



# CABLENET

## 2023 Product Guide

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Network Patch Leads | Copper Networking | Fibre Networking | Power Leads & PDUs | Computer Cables  
AV & Security | Intelligent Power & Active Communications | DataCentre Products



**NEXT DAY DELIVERY** on stock items ordered before 5pm Monday-Thursday  
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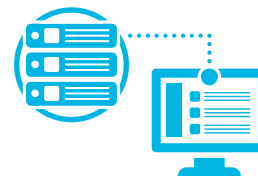
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## Credit Card

We are pleased to accept account payments by credit/debit cards.



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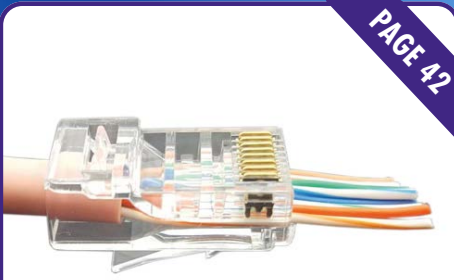
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Please call our sales team on  
**01276 405300**  
for more information or  
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the full range:  
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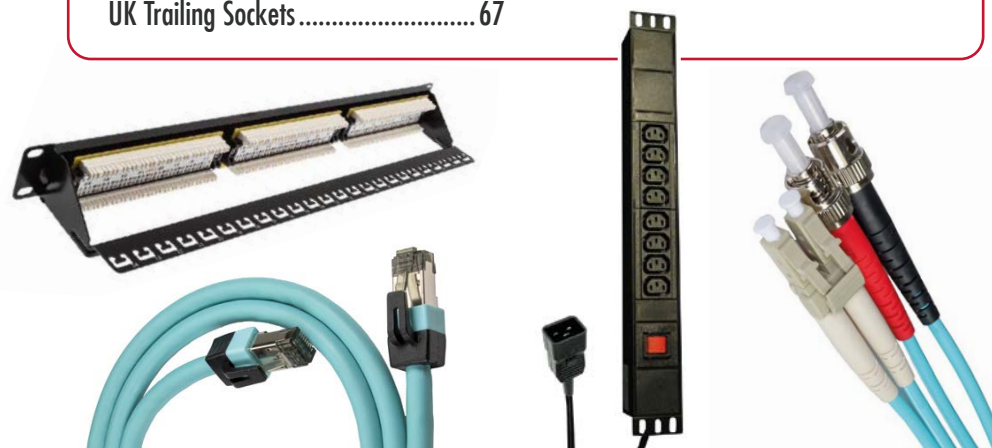
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NETWORK PATCH LEADS  
TECH TERMS

# Network Patch Leads Facts

Ethernet cables, Network cables, Category cables and Patch cables are generally all the same thing. Also the terms “patch cable” and “patch cord” are generally synonymous. We refer to them as Patch Leads. All are used on LANs design around the Category 5, 5e, 6 or 6a patch cable international specifications with varying network speeds. The selection of the appropriate patch cable for the intended network application and environment is very important to the performance of the entire network.

Patch Leads are critical to the operation of Networks and allow system performance to operate at the intended high speeds and bandwidth. A patch cable connects two electronic or optical devices to each other for signal routing. This is usually for network applications, to “patch” a signal from one hub, switch, or router to another hub, switch, or router are used to connect equipment in computer bays or racks, or to connect peripheral devices to the computer. As network cables are used for connecting a variety of network elements from Ethernet switches and Ethernet routers to computers, servers and other network items - if there is an Ethernet interface, they can be connected using Ethernet cables.

Patch leads have twisted wire pairs within an overall patch lead. Twisting the wires together enables the currents to balance, i.e. in one wire the current is moving in one direction, and in the other wire of the pair the current is going in the other, enabling the overall fields around the twisted pair to cancel. In this way, data can be transmitted over considerable lengths without the need for undue precautions. The number of twisted per unit length is arranged to be different for each pair - the rate being based on prime numbers so that no two twists ever align and all four twisted pairs are layer up with difference Twisted lengths .This reduces crosstalk within the cable. The terminations can then be made to the required connector using a crimp tool.

Early network cables were unshielded, but as data speeds increased shielded versions were introduced to improve performance. For example, an unshielded twisted pair (UTP) cable may be satisfactory but a shielded cable is needed for Category 6a performance and is also more suitable for longer runs or where the cable passes through areas of high electrical noise. There are different methods that can be used for shielding Ethernet cables. The most common is to place a shield around each twisted pair. This not only provides shielding for the cable externally, but also reduces crosstalk between the internal twisted pairs as well.



## Cable Constructions

Copper cables used for structured cabling have 4 twisted pairs of wires but there are a number of different types of construction:

The ISO/IEC 11801 standard defines the different types of cable screen constructions as *X/YTP*, where *X* is the type of overall screen, *Y* is the type of screen around the twisted pairs and *TP* stands for *Twisted Pair*.

Some examples of typical cable constructions can be seen in the diagram to the right.

**X can be:**

- U for Unscreened
- F for Foil Screened
- S for Braid Screen

**Y can be:**

- U for Unscreened
- F for Foil Screened

## Categories & Classes

Component		Link /Channel		Frequency	Application
TIA	ISO/EN	TIA	ISO/EN		
Cat 5e	Cat 5e	Cat 5e	Class D	100 MHz	1G Base-T
Cat 6	Cat 6	Cat 6	Class E	250 MHz	1G Base-T
Cat 6A	Cat 6 <sub>A</sub>	Cat 6A	Class E <sub>A</sub>	500 MHz	10G Base-T
	Cat 7		Class F	600 MHz	10G Base-T
	Cat 7 <sub>A</sub>		Class F <sub>A</sub>	1000 MHz	10G Base-T
	Cat8		Class F <sub>A</sub>	2000 MHz	up to 40G Base-T

**Cat-5e:** This cable is defined in TIA/EIA-568 and has a slightly higher frequency specification than Cat-5 and can be used for 100Base-T and 1000Base-t (Gigabit Ethernet).

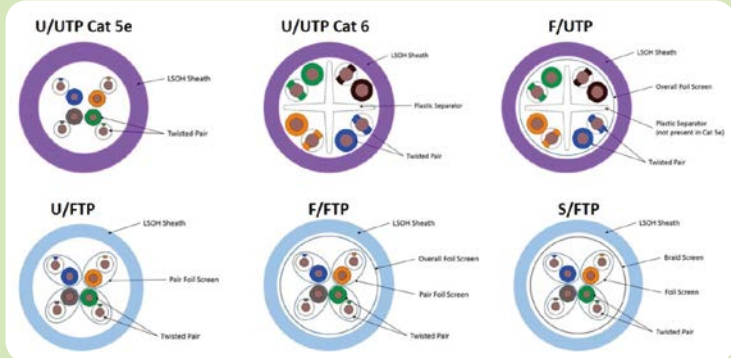
**Cat-6:** This cable is defined in TIA/EIA-568-B and provides a significant improvement in performance over Cat5 and Cat 5e. During manufacture Cat 6 cables are more tightly wound than either Cat 5 or Cat 5e and can support speeds up to 10Gbps.

The Cat 6 Ethernet cables generally have 2+ twists per cm and some may include a nylon spline to reduce crosstalk, although this is not actually required by the standard.

**Cat-6a:** The “a” in Cat 6a stands for “Augmented”. The Cat 6a cables are able to support twice the maximum bandwidth, and are capable of maintaining higher transmission speeds over longer network cable lengths. Cat 6a cables utilise shielded to eliminate crosstalk for today’s network applications and higher speed protocols such as 10GBASE-T.

**Cat-7:** This is defined by ISO/IEC 11801 Class F cabling. It comprises four individually shielded pairs inside an overall shield. It is aimed at applications where transmission of frequencies up to 600 Mbps is required.

**Cat-8:** These cables are designed for use in High performance 25 /40 GBASE-T Ethernet Networking applications up to a maximum length of 30M.





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## A GUIDE TO OUR PART CODES

Cable Type		Colour	Length
60	Cat6 U/UTP Flush Moulded	0 Pink	003 0.3m
62	Cat6 U/UTP Xover(4PR)	1 Grey	005 0.5m
65	Cat6a S/FTP LSOH Snagless	2 Red	010 1.0m
67	Cat5e U/UTP Flush Moulded	3 Green	015 1.5m
68	Cat6 F/UTP LSOH Snagless	4 Blue	020 2.0m
B67	Cat5e U/UTP Flush Moulded Brown	5 Yellow	025 2.5m
L60	Cat6 U/UTP LSOH Snagless	6 Black	030 3.0m
L67	Cat5e U/UTP LSOH Snagless	7 Violet	040 4.0m
SL65	Cat6a U/FTP Slim	8 White	050 5.0m
PE67	Cat5e U/UTP External PE	9 Orange	060 6.0m
PE60	Cat6 U/UTP External PE	0 Brown	070 7.0m
PE65	Cat6a U/UTP External PE		075 8.0m
			100 10m
			150 15m
			200 20m
			250 25m
			300 30m



# Network Patch Leads



## PART NO DESCRIPTION

### Cat8 Patch Leads

#### ULTIMATE 40G Cat8 5G S/FTP LSOH 24AWG Dual Colour Patch Leads AQUA

88-AQ003	0.3m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ005	0.5m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ010	1m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ015	1.5m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ020	2m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ030	3m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ050	5m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead
88-AQ100	10m <b>ULTIMATE</b> 40G Cat8 <b>5G</b> Aqua S/FTP LSOH 24AWG Snagless Patch Lead



### Cat6a Patch Leads

#### Cat6a S/FTP (Shielded) Patch Leads

##### Cat6a S/FTP (Shielded) Patch Leads PINK

65-0003	0.3m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0005	0.5m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0010	1m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0015	1.5m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0020	2m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0030	3m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0050	5m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0100	10m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0150	15m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-0200	20m Cat6a RJ45 Pink S/FTP LSOH 26AWG Snagless Booted Patch Lead



## PART NO DESCRIPTION

### Cat6a S/FTP (Shielded) Patch Leads GREY

65-1003	0.3m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1005	0.5m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1010	1m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1015	1.5m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1020	2m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1030	3m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1050	5m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1100	10m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1150	15m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-1200	20m Cat6a RJ45 Grey S/FTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6a S/FTP (Shielded) Patch Leads RED

65-2003	0.3m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2005	0.5m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2010	1m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2015	1.5m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2020	2m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2030	3m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2050	5m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2100	10m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2150	15m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-2200	20m Cat6a RJ45 Red S/FTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6a S/FTP (Shielded) Patch Leads GREEN

65-3003	0.3m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3005	0.5m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead





## Cat6a S/FTP (Shielded)

## Network Patch Leads

## PART NO DESCRIPTION

## Cat6a Patch Leads &gt; Cat6a S/FTP (Shielded) Patch Leads

65-3010	1m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3015	1.5m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3020	2m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3030	3m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3050	5m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3100	10m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3150	15m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-3200	20m Cat6a RJ45 Green S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads BLUE

65-4003	0.3m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4005	0.5m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4010	1m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4015	1.5m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4020	2m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4030	3m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4050	5m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4100	10m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4150	15m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-4200	20m Cat6a RJ45 Blue S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads YELLOW

65-5003	0.3m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5005	0.5m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5010	1m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5015	1.5m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5020	2m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5030	3m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5050	5m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5100	10m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5150	15m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-5200	20m Cat6a RJ45 Yellow S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads BLACK

65-6003	0.3m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6005	0.5m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead

## PART NO DESCRIPTION

65-6010	1m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6015	1.5m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6020	2m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6030	3m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6050	5m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6100	10m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6150	15m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-6200	20m Cat6a RJ45 Black S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads VIOLET

65-7003	0.3m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7005	0.5m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7010	1m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7015	1.5m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7020	2m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7030	3m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7050	5m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7100	10m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7150	15m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-7200	20m Cat6a RJ45 Violet S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads WHITE

65-8003	0.3m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8005	0.5m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8010	1m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8015	1.5m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8020	2m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8030	3m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8050	5m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8100	10m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8150	15m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-8200	20m Cat6a RJ45 White S/FTP LSOH 26AWG Snagless Booted Patch Lead

## Cat6a S/FTP (Shielded) Patch Leads ORANGE

65-9003	0.3m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9005	0.5m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead

# Network Patch Leads

## Cat6a S/FTP (Shielded) | Cat6a U/FTP Slimline



PART NO	DESCRIPTION
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### Cat6a Patch Leads > Cat6a S/FTP (Shielded) Patch Leads

65-9010	1m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9015	1.5m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9020	2m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9030	3m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9050	5m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9100	10m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9150	15m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead
65-9200	20m Cat6a RJ45 Orange S/FTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6a U/FTP Slimline Patch Leads

#### Cat6a U/FTP Slimline Patch Leads GREY

SL65-1002	0.25m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1003	0.3m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1005	0.5m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1010	1m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1015	1.5m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1020	2m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1025	2.5m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1030	3m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1040	4m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-1050	5m Cat6a RJ45 Grey U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

#### Cat6a U/FTP Slimline Patch Leads RED

SL65-2002	0.25m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2003	0.3m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2005	0.5m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2010	1m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2015	1.5m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2020	2m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2025	2.5m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2030	3m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2040	4m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-2050	5m Cat6a RJ45 Red U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead



PART NO	DESCRIPTION
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### Cat6a U/FTP Slimline Patch Leads GREEN

SL65-3002	0.25m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3003	0.3m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3005	0.5m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3010	1m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3015	1.5m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3020	2m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3025	2.5m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3030	3m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3040	4m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-3050	5m Cat6a RJ45 Green U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

### Cat6a U/FTP Slimline Patch Leads BLUE

SL65-4002	0.25m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4003	0.3m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4005	0.5m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4010	1m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4015	1.5m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4020	2m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4025	2.5m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4030	3m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4040	4m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-4050	5m Cat6a RJ45 Blue U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead



### Cat6a U/FTP Slimline Patch Leads YELLOW

SL65-5002	0.25m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5003	0.3m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5005	0.5m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5010	1m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5015	1.5m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5020	2m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5025	2.5m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5030	3m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5040	4m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-5050	5m Cat6a RJ45 Yellow U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead



## Cat6a U/FTP Slimline | Cat6a F/FTP PE External

## Network Patch Leads

## PART NO DESCRIPTION

Cat6a U/FTP Slimline Patch Leads **BLACK**

SL65-6002	0.25m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6003	0.3m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6005	0.5m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6010	1m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6015	1.5m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6020	2m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6025	2.5m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6030	3m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6040	4m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6050	5m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6070	7m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-6100	10m Cat6a RJ45 Black U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

Cat6a U/FTP Slimline Patch Leads **VIOLET**

SL65-7002	0.25m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7003	0.3m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7005	0.5m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7010	1m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7015	1.5m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7020	2m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7025	2.5m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7030	3m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7040	4m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-7050	5m Cat6a RJ45 Violet U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

Cat6a U/FTP Slimline Patch Leads **WHITE**

SL65-8002	0.25m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8003	0.3m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8005	0.5m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8010	1m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8015	1.5m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8020	2m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8025	2.5m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8030	3m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8040	4m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-8050	5m Cat6a RJ45 White U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

## PART NO DESCRIPTION

Cat6a U/FTP Slimline Patch Leads **ORANGE**

SL65-9002	0.25m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9003	0.3m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9005	0.5m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9010	1m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9015	1.5m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9020	2m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9025	2.5m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9030	3m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9040	4m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead
SL65-9050	5m Cat6a RJ45 Orange U/FTP LSOH 30AWG Slim Snagless Booted Patch Lead

## Cat6a F/FTP PE External Patch Leads

Cat6a F/FTP PE External Patch Leads **BLACK**

PE65-6005	0.5m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6010	1m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6020	2m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6030	3m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6050	5m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6100	10m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6150	15m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6200	20m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6250	25m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6300	30m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6400	40m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6500	50m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6600	60m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6700	70m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead
PE65-6750	75m Cat6a RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead

**Cat7 (PIMF) Leads are available upon request.**

*Please contact our sales team for more details.*



# Network Patch Leads



## PART NO DESCRIPTION

### Cat6 Patch Leads

#### Cat6 U/UTP LSOH Patch Leads

##### Cat6 U/UTP LSOH Patch Leads PINK

L60-0003	0.3m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0005	0.5m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0010	1m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0015	1.5m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0020	2m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0030	3m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0040	4m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0050	5m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0080	8m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0100	10m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0150	15m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-0200	20m Cat6 RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead

##### Cat6 U/UTP LSOH Patch Leads GREY

L60-1002	0.2m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1003	0.3m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1005	0.5m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1010	1m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1015	1.5m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1020	2m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1025	2.5m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1030	3m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1040	4m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1050	5m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1080	8m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1100	10m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1150	15m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-1200	20m Cat6 RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead

##### Cat6 U/UTP LSOH Patch Leads RED

L60-2003	0.3m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2005	0.5m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2010	1m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead



## Cat6 U/UTP LSOH



## PART NO DESCRIPTION

L60-2015	1.5m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2020	2m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2025	2.5m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2030	3m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2040	4m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2050	5m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2080	8m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2100	10m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2150	15m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-2200	20m Cat6 RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead

##### Cat6 U/UTP LSOH Patch Leads GREEN

L60-3003	0.3m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3005	0.5m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3010	1m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3015	1.5m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3020	2m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3025	2.5m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3030	3m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3040	4m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3050	5m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3080	8m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3100	10m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3150	15m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-3200	20m Cat6 RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead

##### Cat6 U/UTP LSOH Patch Leads BLUE

L60-4002	0.2m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4003	0.3m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4005	0.5m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4010	1m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4015	1.5m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4020	2m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4025	2.5m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4030	3m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4040	4m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead



## Cat6 U/UTP LSOH

## Network Patch Leads

## PART NO DESCRIPTION

## Cat6 Patch Leads &gt; Cat6 U/UTP LSOH Patch Leads

L60-4050	5m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4080	8m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4100	10m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4150	15m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-4200	20m Cat6 RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead

Cat6 U/UTP LSOH Patch Leads **YELLOW**

L60-5003	0.3m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5005	0.5m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5010	1m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5015	1.5m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5020	2m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5025	2.5m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5030	3m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5040	4m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5050	5m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5080	8m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5100	10m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5150	15m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-5200	20m Cat6 RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead

Cat6 U/UTP LSOH Patch Leads **BLACK**

L60-6003	0.3m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6005	0.5m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6010	1m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6015	1.5m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6020	2m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6030	3m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6040	4m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6050	5m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6080	8m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6100	10m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6150	15m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-6200	20m Cat6 RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead

## PART NO DESCRIPTION

Cat6 U/UTP LSOH Patch Leads **VIOLET**

L60-7003	0.3m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7005	0.5m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7010	1m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7015	1.5m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7020	2m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7030	3m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7040	4m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7050	5m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7080	8m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7100	10m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7150	15m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-7200	20m Cat6 RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead

Cat6 U/UTP LSOH Patch Leads **WHITE**

L60-8003	0.3m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8005	0.5m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8010	1m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8015	1.5m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8020	2m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8030	3m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8040	4m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8050	5m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8080	8m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8100	10m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8150	15m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-8200	20m Cat6 RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead

Cat6 U/UTP LSOH Patch Leads **ORANGE**

L60-9003	0.3m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9005	0.5m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9010	1m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9015	1.5m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9020	2m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9030	3m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9040	4m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead

# Network Patch Leads

## Cat6 U/UTP LSOH | Cat6 U/UTP PVC



### PART NO DESCRIPTION

#### Cat6 Patch Leads > Cat6 U/UTP LSOH Patch Leads

L60-9050	5m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9080	8m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9100	10m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9150	15m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L60-9200	20m Cat6 RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead

#### Cat6 U/UTP PVC Patch Leads

##### Cat6 U/UTP PVC Patch Leads PINK

60-0003	0.3m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0005	0.5m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0010	1m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0015	1.5m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0020	2m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0030	3m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0040	4m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0050	5m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0080	8m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0100	10m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0150	15m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0200	20m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-0300	30m Cat6 RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

##### Cat6 U/UTP PVC Patch Leads GREY

60-1003	0.3m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1005	0.5m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1007	0.75m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1010	1m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1015	1.5m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1020	2m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1025	2.5m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1030	3m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1040	4m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1050	5m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1080	8m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1100	10m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1150	15m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



### PART NO DESCRIPTION

60-1200	20m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-1300	30m Cat6 RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

##### Cat6 U/UTP PVC Patch Leads RED

60-2003	0.3m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2005	0.5m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2010	1m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2015	1.5m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2020	2m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2025	2.5m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2030	3m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2040	4m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2050	5m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2080	8m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2100	10m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2150	15m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2200	20m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-2300	30m Cat6 RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

##### Cat6 U/UTP PVC Patch Leads GREEN

60-3003	0.3m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3005	0.5m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3010	1m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3015	1.5m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3020	2m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3025	2.5m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3030	3m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3040	4m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3050	5m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3080	8m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3100	10m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3150	15m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3200	20m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-3300	30m Cat6 RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

##### Cat6 U/UTP PVC Patch Leads BLUE

60-4003	0.3m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4005	0.5m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead





## Cat6 U/UTP PVC

## Network Patch Leads

## PART NO DESCRIPTION

## Cat6 Patch Leads &gt; Cat6 U/UTP PVC Patch Leads

60-4010	1m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4015	1.5m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4020	2m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4025	2.5m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4030	3m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4040	4m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4050	5m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4080	8m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4100	10m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4150	15m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4200	20m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-4300	30m Cat6 RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

Cat6 U/UTP PVC Patch Leads **YELLOW**

60-5003	0.3m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5005	0.5m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5010	1m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5015	1.5m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5020	2m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5025	2.5m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5030	3m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5040	4m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5050	5m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5080	8m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5100	10m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5150	15m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5200	20m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-5300	30m Cat6 RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

Cat6 U/UTP PVC Patch Leads **BLACK**

60-6003	0.3m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6005	0.5m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6010	1m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6015	1.5m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6020	2m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

## PART NO DESCRIPTION

60-6030	3m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6040	4m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6050	5m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6080	8m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6100	10m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6150	15m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6200	20m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-6300	30m Cat6 RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

Cat6 U/UTP PVC Patch Leads **VIOLET**

60-7003	0.3m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7005	0.5m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7010	1m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7015	1.5m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7020	2m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7030	3m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7040	4m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7050	5m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7080	8m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7100	10m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7150	15m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7200	20m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-7300	30m Cat6 RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

Cat6 U/UTP PVC Patch Leads **WHITE**

60-8003	0.3m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8005	0.5m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8010	1m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8015	1.5m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8020	2m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8030	3m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8040	4m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8050	5m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8080	8m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8100	10m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8150	15m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

# Network Patch Leads

Cat6 U/UTP PVC | Cat6 F/UTP (Shielded) | Cat6 U/UTP PE External



## PART NO DESCRIPTION

### Cat6 Patch Leads > Cat6 U/UTP PVC Patch Leads

60-8200	20m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-8300	30m Cat6 RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

### Cat6 U/UTP PVC Patch Leads ORANGE

60-9003	0.3m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9005	0.5m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9010	1m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9015	1.5m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9020	2m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9030	3m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9040	4m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9050	5m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9080	8m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9100	10m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9150	15m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9200	20m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
60-9300	30m Cat6 RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



### Cat6 U/UTP Crossover Patch Leads available

Please contact our sales team for more details.

### Cat6 F/UTP (Shielded) Patch Leads

#### Cat6 F/UTP (Shielded) Patch Leads GREY

68-1005	0.5m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1010	1m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1020	2m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1030	3m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1050	5m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1100	10m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-1200	20m Cat6 RJ45 Grey F/UTP LSOH 26AWG Snagless Booted Patch Lead

#### Cat6 F/UTP (Shielded) Patch Leads RED

68-2005	0.5m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-2010	1m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead



## PART NO DESCRIPTION

68-2020	2m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-2030	3m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-2050	5m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-2100	10m Cat6 RJ45 Red F/UTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6 F/UTP (Shielded) Patch Leads GREEN

68-3005	0.5m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3010	1m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3020	2m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3030	3m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3050	5m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3100	10m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-3200	20m Cat6 RJ45 Green F/UTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6 F/UTP (Shielded) Patch Leads BLUE

68-4005	0.5m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4010	1m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4020	2m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4030	3m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4050	5m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4100	10m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-4200	20m Cat6 RJ45 Blue F/UTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6 F/UTP (Shielded) Patch Leads YELLOW

68-5005	0.5m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-5010	1m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-5020	2m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-5030	3m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-5050	5m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead
68-5100	10m Cat6 RJ45 Yellow F/UTP LSOH 26AWG Snagless Booted Patch Lead

### Cat6 U/UTP PE External Patch Leads

#### Cat6 U/UTP PE External Patch Leads BLACK

PE60-6005	0.5m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6010	1m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6020	2m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6030	3m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6050	5m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead



## Cat6 U/UTP PE External | Cat5e U/UTP LSOH

## Network Patch Leads



PART NO	DESCRIPTION
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**Cat6 Patch Leads > Cat6 U/UTP PE External Patch Leads**

PE60-6100	10m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6150	15m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6200	20m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6250	25m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6300	30m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6400	40m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6500	50m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6600	60m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6700	70m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE60-6750	75m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead

**Cat5e Patch Leads****Cat5e U/UTP LSOH Patch Leads****Cat5e U/UTP LSOH Patch Leads PINK**

L67-0005	0.5m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0010	1m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0020	2m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0030	3m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0040	4m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0050	5m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0080	8m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-0100	10m Cat5e RJ45 Pink U/UTP LSOH 24AWG Snagless Booted Patch Lead

**Cat5e U/UTP LSOH Patch Leads GREY**

L67-1005	0.5m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1010	1m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1020	2m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1025	2.5m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1030	3m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1040	4m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1050	5m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1080	8m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-1100	10m Cat5e RJ45 Grey U/UTP LSOH 24AWG Snagless Booted Patch Lead



PART NO	DESCRIPTION
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**Cat5e U/UTP LSOH Patch Leads RED**

L67-2005	0.5m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2010	1m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2020	2m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2025	2.5m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2030	3m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2040	4m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2050	5m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2080	8m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-2100	10m Cat5e RJ45 Red U/UTP LSOH 24AWG Snagless Booted Patch Lead

**Cat5e U/UTP LSOH Patch Leads GREEN**

L67-3005	0.5m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3010	1m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3020	2m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3025	2.5m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3030	3m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3040	4m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3050	5m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3080	8m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-3100	10m Cat5e RJ45 Green U/UTP LSOH 24AWG Snagless Booted Patch Lead

**Cat5e U/UTP LSOH Patch Leads BLUE**

L67-4005	0.5m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4010	1m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4020	2m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4025	2.5m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4030	3m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4040	4m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4050	5m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4080	8m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-4100	10m Cat5e RJ45 Blue U/UTP LSOH 24AWG Snagless Booted Patch Lead

**Cat5e U/UTP LSOH Patch Leads YELLOW**

L67-5005	0.5m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5010	1m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5020	2m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead





# Network Patch Leads

## Cat5e U/UTP LSOH | Cat5e U/UTP PVC



### PART NO DESCRIPTION

#### Cat5e Patch Leads > Cat5e U/UTP LSOH Patch Leads

L67-5025	2.5m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5030	3m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5040	4m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5050	5m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5080	8m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-5100	10m Cat5e RJ45 Yellow U/UTP LSOH 24AWG Snagless Booted Patch Lead

#### Cat5e U/UTP LSOH Patch Leads **BLACK**

L67-6005	0.5m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6010	1m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6020	2m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6030	3m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6040	4m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6050	5m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6080	8m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-6100	10m Cat5e RJ45 Black U/UTP LSOH 24AWG Snagless Booted Patch Lead

#### Cat5e U/UTP LSOH Patch Leads **VIOLET**

L67-7005	0.5m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7010	1m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7020	2m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7030	3m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7040	4m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7050	5m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7080	8m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-7100	10m Cat5e RJ45 Violet U/UTP LSOH 24AWG Snagless Booted Patch Lead

#### Cat5e U/UTP LSOH Patch Leads **WHITE**

L67-8005	0.5m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8010	1m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8020	2m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8030	3m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8040	4m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8050	5m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8080	8m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-8100	10m Cat5e RJ45 White U/UTP LSOH 24AWG Snagless Booted Patch Lead



### PART NO DESCRIPTION

#### Cat5e U/UTP LSOH Patch Leads **ORANGE**

L67-9005	0.5m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9010	1m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9020	2m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9030	3m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9040	4m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9050	5m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9080	8m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead
L67-9100	10m Cat5e RJ45 Orange U/UTP LSOH 24AWG Snagless Booted Patch Lead

#### Cat5e U/UTP PVC Patch Leads

#### Cat5e U/UTP PVC Patch Leads **PINK**

67-0003	0.3m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0005	0.5m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0010	1m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0015	1.5m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0020	2m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0030	3m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0040	4m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0050	5m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0060	6m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0070	7m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0075	8m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0100	10m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0150	15m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0200	20m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-0300	30m Cat5e RJ45 Pink U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

#### Cat5e U/UTP PVC Patch Leads **GREY**

67-1003	0.3m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1005	0.5m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1010	1m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1015	1.5m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1020	2m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1025	2.5m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



## Cat5e U/UTP PVC

## Network Patch Leads

## PART NO DESCRIPTION

## Cat5e Patch Leads &gt; Cat5e U/UTP PVC Patch Leads

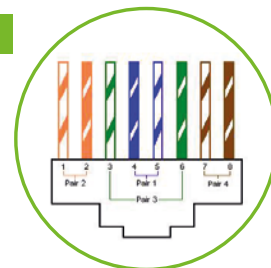
67-1030	3m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1040	4m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1050	5m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1060	6m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1070	7m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1075	8m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1100	10m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1150	15m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1200	20m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1250	25m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-1300	30m Cat5e RJ45 Grey U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

## Cat5e U/UTP PVC Patch Leads RED

67-2003	0.3m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2005	0.5m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2010	1m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2015	1.5m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2020	2m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2025	2.5m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2030	3m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2040	4m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2050	5m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2060	6m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2070	7m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2075	8m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2100	10m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2150	15m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2200	20m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-2300	30m Cat5e RJ45 Red U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

## Cat5e U/UTP PVC Patch Leads GREEN

67-3003	0.3m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3005	0.5m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3010	1m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3015	1.5m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



## PART NO DESCRIPTION

67-3020	2m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3025	2.5m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3030	3m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3040	4m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3050	5m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3060	6m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3070	7m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3100	10m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3150	15m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3200	20m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-3300	30m Cat5e RJ45 Green U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

## Cat5e U/UTP PVC Patch Leads BLUE

67-4003	0.3m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4005	0.5m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4010	1m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4015	1.5m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4020	2m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4025	2.5m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4030	3m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4040	4m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4050	5m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4060	6m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4070	7m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4075	8m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4100	10m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4150	15m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4200	20m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-4300	30m Cat5e RJ45 Blue U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

## Cat5e U/UTP PVC Patch Leads YELLOW

67-5003	0.3m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5005	0.5m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5010	1m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5015	1.5m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5020	2m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

# Network Patch Leads

## Cat5e U/UTP PVC



PART NO	DESCRIPTION
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### Cat5e Patch Leads > Cat5e U/UTP PVC Patch Leads

67-5025	2.5m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5030	3m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5040	4m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5050	5m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5060	6m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5070	7m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5075	8m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5100	10m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5150	15m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5200	20m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-5300	30m Cat5e RJ45 Yellow U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

### Cat5e U/UTP PVC Patch Leads **BLACK**

67-6002	0.25m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6003	0.3m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6005	0.5m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6010	1m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6015	1.5m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6020	2m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6030	3m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6040	4m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6050	5m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6060	6m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6070	7m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6075	8m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6100	10m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6150	15m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6200	20m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-6300	30m Cat5e RJ45 Black U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

### Cat5e U/UTP PVC Patch Leads **VIOLET**

67-7003	0.3m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7005	0.5m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7010	1m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7015	1.5m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7020	2m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



PART NO	DESCRIPTION
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67-7030	3m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7040	4m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7050	5m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7060	6m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7070	7m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7075	8m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7100	10m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7150	15m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7200	20m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-7300	30m Cat5e RJ45 Violet U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

### Cat5e U/UTP PVC Patch Leads **WHITE**

67-8003	0.3m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8005	0.5m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8010	1m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8015	1.5m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8020	2m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8030	3m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8040	4m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8050	5m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8060	6m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8070	7m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8075	8m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8100	10m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8150	15m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8200	20m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-8300	30m Cat5e RJ45 White U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

### Cat5e U/UTP PVC Patch Leads **ORANGE**

67-9003	0.3m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9005	0.5m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9010	1m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9015	1.5m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9020	2m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9030	3m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9040	4m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9050	5m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead



## Cat5e U/UTP PVC | Cat5e U/UTP PE External | IP67 XXtreme Network Patch Leads

## Network Patch Leads

## PART NO DESCRIPTION

**Cat5e Patch Leads > Cat5e U/UTP PVC Patch Leads**

67-9060	6m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9070	7m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9075	8m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9100	10m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9150	15m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9200	20m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
67-9300	30m Cat5e RJ45 Orange U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

**Cat5e U/UTP PVC Patch Leads BROWN**

B67-0005	0.5m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0010	1m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0015	1.5m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0020	2m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0030	3m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0050	5m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0100	10m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead
B67-0200	20m Cat5e RJ45 Brown U/UTP PVC 24AWG Flush Moulded Booted Patch Lead

**Cat5e U/UTP PE External Patch Leads****Cat5e U/UTP PE External Patch Leads BLACK**

PE67-6005	0.5m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6010	1m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6020	2m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6030	3m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6050	5m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6100	10m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6150	15m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6200	20m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6250	25m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6300	30m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6350	35m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6400	40m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6450	45m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead

## PART NO DESCRIPTION

PE67-6500	50m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6600	60m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6700	70m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead
PE67-6750	75m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead

**IP67 XXtreme Network Patch Leads**

- These Ruggedized modular patch cords and outlets provide an IP67-rated seal, protecting plug and outlet contacts from dust, moisture, vibration and common cleaning chemicals.
- Made to order, these cables are ideal for protecting valuable connections in harsh environments.
- Wiring configuration to 568-B.

**Cat6a F/FTP PE External Patch Leads**

XE65-6010	1m Cat6a RJ45 Black F/FTP IP67 XXtreme External Flush Moulded Solid Patch Lead
XE65-6100	10m Cat6a RJ45 Black F/FTP IP67 XXtreme External Flush Moulded Solid Patch Lead

**Cat6 U/UTP PE External Patch Leads**

XE60-6010	1m Cat6 RJ45 Black U/UTP IP67 XXtreme External Flush Moulded Solid Patch Lead
XE60-6100	10m Cat6 RJ45 Black U/UTP IP67 XXtreme External Flush Moulded Solid Patch Lead

**Cat5e U/UTP PE External Patch Leads**

XE67-6010	1m Cat5e RJ45 Black U/UTP IP67 XXtreme External Flush Moulded Solid Patch Lead
XE67-6100	10m Cat5e RJ45 Black U/UTP IP67 XXtreme External Flush Moulded Solid Patch Lead

*These cables are made to order, please contact our sales team for more information.*

# Network Patch Leads

## <sup>TM</sup> PatchSee<sup>®</sup> Optical Technology

**Cablenet's PatchSee is a solution that is unique, exclusive and efficient**

Given these needs, the PatchSee solution was designed from the outset to meet the expectations of network designers and managers in terms of efficiency, performance and security. With PatchSee, your network management benefits from an exclusive technology that lets you identify data connections and strategic links quickly and efficiently.

Today, over 7 million PatchSee Optical Technology products are up and running around the world, proving both the market need and PatchSee performance in many fields. Compatible with all existing network hardware, PatchSee offers unparalleled ease-of-use, security and speed during maintenance and troubleshooting operations for data centers, computer rooms, network racks and more.



## PatchSee ThinPatch Cat6a



PART NO	DESCRIPTION
<b>ThinPatch Cat6a</b>	
<b>ThinPATCH U/UTP Cat6a Patch Lead</b>	
PSPTPU-2	PatchSee ThinPATCH 0.6m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-3	PatchSee ThinPATCH 0.9m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-4	PatchSee ThinPATCH 1.2m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-5	PatchSee ThinPATCH 1.5m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-6	PatchSee ThinPATCH 1.8m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-7	PatchSee ThinPATCH 2.1m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-8	PatchSee ThinPATCH 2.4m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-9	PatchSee ThinPATCH 2.7m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-10	PatchSee ThinPATCH 3.1m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-13	PatchSee ThinPATCH 4m Cat6a U/UTP RJ45 Patch Lead
PSPTPU-16	PatchSee ThinPATCH 4.9m Cat6a U/UTP RJ45 Patch Lead
<b>ThinPATCH U/FTP Cat6a Patch Lead</b>	
PSPTPF-2	PatchSee ThinPATCH 0.6m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-3	PatchSee ThinPATCH 0.9m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-4	PatchSee ThinPATCH 1.2m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-5	PatchSee ThinPATCH 1.5m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-6	PatchSee ThinPATCH 1.8m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-7	PatchSee ThinPATCH 2.1m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-8	PatchSee ThinPATCH 2.4m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-9	PatchSee ThinPATCH 2.7m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-10	PatchSee ThinPATCH 3.1m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-13	PatchSee ThinPATCH 4m Cat6a U/FTP RJ45 Patch Lead
PSPTPF-16	PatchSee ThinPATCH 4.9m Cat6a U/FTP RJ45 Patch Lead

## PART NO DESCRIPTION

### PatchSee Cat6a

#### DirectPatch U/UTP Patch Lead PVC

PSPCI6-U-2	PatchSee DirectPatch 0.6m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-3	PatchSee DirectPatch 0.9m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-4	PatchSee DirectPatch 1.2m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-5	PatchSee DirectPatch 1.5m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-6	PatchSee DirectPatch 1.8m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-7	PatchSee DirectPatch 2.1m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-9	PatchSee DirectPatch 2.7m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-10	PatchSee DirectPatch 3.1m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-U-16	PatchSee DirectPatch 4.9m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-DPU-20	PatchSee DirectPatch 6.1m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-DPU-32	PatchSee DirectPatch 9.7m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-DPU-40	PatchSee DirectPatch 12.2m Cat6a U/UTP PVC Intelligent Patch Lead
PSPCI6-DPU-50	PatchSee DirectPatch 15.2m Cat6a U/UTP PVC Intelligent Patch Lead

#### DirectPatch U/FTP Patch Lead LSOH

PSPCI6F-3	PatchSee DirectPatch 0.9m Cat6a U/FTP LSOH Intelligent Patch Lead
PSPCI6F-4	PatchSee DirectPatch 1.2m Cat6a U/FTP LSOH Intelligent Patch Lead
PSPCI6F-6	PatchSee DirectPatch 1.8m Cat6a U/FTP LSOH Intelligent Patch Lead
PSPCI6F-10	PatchSee DirectPatch 3.1m Cat6a U/FTP LSOH Intelligent Patch Lead
PSPCI6F-16	PatchSee DirectPatch 4.9m Cat6a U/FTP LSOH Intelligent Patch Lead

### PatchSee Cat6

#### Class6Patch U/UTP Patch Lead PVC

PS6U-2	PatchSee Class6Patch 0.6m Cat6 U/UTP PVC Intelligent Patch Lead
PS6U-4	PatchSee Class6Patch 1.2m Cat6 U/UTP PVC Intelligent Patch Lead
PS6U-5	PatchSee Class6Patch 1.5m Cat6 U/UTP PVC Intelligent Patch Lead
PS6U-7	PatchSee Class6Patch 2.1m Cat6 U/UTP PVC Intelligent Patch Lead
PS6U-10	PatchSee Class6Patch 3.1m Cat6 U/UTP PVC Intelligent Patch Lead
PS6U-16	PatchSee Class6Patch 4.9m Cat6 U/UTP PVC Intelligent Patch Lead

## PART NO DESCRIPTION

### Class6Patch U/FTP Patch Lead LSOH

PS6F-4	PatchSee Class6Patch 1.2m Cat6 U/FTP LSOH Intelligent Patch Lead
PS6F-7	PatchSee Class6Patch 2.1m Cat6 U/FTP LSOH Intelligent Patch Lead
PS6F-16	PatchSee Class6Patch 4.9m Cat6 U/FTP LSOH Intelligent Patch Lead

### PatchSee Cat5e

#### BasicPatch U/UTP Patch Lead PVC

PSU-2	PatchSee BasicPatch 0.6m Cat5e U/UTP PVC Intelligent Patch Lead
PSU-4	PatchSee BasicPatch 1.2m Cat5e U/UTP PVC Intelligent Patch Lead
PSU-5	PatchSee BasicPatch 1.5m Cat5e U/UTP PVC Intelligent Patch Lead
PSU-7	PatchSee BasicPatch 2.1m Cat5e U/UTP PVC Intelligent Patch Lead
PSU-10	PatchSee BasicPatch 3.1m Cat5e U/UTP PVC Intelligent Patch Lead
PSU-16	PatchSee BasicPatch 4.9m Cat5e U/UTP PVC Intelligent Patch Lead

#### BasicPatch U/FTP Patch Lead LSOH

PSF-2	PatchSee BasicPatch 0.6m Cat5e U/FTP LSOH Intelligent Patch Lead
-------	--

### PatchSee Tools

PSRO-PRO-PL	PatchSee Pro Patchlight Red
PSBL-PRO-PL	PatchSee Pro Patchlight White

### PatchSee Clips

PSFU-PC	PatchSee Purple PatchClip (PK 50)
PSGM-PC	PatchSee Grey PatchClip (PK 50)
PSJA-PC	PatchSee Yellow PatchClip (PK 50)
PSOR-PC	PatchSee Orange PatchClip (PK 50)
PSRF-PC	PatchSee Pink PatchClip (PK 50)
PSRO-PC	PatchSee Red PatchClip (PK 50)
PSDESK-AG-6-U-5	Patchsee Deskpatch 5m U/UTP 10G Apple Green
PSDESK-BW-6-U-5	Patchsee Deskpatch 5m U/UTP 10G Bright White

# Network Patch Leads

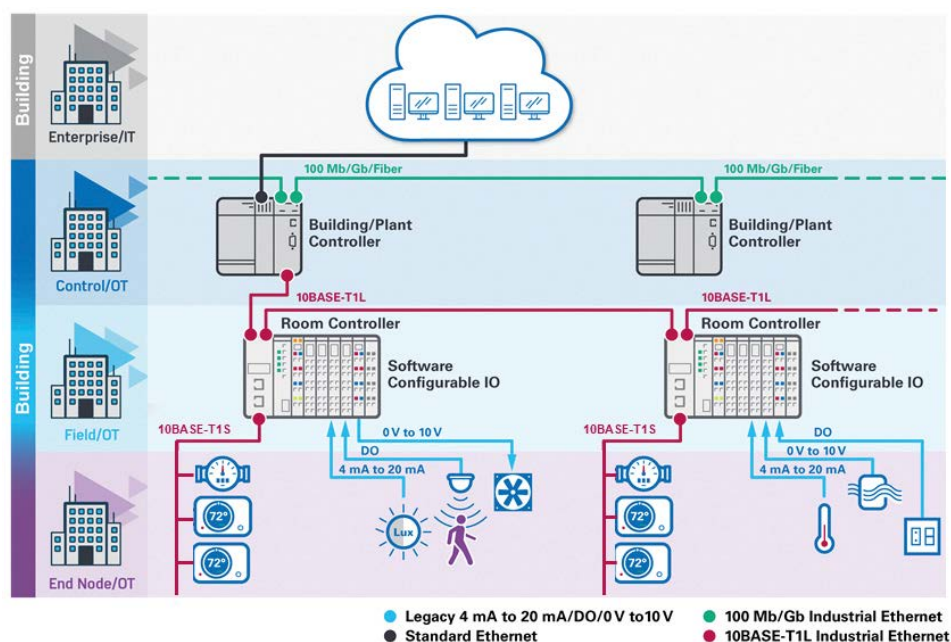
## SPE Single Pair Ethernet

Single pair Ethernet (SPE) utilizes one twisted pair to transmit data at speeds of up to 1 Gbps and deliver up to 50 watts of dc power via Power over Data Lines (PoDL). Single pair Ethernet supports low power and low data over very long distances, up to 1000 meters and higher speeds and higher power up to 40 meters.

One major advantage of deploying single pair Ethernet resides in how the unified communications protocol functions. This allows for the collection and sharing of sensor information. As a result, machine-to-machine communications can manipulate actuators and perform other actions in enterprise buildings and manufacturing facilities.

Through PoDL, SPE delivers continuous, reliable dc power that eliminates batteries and separate powering circuits for the device. In addition, its Ethernet connection offers data security stronger than traditional Wi-Fi or legacy wired communication protocols. And because of a compact footprint that's 25 percent smaller than traditional four pair Ethernet, deploying SPE in retrofit environments is simple and fast.

This does not mean single pair versus four pair Ethernet requires an "either/or" decision. The two wiring options are not mutually exclusive and, in many cases, will coexist in support of multiple applications.



**For more information on SPE cables  
please ask our sales team.**

## SPE Single Pair Ethernet

The IEEE 802.3cg standard offers three implementations:

### 10BASE-T1S:

Built for short distance point-to-point communications (up to at least 25m) and mirrors many fieldbus protocols by providing option of multidrop Ethernet architecture.

### 10BASE-T1L:

supports a 1000 m reach (~3281 ft).

### 10BASE-T1S (Multi-Drop):

supports up to eight nodes.

IEEE 802.3cg	10BASE-T1S (Multi-Drop)	Eight nodes, 25 metres
IEEE 802.3bw	100BASE-T	40 metres
IEE 802.3bu	Power over Data Line (PoDL) PoE for SPE	0.5-52 watts ( <i>multiple classes</i> )

### Transmission Properties

The transmission properties are divided into three categories:

- Category A from 0.1 to 20 MHz
- Category B from 0.1 to 600 MHz
- Category C from 0.1 to 1250 MHz

Category A supports the Base-T1 application from IEEE 802.3cg, Category B the 100/1000 BASE-T1 application from IEEE 802.3bw/bp and Category C the MultiGig 2.5G BASE-T1 application according to IEEE 802.3ch.

Category according to IEC 63171	Application	IEEE standard
A (20 MHz)	10BASE-T1S 10BASE-T1L	802.3cg
B (600 MHz)	10BASE-T1 1000BASE-T1	802.3bw / 802.3bp
C (1250 MHz)	2.5GBASE-T1	802.3ch

### Powering of SPE Systems (PoDL)

Single-pair can carry power with the IEEE approved 802.3bu-2016—Standard for Physical Layer and Management Parameters for Power over Data Lines (PoDL) of Single Balanced Twisted-Pair ethernet. The standard supports 100BASE-T1 and 1000BASE-T1, whilst the latest single-balanced twisted-pair ethernet solution to use balanced twisted-pair cabling. 802.3bu-2016 defines a power delivery protocol that supports multiple classes of power delivery across a range of voltages. The standard includes assured fault protection and detection capabilities for identifying powered device signatures, as well as communicating directly with powered devices to determine accurate and safe power delivery.

There are 16 different performance classes for the devices, ranging from 0.5 W to 52 W, which can also differ in the supplied voltage. Classes 0 to 9 were originally designed for 100BASE-T1 and 1000BASE-T1 data links in the automotive sector, while classes 10 to 15 were introduced into the Ethernet standard in the course of the 10BASE-T1 extensions.

Class	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
V max (V)	18	18	18	18	36	36	36	36	60	60	30	30	30	58	58	58
V min (V)	4.94	4.41	12	10.06	10.3	8.86	23.3	21.7	40.8	36.7	14	14	14	35	35	35
I max (mA)	101	227	249	471	97	339	215	461	735	1360	92	240	632	231	600	1579
P max (W)	0.5	1	3	5	1	3	5	10	30	50	1.23	3.2	8.4	7.7	20	52
R Loop (Ω)	6	6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	65	25	9.5	65	25	9.5

Table based on information from IEEE Std. 802.3bu and IEEE Std. 802.3cg



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# Cable Constructions

Copper cables used for structured cabling have 4 twisted pairs of wires but there are a number of different types of construction:

The ISO/IEC 11801 standard defines the different types of cable screen constructions as *X/YTP*, where *X* is the type of overall screen, *Y* is the type of screen around the twisted pairs and *TP* stands for *Twisted Pair*.

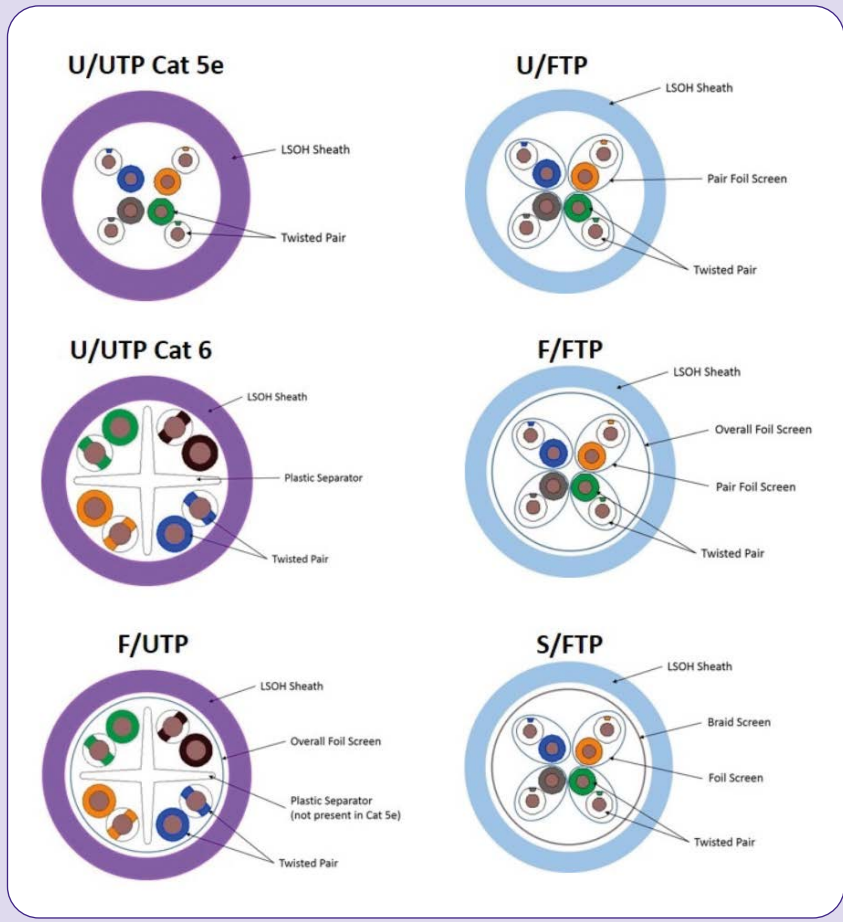
Some examples of typical cable constructions can be seen in the diagram below.

**X can be:**

- U for Unscreened
- F for Foil Screened
- S for Braid Screen

**Y can be:**

- U for Unscreened
- F for Foil Screened



# Categories & Classes

Component		Link/Channel		Frequency	Application
TIA	ISO/EN	TIA	ISO/EN		
Cat 5e	Cat 5e	Cat 5e	Class D	100 MHz	1G Base-T
Cat 6	Cat 6	Cat 6	Class E	250 MHz	1G Base-T
Cat 6A	Cat 6 <sub>A</sub>	Cat 6A	Class E <sub>A</sub>	500 MHz	10G Base-T
	Cat 7		Class F	600 MHz	10G Base-T
	Cat 7 <sub>A</sub>		Class F <sub>A</sub>	1000 MHz	10G Base-T
	Cat 8		Class F <sub>A</sub>	2000 MHz	up to 40G Base-T

**Cat-5e:** This cable is defined in TIA/EIA-568 and has a slightly higher frequency specification than Cat-5 and can be used for 100Base-T and 1000Base-t (Gigabit Ethernet).

**Cat-6:** This cable is defined in TIA/EIA-568-B and provides a significant improvement in performance over Cat5 and Cat 5e. During manufacture Cat 6 cables are more tightly wound than either Cat 5 or Cat 5e and can support speeds up to 10Gbps.  
The Cat 6 Ethernet cables generally have 2+ twists per cm and some may include a nylon spline to reduce crosstalk, although this is not actually required by the standard.

**Cat-6a:** The "a" in Cat 6a stands for "Augmented". The Cat 6a cables are able to support twice the maximum bandwidth, and are capable of maintaining higher transmissionspeeds over longer network cable lengths. Cat 6a cables utilise shielded to eliminate crosstalk for today's network applications and higher speed protocols such as 10GBASE-T.

**Cat-7:** This is defined by ISO/IEC 11801 Class F cabling. It comprises four individually shielded pairs inside an overall shield. It is aimed at applications where transmission of frequencies up to 600 Mbps is required.

**Cat-8:** These cables are designed for use in High performance 25 /40 GBASE-T Ethernet Networking applications up to a maximum length of 30M.

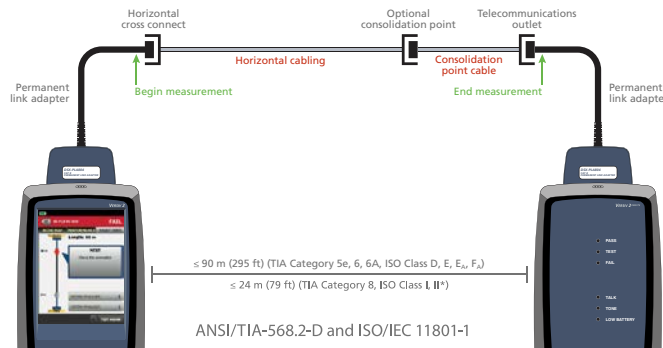




## Twisted Pair Certification Methods

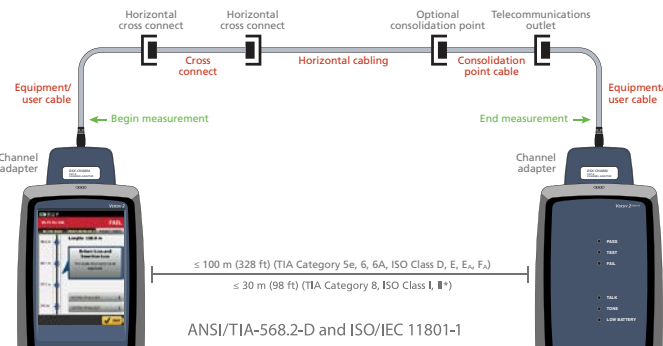
### Permanent Link Certification

The permanent link test is used to certify the permanent cabling infrastructure and is typically conducted during the installation phase of the network.



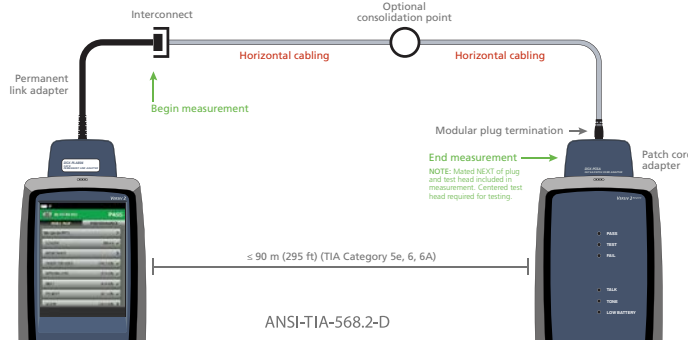
### Channel Certification

The channel test involves everything in the permanent link test, plus the patch cords in the work area, and those used for interconnection and/or cross connection. Channel tests are commonly performed after initial installation when the patch cords are available.



### Modular Plug Terminated Link Certification

The modular plug terminated link has an interconnect (modular jack) on one end and a modular plug on the other, and is tested on one end with a permanent link adapter and the other with a patch cord adapter. The MPLT is used in applications where a patch cord is unnecessary or inconvenient such as LED lighting, security, and wireless access points.



\*Cross connects and consolidation points are not allowed for Cat 8 or Class I/II

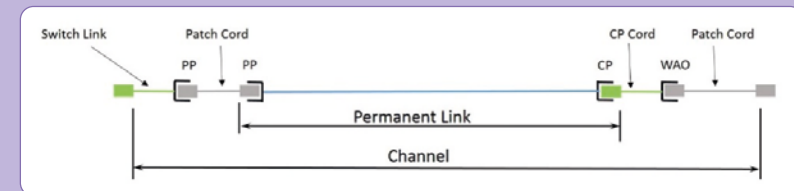
## Ethernet Cabling Guidelines

	TWISTED PAIR	Multimode Fibre OM3	Multimode Fibre OM4	Singlemode Fibre OS2 1310nm	Singlemode Fibre OS2 1550nm
10BASE-T (10Mb/s)	✓	2000m	2000m	N/S	N/S
100BASE-T (100Mb/s)	✓	2000m	2000m	N/S	N/S
1000BASE-T (GbE)	✓	550m	1000m	5000m	N/S
10GBASE-T (10GbE)	✓	300m	550m	10000m	40000m
40GBASE-T (40GbE)	✓	100m	100m	10000m	40000m
100GBASE-T (100GbE)		100m	150m	10000m	40000m

N/S = Not Specified

## Maximum Copper Cabling Lengths

The TIA 568-C standard defines the maximum length of the Permanent Link to be 90m and the maximum length of the Channel to be 100m, typically made up of 90m of solid conductor cable and 10m of stranded conductor cable.





COPPER NETWORKING  
**TECH TERMS**

## Wi-Fi & PoE

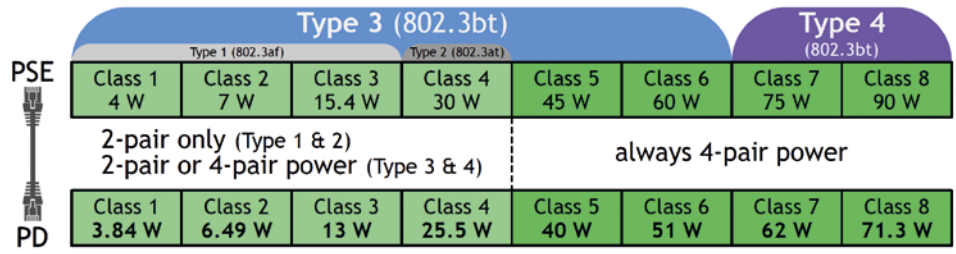
The latest design standard for Wired and Wireless building combine conventional cabling requirements with the demands of the latest Wi-Fi standards and ever-increasing use of PoE equipment, requires an intelligent approach to cabling in order to derive full benefits.

With the implementation of a Wi-Fi 6 network these technological changes must be understood with the implications for the wired cabling uplink infrastructure. The potential of Wi-Fi 6 can only be fully unlocked if the wired infrastructure is properly specified, designed, and deployed.

Wi-Fi 6 & 6E (802.11ax) differ from previous generations of wireless technology as it will deliver four times faster average throughput, with data rates in excess of 5 Gb/s expected. It will benefit from the provision of two wired high bandwidth IT cabling uplink connections that will enhance PoE remote powering.

- **Wi-Fi 6 wireless access points (WAPs) need two class EA/category 6A or higher connections.** The ability of Wi-Fi 6 to support greater than 5 Gb/s data speeds for uplink connections. Standards organisations and design experts are recommending deploying two minimum category 6A) to each wireless access point (WAP). Wi-Fi 6 WAPs will need at least one class EA/category 6A connection to support either 2.5GBASE-T or 5GBASE-T, 2.5 Gb/s or 5 Gb/s transmission speeds, and to take full advantage of Wi-Fi 6 technology as it matures to support greater than 5 Gb/s, two connections will be required to support link aggregation.
- **Wi-Fi 6 requires a minimum of 25 Gb/s capable backbone.** Installing a 25 Gb/s capable multimode optical fibre backbone will be required to support Wi-Fi 6 uplink capacity. In fact, this is already a key recommendation for Wi-Fi implementations per industry cabling standards.
- **Wi-Fi 6 WAPs will need more power and thermally stable cabling systems.** Wi-Fi 6 radio chips use significantly more complex signal processing and will require 30-watt Type 2 PoE power over Ethernet (PoE). Since the higher power can cause heat build-up in cable bundles, Wi-Fi 6 WAPs are better supported by thermally stable shielded cabling systems and solid conductor cords used in Category 6A shielded cabling.

## The Different Options for Using the 4 Pairs



A first option is to use two pairs to power the PD and use the 4 pairs to convey the data.

A second option is to use the 4 pairs to both feed the PD and convey the data.

## MPTL (Modular Plug Terminated Link)

In a traditional network infrastructure, IP devices typically connect to the network by patch cords from outlets that are terminated to horizontal cables. For some devices, especially those mounted to a ceiling that tend to be permanently fixed, the traditional method is not always the most efficient. Devices such as PoE lights, security cameras and wireless access points can instead be connected directly via a standards-based modular plug-terminated link (MPTL), eliminating the faceplate, outlet, and patch cord. The MPTL reduces extra connection points and improves security by eliminating patch cords that can be easily disconnected.

MPTL's are built with infrastructure cable directly connecting the end device with the horizontal network infrastructure using an RJ45 plug on one end and an RJ45 jack on the patch panel side. This eliminates the need for an additional outlet and patch cord and speeds up deployment in the field.

The MPTL link method meets TIA 568.2-D and ISO/IEC TR 11801-9910 ED1, see test on page 29.

## CPR Guidelines

EUROCLASS	Reaction to Fire	Smoke Production (S)	Flaming Droplets (D)	Acidity (A)
A <sub>ca</sub>	Gross heat of combustion BS EN ISO 1716			
B1 <sub>ca</sub>	Flame Spread BS EN 50399	S1, s2 and s3	Optional additional during the fire test to monitor flaming droplets	Optional separate test to measure the acidity of gasses given off. Measured as pH and conductivity
B2 <sub>ca</sub>	BS EN 60332-1-2 Heat release.	Mandatory test for smoke production monitored during s1, s2 and s3	d0 d1 d2	a1 a2 a3
C <sub>ca</sub>	BS EN 50399	BS EN 61034-2	BS EN 50399	BS EN 60754-2
D <sub>ca</sub>	Heat release BS EN 50399 Flame Spread BS EN 60332-1-2			
E <sub>ca</sub>	Flame Spread BS EN 60332-1-2	Basic test by independent authorised laboratory (notified body)		
F <sub>ca</sub>	Factory or laboratory test (not necessarily notified body) but does not meet the requirements of class Eca			

Classes A to E have to be tested by an independent authorised laboratory. With F, E & D classes this is a one-off certification. For C Class & above these must be regularly tested and subject to the AVCP system which controls the consistency of assessment results.

# Copper Networking



## PART NO DESCRIPTION

### Networking Cable

#### Cat6a Network Cables

XX6A0001Z	Cat6a Ice Blue U/FTP LSOH 23AWG Solid CPR Dca Cable 305m Reel in Box
XX6A0004	Cat6a Ice Blue U/FTP LSOH 23AWG Solid CPR B2ca Cable 305m Reel in Box
XX6A0005	Cat6a Ice Blue F/FTP LSOH 23AWG Solid CPR Dca Cable 305m Reel in Box
XX6A0009	Cat6a Ice Blue F/FTP LSOH 23AWG Solid CPR B2ca Cable 305m Reel in Box

#### Cat6a External Grade Cable

XX6A0006	Cat6a Black F/FTP Maxxam XXtreme Outdoor Ethernet 23AWG Solid Cable 305m Reel in Box
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#### Cat6 Network Cables

XX60003	Cat6 Violet U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003B	Cat6 Blue U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003BK	Cat6 Black U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003G	Cat6 Green U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003GY	Cat6 Grey U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003O	Cat6 Orange U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003R	Cat6 Red U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003WH	Cat6 White U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60003Y	Cat6 Yellow U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX60009	Cat6 Grey F/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel in Box
XX60004	Cat6 Violet U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box
XX60004B	Cat6 Blue U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box
XX60004BK	Cat6 Black U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box
XX60004GY	Cat6 Grey U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box



## PART NO DESCRIPTION

XX60004O	Cat6 Orange U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box
XX60004WH	Cat6 White U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box
XX60004Y	Cat6 Yellow U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box

#### Cat6 External Grade Cable

XX60006	Cat6 Black F/UTP Maxxam XXtreme Outdoor 23AWG Solid Cable 305m Reel in Box
XX60007	Cat6 Black U/UTP Maxxam XXtreme Dual Jacket 23AWG Solid Cable 500m Reel
XX60008	Cat6 Black U/UTP Maxxam XXtreme Outdoor 23AWG Solid Cable 305m Reel in Box

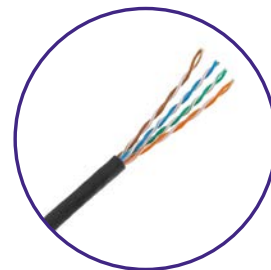


#### Cat5e Network Cables

XX5E0001	Cat5e Violet U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001B	Cat5e Blue U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001BK	Cat5e Black U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001G	Cat5e Green U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001O	Cat5e Orange U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001PVC	Cat5e Grey U/UTP PVC 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001R	Cat5e Red U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0009	Cat5e Grey F/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001Y	Cat5e Yellow U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reelex Box
XX5E0001C	Cat5e Violet U/UTP LSOH 24AWG Solid CPR Cca Cable 305m Reelex Box

#### Cat5e External Grade Cable

XX5E0005	Cat5e Black F/UTP Maxxam XXtreme Outdoor 24AWG Solid Cable 305m Reel in Box
XX5E0007	Cat5e Black U/UTP Maxxam XXtreme Outdoor 24AWG Solid Cable 500m Reel
XX5E0008	Cat5e Black U/UTP Maxxam XXtreme Outdoor 24AWG Solid Cable 305m Reelex Box



# Copper Networking

## Modules | Patch Panels



### PART NO DESCRIPTION

#### Modules

##### Cat6a

72-3759	Cat6a Shielded Keystone Shuttered Jack PoE+
72-3758	Cat6a Shielded Keystone Pack of 24 Keystone Shuttered Jack PoE+
72-3752	Keystone Termination Tool

##### Cat6

72-3690	Cat6 UTP Low Profile Module 25mm x 50mm White
72-3691	Cat6 UTP Module LJ6C White
72-3692	Cat6 UTP Toolless Keystone Jack Black
72-3694	Cat6 UTP Shuttered Low Profile Flat Module 25mm x 50mm Black
72-3700	Cat6 UTP Angled Module 25mm x 50mm White
72-3693	Cat6 UTP Punch Down Keystone Jack Component Level Black

##### Cat5e

72-3653	Cat5e UTP Module 25mm x 50mm White
72-3654	Cat5e UTP Module LJ6C White
72-3658	Cat5e UTP Toolless Keystone Jack Black
72-3655	Cat5e UTP Low Profile Flat 25mm x 50mm Black Shuttered Module



#### Patch Panels

##### Cat6a Patch Panels

72-3748	24 Port Cat6a FTP 0.5u PCB Patch Panel
72-3749	24 Port Cat6a FTP 1u PCB Patch Panel
72-3760	24 Port 1u Unloaded Keystone Patch Panel
72-3761	48 Port 1u Unloaded Keystone Patch Panel
72-3762	24 Port 1u Unloaded Keystone (Angled Jacks) Patch Panel
XX6A0055	24 Port 1u Unloaded Keystone Angled Patch Panel

##### Cat6 Patch Panels

72-3393	24 Port Cat6 UTP 1u EasyPunch Patch Panel
72-3389	48 Port Cat6 UTP 1u Patch Panel
72-3641	24 Port Cat6 FTP 1u Patch Panel
72-3396	48 Port Cat6 FTP 1u Patch Panel



### PART NO DESCRIPTION

72-3682	16 Port Cat6 UTP 1u Patch Panel
72-3680	24 Port Cat6 UTP 1u Eco Patch Panel
72-3684	48 Port Cat6 UTP 2u Patch Panel
72-3683	24 Port Cat6 UTP 1u Patch Panel
<b>Cat5e Patch Panels</b>	
72-3387	16 Port Cat5e UTP 1u Patch Panel
72-3391	24 Port Cat5e UTP 1u Patch Panel
72-3392	24 Port Cat5e UTP 1u Eco Patch Panel
72-3388	48 Port Cat5e UTP 1u Patch Panel
72-3395	48 Port Cat5e UTP 2u Patch Panel
72-3399	24 Port Cat5e UTP 1u EasyPunch Patch Panel

## Looking for Network Patch Leads?

Go to the 'Network Patch Leads' section on page 9

Or 'Fibre Networking' section on page 45





PART NO	DESCRIPTION
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**Cable Management****Blanking Panels**

72-2601	1u 19inch Toolless Blanking Panel Black
72-2602	2u 19inch Toolless Blanking Panel Black
72-2604	4u 19inch Toolless Blanking Panel Black
XXRBLANK10	1u 10inch Blanking Panel Black
72-2667	1u 19inch Blanking Panel Black
72-2666	2u 19inch Blanking Panel Black
72-2665	3u 19inch Blanking Panel Black
72-2664	4u 19inch Blanking Panel Black

**Cable Management**

72-2660	1u Vented Black Panel
72-2668	1u 4 Ring Cable Tidy Panel Black
72-2672	1u 5 Ring Cable Management Bar 65mm Rings Black
72-2674	1u 5 Ring Cable Management Bar 100mm Rings Black
72-2673	2u 4 Ring Cable Management Bar 65mm Rings Black
72-2675	2u 4 Ring Cable Management Bar 100mm Rings Black
72-2676	1u 4 Ring Extra Depth 100mm Cable Tidy Panel Black
72-2678	1u Cable Dump Panel Steel with Pass Through Black
72-2690	1u Cable Dump Panel Plastic with Pass Through Black
72-2691	2u Cable Dump Panel Plastic with Pass Through Black
72-2680	1u Brush Letterbox Cable Tidy Panel Black
72-2681	1u Brush Strip Panel Half Open top Style Black
72-2682	2u Brush Strip Panel Letterbox Style Black
72-2683	1u Brush Strip Panel 4 Ring Black
72-2685	100mm x 75mm Cable Management Ring Black
72-2686	75mm x 75mm Cable Management Ring Black
72-2688	120mm x 110mm Cable Management Ring Black
72-2694	1u Slotted Finger 19inch 92mm Depth Cable Management Black
72-2695	2u Slotted Finger 19inch 92mm Depth Cable Management Black
72-2697	25mm x 50mm Brush Module
72-2698	50mm x 50mm Brush Module
72-2699	100mm x 50mm Brush Module
52-3108	Cage Nuts & Screws M6 Silver (PK 50)
CAGENUTBK	Black Cage Nuts & Screws M6 (PK 50)

PART NO	DESCRIPTION
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**Faceplates & Adaptors**

72-3370	LJ6C Faceplate Single Gang 1 Port
72-3371	LJ6C Faceplate Single Gang 2 Port
72-3382	Flush Faceplate 86mm x 86mm with Labelling Window Single Gang
72-3380	Bevelled Faceplate 50mm x 50mm Single Gang
72-3381	Bevelled Faceplate 50mm x 100mm Double Gang
72-3379	Flat Faceplate 50mm x 50mm Single Gang
72-3383	Flat Faceplate 50mm x 100mm Double Gang
XXP1050	Office Style Faceplate 50mm x 50mm Single Gang White
XXP1052	Office Style Faceplate 50mm x 100mm Double Gang White
XXNLC004	Lockable Tamperproof Single Gang Faceplate
72-3652	Quarter Blank 12.5mm x 50mm White (PK 2)
72-3651	Half Blank 25mm x 50mm White
72-3373	LJ6C Blank 25mm x 38.5mm White
72-3755	Angled Shutter for Keystone Jack 25mm x 50mm
72-3753	Angled Black Shutter for Keystone Jack 25mm x 50mm
72-3756	LJ6C Angled Shutter For Keystone Jack White
72-3757	LJ6C Angled Shutter For Keystone Jack Black

**Solid Harness Patch Leads**

XX6S0130	30m Cat6 RJ45 Grey U/UTP LSOH Solid Harness Patch Lead
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*Cat6 Solid Harness Patch Leads also available in additional colours.  
Please contact our sales team for more details.*

# Copper Networking

## Cat6a Field Termination Plugs | Couplers | Back Boxes | SecurePort



PART NO	DESCRIPTION
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### Cat6a Field Termination Plugs

22-2200	Cat6a RJ45 FTP Field Termination Plug with Black Latch
22-2201	Cat6a RJ45 FTP Field Termination Plug with Blue Latch
22-2202	Cat6a RJ45 FTP Field Termination Plug with White Latch
87-2804	Crimping Tool for Cat6a Field Termination Plug

Other colour latches are available. Please contact our sales team for more details.

### Cat6a Universal UTP/STP MPTL Field Termination Plug

72-3770	Cat6a Universal UTP/STP MPTL Field Termination Plug
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PART NO	DESCRIPTION
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### Coupler Patch Panels

72-3408	24 Port Cat6a FTP 1u Coupler Panel
72-3405	16 Port Cat6 UTP 1u Coupler Panel
72-3406	24 Port Cat6 UTP 1u Coupler Panel
72-3407	48 Port Cat6 UTP 2u Coupler Panel
72-3384	16 Port Cat5e UTP 1u Coupler Panel
72-3385	24 Port Cat5e UTP 1u Coupler Panel
72-3386	48 Port Cat5e UTP 2u Coupler Panel

### Couplers

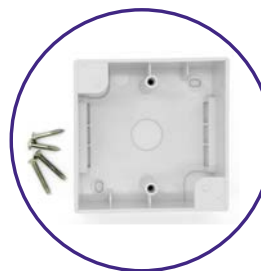
#### Couplers

72-3409	Cat6a RJ45 FTP Keystone Panel Mount Through Coupler (10G)
22-2139	Cat6a 10G RJ45 FTP Through Coupler
22-2147	Cat6a UTP IDC Punch Down Type Coupler
22-2148	Cat6a FTP IDC Punch Down Type Coupler Joint
72-3404	Cat6 RJ45 UTP Keystone Panel Mount Through Coupler
22-2137	Cat6 RJ45 UTP Female - Female Coupler
72-3390	Cat5e RJ45 UTP Keystone Panel Mount Through Coupler
22-2126	Cat5e RJ45 UTP Female - Female Coupler
22-2136	Cat5e RJ45 FTP Female - Female Coupler
22-2129	Cat5e UTP Junction Box IDC Punch Down
22-2125	Cat5e Y Bridge Adaptor
22-2128	RJ45 UTP Female Coupler 8P8C
22-2630	RJ45 - D9 Male Modular Adaptor Grey
22-2632	RJ45 - D25 Male Modular Adaptor Grey
22-2634	RJ45 - D9 Female Modular Adaptor Grey
22-2130	Data/Data 10/100 Economiser (Pairs to Work)
22-2134	Voice/Voice Economiser (PK 2)
22-2138	Data/Voice 10/100 Economiser (Pairs to Work)



### Back Boxes

72-2650	Single Gang PVC Back Box 21mm
72-2653	Single Gang PVC Back Box 27mm
72-2655	Single Gang PVC Back Box 32mm
72-2652	Single Gang PVC Back Box 45mm
72-2657	Double Gang PVC Back Box 32mm
72-2651	Double Gang PVC Back Box 45mm
MBB40S	Metal Back Box Single Gang 40mm for 20mm Conduit
UK1-1MG	Metal Faceplate for 1 x LJ6C Fascia
UK1-2MG	Metal Faceplate for 2 x LJ6C Fascia



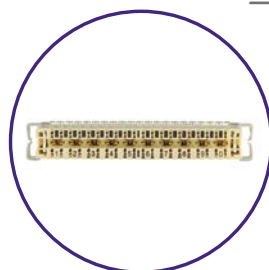
### SecurePort

22-2019	RJ45 Security Block Removal Tool
22-2020	RJ45 Security Block + Tool Black (PK 25)
22-2021	RJ45 Security Block + Tool Red (PK 25)
22-2022	RJ45 Security Block + Tool Blue (PK 25)





PART NO	DESCRIPTION
<b>Telecom Cables</b>	
22-2860	3m RJ12 6P6C 6 Core Straight Wired White
22-2862	5m RJ11 6P6C 6 Core Straight Wired White
22-2863	3m RJ11 - RJ11 6P4C (All Lines) White
22-2864	5m RJ11 - RJ11 6P4C (All Lines) White



<b>Voice Products &amp; Panels</b>	
72-3397	25 Way 1u Voice Panel 3 Pair (1,2-3,6-4,5)
72-3398	50 Way 1u Voice Panel 3 Pair (1,2-3,6-4,5)
72-3413	237A 10 Pair Disconnection Strip Module Cream
72-3414	51A Designation Strip



<b>Telephone Crimp Plugs &amp; Adaptors</b>	
22-2145	4 Way BT Crimp Plug BT431A
22-2146	6 Way BT Crimp Plug BT631A
22-2866	15cm BT - RJ45 Tailed Secondary
22-2870	15cm BT - RJ45 Tailed PABX Master
22-2908	RJ11 Female - BT Male Adaptor
22-2909	ADSL Microfilter Adaptor
22-2910	ADSL Microfilter Tailed Adaptor



<b>Tooling &amp; Testers</b>	
87-0438	110 Impact Punch Down Tool
72-2669	Krone Style 2A Punch Down Tool
87-2799	RJ10, RJ11, RJ12, RJ45 Non-Ratchet Crimp Tool
87-2807	BT/RJ11 Ratchet Crimp Tool
87-2808	RJ45/RJ11 Ratchet Crimp Tool
87-2809	RJ45/RJ11 Premium Ratchet Crimp Tool
87-2810	RJ45 Crimp Tool for use with 22-2096



PART NO	DESCRIPTION
87-2811	Universal Cable Stripping Tool Upto 22AWG
87-2812	Cable Stripper for UTP/STP
CYC2	Jacket Stripper 4.0 - 11.0mm Diameter
87-3551	RJ45/RJ11/BNC/USB Continuity Tester
87-3555	RJ45 Continuity Tester



<b>Lockable Wall Boxes</b>	
52-1023	3u x 360mm Deep Lockable Wall Rack 19inch Black Glass Door
52-1024	4u x 360mm Deep Lockable Wall Rack 19inch Black Glass Door
52-1026	6u x 360mm Deep Lockable Wall Rack 19inch Black Glass Door
52-4023	3u x 450mm Deep Lockable Wall Rack 19inch Black Glass Door
52-4024	4u x 450mm Deep Lockable Wall Rack 19inch Black Glass Door
52-4026	6u x 450mm Deep Lockable Wall Rack 19inch Black Glass Door



<b>Flat Pack Wall Cabinets</b>	
52-6U450BLK-FLAT	6u Wall Cabinet 450 Deep Black (Flatpack)
52-6U600BLK-FLAT	6u Wall Cabinet 600 Deep Black (Flatpack)
52-9U450BLK-FLAT	9u Wall Cabinet 450 Deep Black (Flatpack)
52-9U600BLK-FLAT	9u Wall Cabinet 600 Deep Black (Flatpack)
52-12U450BLK-FLAT	12u Wall Cabinet 450 Deep Black (Flatpack)
52-12U600BLK-FLAT	12u Wall Cabinet 600 Deep Black (Flatpack)
52-15U450BLK-FLAT	15u Wall Cabinet 450 Deep Black (Flatpack)
52-15U600BLK-FLAT	15u Wall Cabinet 600 Deep Black (Flatpack)

Please see our **XXTREME External IP67 Fibre Patch Leads** on Page 59



# Copper Networking

Wall Cabinets | Wall Cabinet Accessories | 10inch Cabinet | Wall Brackets | Cable Dump Panels



PART NO	DESCRIPTION
<b>Wall Cabinets</b>	
52-6U450BLK	6u Wall Cabinet 450 Deep Black
52-6U600BLK	6u Wall Cabinet 600 Deep Black
52-9U450BLK	9u Wall Cabinet 450 Deep Black
52-9U600BLK	9u Wall Cabinet 600 Deep Black
52-12U450BLK	12u Wall Cabinet 450 Deep Black
52-12U600BLK	12u Wall Cabinet 600 Deep Black
52-15U450BLK	15u Wall Cabinet 450 Deep Black
52-15U600BLK	15u Wall Cabinet 600 Deep Black



<b>Wall Cabinet Accessories</b>	
52-1998	1u 200mm Cantilever Vented Shelf Black (20Kg)
52-1999	1u 300mm Cantilever Vented Shelf Black (450mm Cab) (20Kg)
52-2000	1u 350mm Cantilever Vented Shelf Black (600mm Cab) (20Kg)
52-2004	2u 300mm Cantilever Vented Shelf Black (450mm Cab) (20Kg)
52-2005	2u 350mm Cantilever Vented Shelf Black (600mm Cab) (20Kg)
52-2006	2u 400mm Cantilever Vented Shelf Black (20Kg)
52-2010	Adjustable Shelf (Adjustable 559mm to 1023mm) (70Kg Max)
52-1980	2 Way 1u Fan Shelf 19inch Rackmountable (170mm Depth)
52-1984	1u Digital Temperature Unit (2 Way Fan)
52-1900	Spare Keys for Wall Cabinets
52-3108	Cage Nuts & Screws M6 Silver (PK 50)
CAGENUTBK	Black Cage Nuts & Screws (PK 50)



PART NO	DESCRIPTION
<b>Wall Brackets</b>	
52-0020	2u 300mm Hinged Wall Bracket
52-0030	3u 300mm Hinged Wall Bracket
52-0040	4u 300mm Hinged Wall Bracket
52-0060	6u 300mm Hinged Wall Bracket



<b>Cable Dump Panels</b>	
72-2690	1u Cable Dump Panel Plastic Black with Pass Through
72-2691	2u Cable Dump Panel Plastic Black with Pass Through



<b>10inch Cabinet</b>	
XXRCAB6U	6u 10inch SOHO Wall Mount Cabinet 280W x 310D Black (Flat Pack)
XXRCAB9U	9u 10inch SOHO Wall Mount Cabinet 280W x 310D Black
XXRPNL6	12 Port 10inch Cat6 UTP Patch Panel
XXRPNLKS12	1u 10inch 12 Port Keystone Patch Panel
XXRSHELF10	1u 10inch Cantilever Shelf Black



## VELCRO® Brand Cable Straps

## Copper Networking

### PART NO DESCRIPTION

#### VELCRO® Brand Cable Straps

##### VELCRO® Brand ONE-WRAP® Tape WHITE

VEL-OW64100	25m Reel x 10mm Velcro One Wrap Continuous Tape White
VEL-OW64113	25m Reel x 13mm Velcro One Wrap Continuous Tape White
VEL-OW64126	25m Reel x 16mm Velcro One Wrap Continuous Tape White
VEL-OW64139	25m Reel x 20mm Velcro One Wrap Continuous Tape White
VEL-OW64800	25m Reel x 25mm Velcro One Wrap Continuous Tape White
VEL-OW64178	25m Reel x 50mm Velcro One Wrap Continuous Tape White

##### VELCRO® Brand ONE-WRAP® Tape BLACK

VEL-OW64101	25m Reel x 10mm Velcro One Wrap Continuous Tape Black
VEL-OW64114	25m Reel x 13mm Velcro One Wrap Continuous Tape Black
VEL-OW64127	25m Reel x 16mm Velcro One Wrap Continuous Tape Black
VEL-OW64140	25m Reel x 20mm Velcro One Wrap Continuous Tape Black
VEL-OW64153	25m Reel x 25mm Velcro One Wrap Continuous Tape Black
VEL-OW64179	25m Reel x 50mm Velcro One Wrap Continuous Tape Black
VEL-OW64102	25m Reel x 10mm FRT Velcro One Wrap Continuous Tape Black
VEL-OW64115	25m Reel x 13mm FRT Velcro One Wrap Continuous Tape Black
VEL-OW64128	25m Reel x 16mm FRT Velcro One Wrap Continuous Tape Black
VEL-OW64141	25m Reel x 20mm FRT Velcro One Wrap Continuous Tape Black

##### VELCRO® Brand ONE-WRAP® Tape AQUA

VEL-OW64110	25m Reel x 10mm Velcro One Wrap Continuous Tape Aqua
VEL-OW64136	25m Reel x 16mm Velcro One Wrap Continuous Tape Aqua
VEL-OW64149	25m Reel x 20mm Velcro One Wrap Continuous Tape Aqua
VEL-OW64162	25m Reel x 25mm Velcro One Wrap Continuous Tape Aqua

##### VELCRO® Brand ONE-WRAP® Tape PURPLE

VEL-OW64107	25m Reel x 10mm Velcro One Wrap Continuous Tape Purple
VEL-OW64120	25m Reel x 13mm Velcro One Wrap Continuous Tape Purple
VEL-OW64133	25m Reel x 16mm Velcro One Wrap Continuous Tape Purple
VEL-OW64146	25m Reel x 20mm Velcro One Wrap Continuous Tape Purple
VEL-OW64159	25m Reel x 25mm Velcro One Wrap Continuous Tape Purple

### PART NO DESCRIPTION

##### VELCRO® Brand ONE-WRAP® Tape ORANGE

VEL-OW64111	25m Reel x 10mm Velcro One Wrap Continuous Tape Orange
VEL-OW64137	25m Reel x 16mm Velcro One Wrap Continuous Tape Orange
VEL-OW64150	25m Reel x 20mm Velcro One Wrap Continuous Tape Orange
VEL-OW64163	25m Reel x 25mm Velcro One Wrap Continuous Tape Orange

##### VELCRO® Brand ONE-WRAP® Tape ROYAL BLUE

VEL-OW64103	25m Reel x 10mm Velcro One Wrap Continuous Tape Royal Blue
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*Other colour options are available. Please contact our sales team for more details.*

##### VELCRO® Brand ONE-WRAP® Strap BLACK

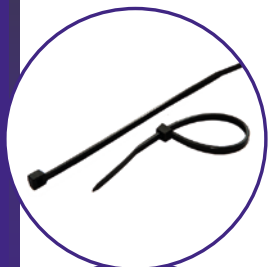
VEL-OW64301	13mm x 200mm 25pcs Roll Velcro One Wrap Strap Black
VEL-OW64401	20mm x 150mm 25pcs Roll Velcro One Wrap Strap Black
VEL-OW64601	20mm x 230mm 25pcs Roll Velcro One Wrap Strap Black
VEL-OW64701	20mm x 330mm 25pcs Roll Velcro One Wrap Strap Black
VEL-OW64801	25mm x 300mm 25pcs Roll Velcro One Wrap Strap Black
VEL-OW64327	13mm x 200mm 100pcs Roll Velcro One Wrap Strap Black
VEL-OW64527	20mm x 200mm 100pcs Roll Velcro One Wrap Strap Black
VEL-OW64627	20mm x 230mm 100pcs Roll Velcro One Wrap Strap Black
VEL-OW64727	20mm x 330mm 100pcs Roll Velcro One Wrap Strap Black
VEL-OW64827	25mm x 300mm 100pcs Roll Velcro One Wrap Strap Black
VEL-OW64366	13mm x 200mm 750pcs Spool Velcro One Wrap Strap Black
VEL-OW64466	20mm x 150mm 750pcs Spool Velcro One Wrap Strap Black
VEL-OW64566	20mm x 200mm 750pcs Spool Velcro One Wrap Strap Black
VEL-OW64766	20mm x 330mm 700pcs Spool Velcro One Wrap Strap Black
VEL-OW64866	25mm x 300mm 750pcs Spool Velcro One Wrap Strap Black
VEL-OW64367	13mm x 200mm 750pcs Spool FRT Velcro One Wrap Strap Black
VEL-OW64567	20mm x 200mm 750pcs Spool FRT Velcro One Wrap Strap Black
VEL-OW64767	20mm x 330mm 750pcs Spool FRT Velcro One Wrap Strap Black
VEL-OW64867	25mm x 300mm 750pcs Spool FRT Velcro One Wrap Strap Black

##### VELCRO® Brand ONE-WRAP® Strap WHITE

VEL-OW64400	20mm x 150mm 25pcs Roll Velcro One Wrap Strap White
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# Copper Networking

## Cable Ties | Braided Sleeving | Cable Protection Strips



### PART NO DESCRIPTION

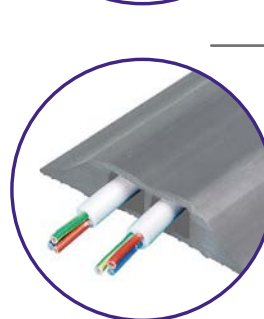
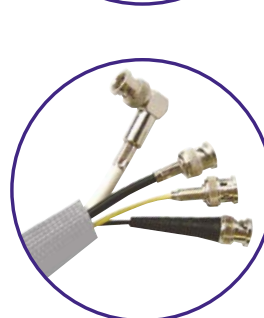
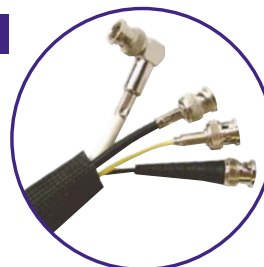
#### Cable Ties

##### Bulk Packed Cable Ties

94-CT100	Cabletie 2.5mm x 100mm Neutral (PK 100)
94-CT100BL	Cabletie 2.5mm x 100mm Black (PK 100)
CTIE1-10R	Cabletie 2.5mm x 100mm Orange (PK 100)
CTIE1-1RD	Cabletie 2.5mm x 100mm Red (PK 100)
CABTIE10-1	Cabletie 3.6mm x 150mm Black (PK 100)
94-CT200	Cabletie 4.8mm x 200mm Neutral (PK 100)
94-CT200BL	Cabletie 4.8mm x 200mm Black (PK 100)
CTIE3-1BL	Cabletie 4.8mm x 200mm Blue (PK 100)
CTIE3-1OR	Cabletie 4.8mm x 200mm Orange (PK 100)
CTIE3-1YL	Cabletie 4.8mm x 200mm Yellow (PK 100)
94-CT300	Cabletie 4.8mm x 300mm Neutral (PK 100)
94-CT300BL	Cabletie 4.8mm x 300mm Black (PK 100)
94-CT370	Cabletie 4.8mm x 370mm Neutral (PK 100)
94-CT370BL	Cabletie 4.8mm x 370mm Black (PK 100)
CABTIE7	Cabletie 2.5mm x 200mm Black (PK 1000)
CABTIE3	Cabletie 4.8mm x 200mm Black (PK 1000)
CABTIE5	Cabletie 4.8mm x 300mm Black (PK 1000)

##### Self Adhesive Cable Tie Bases

SBASE20B	Cabletie Base 20mm x 20mm Black (PK 100)
SBASE20N	Cabletie Base 20mm x 20mm Neutral (PK 100)
SBASE28B	Cabletie Base 28mm x 28mm Black (PK 100)
SBASE28N	Cabletie Base 28mm x 28mm Neutral (PK 100)



### PART NO DESCRIPTION

#### Braided Sleeving

##### Braided Sleeving LSOH BLACK

SLEEV-5B	100m Braided Sleeving 2mm-7mm (10mm max) LSOH Black
SLEEV-10B	100m Braided Sleeving 5mm-12mm (18mm max) LSOH Black
SLEEV-15B	50m Braided Sleeving 8mm-17mm (25mm max) LSOH Black
SLEEV-20B	25m Braided Sleeving 10mm-21mm (29mm max) LSOH Black
SLEEV-25B	25m Braided Sleeving 14mm-25mm (36mm max) LSOH Black
SLEEV-30B	25m Braided Sleeving 18mm-32mm (45mm max) LSOH Black
SLEEV-40B	25m Braided Sleeving 20mm-40mm (64mm max) LSOH Black
SLEEV-50B	25m Braided Sleeving 30mm-55mm (75mm max) LSOH Black
SLEEV-50B-100	100m Braided Sleeving 30mm-55mm (75mm max) LSOH Black

##### Braided Sleeving LSOH WHITE

SLEEV-10WHI	100m Braided Sleeving 5mm-12mm (18mm max) LSOH White
SLEEV-15WHI	50m Braided Sleeving 8mm-17mm (25mm max) LSOH White
SLEEV-20WHI	25m Braided Sleeving 10mm-21mm (29mm max) LSOH White
SLEEV-25WHI	25m Braided Sleeving 14mm-25mm (36mm max) LSOH White
SLEEV-30WHI	25m Braided Sleeving 18mm-32mm (45mm max) LSOH White
SLEEV-40WHI	25m Braided Sleeving 20mm-40mm (64mm max) LSOH White

##### Braided Sleeving LSOH GREY

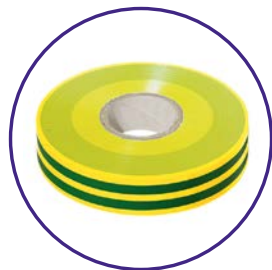
SLEEV-G20	25m Braided Sleeving 10mm-21mm (29mm max) LSOH Grey
SLEEV-G25	25m Braided Sleeving 14mm-25mm (36mm max) LSOH Grey
SLEEV-G30	25m Braided Sleeving 18mm-32mm (45mm max) LSOH Grey
SLEEV-G50	25m Braided Sleeving 30mm-55mm (75mm max) LSOH Grey

#### Cable Protection Strips

72-2821	Multi 3 Metre (30mm x 10mm) Black
72-2822	Multi 9 Metre (30mm x 10mm) Black
72-2876	Combi 3 Metre (16mm x 10mm + 16mm x 10mm) Grey
72-2882	Comnet 9 Metre (16mm x 12mm + 32mm x 12mm) Black
72-2891	Double 3 Metre (2 x 11mm Diameter) Black
72-2892	Double 9 Metre (2 x 11mm Diameter) Black
72-2946	Lowvolt 9 Metre (30mm x 10mm) Yellow

## PVC Insulation Tape | Flexible Conduit | MPTL Cable Adaptors

## Copper Networking



### PART NO DESCRIPTION

#### PVC Insulation Tape

PVCT19BLK	PVC Insulation Tape 19mm x 33m Black
PVCT19G-Y	PVC Insulation Tape 19mm x 33m Green/Yellow
PVCT19RED	PVC Insulation Tape 19mm x 33m Red
PVCT19WTE	PVC Insulation Tape 19mm x 33m White



#### Flexible Conduit

##### Flexible LSOH Black Conduit & Accessories

PPD25-5MASS	5m x 25mm LSOH Flexible Conduit Black Fitted with Glands & Nuts
PPD32-5MASS	5m x 32mm LSOH Flexible Conduit Black Fitted with Glands & Nuts
PPD25-50M	50m x 25mm LSOH Flexible Conduit Coil Black
PPD32-50M	50m x 32mm LSOH Flexible Conduit Coil Black
PVF25BL	25mm Slit Threaded Gland & Locknut Black (PK 10)



##### Flexible White Conduit & Accessories

PPD25WH-50M	50m x 25mm LSOH Flexible Conduit Coil White
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*Sold in packs of 10 or 100*

*Other colour & length options available - please contact our sales team for more information.*

*Other conduit accessories available - please contact our sales team for more information.*

##### Galvanised Steel Flexible Conduit & Accessories

CF20CG	20mm Steel Coupler
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*Sold in packs of 10 or 100*

#### MPTL Cable Adaptors

- MPTL Cable adaptors are designed for use in connecting IP devices to the network, including cameras, wireless access points and PoE lighting systems.
- Allow fast, easy deployment of remote devices when the length of connection is unknown. Easy and quick to use with adds, moves and changes and are much less disruptive.
- MPTL leads improve security by eliminating visible and accessible patch leads that can be intentionally or unintentionally disconnected from a device. Ideal for publicly mounted access points or surveillance cameras.
- They can be used as intermediate connection points between the ceiling consolidation points, ready for when the end devices are installed.
- They also eliminate the need to use field terminated RJ45 plugs to connect directly to end devices.



### PART NO DESCRIPTION

#### MPTL Cable Adaptors

##### Cat6a MPTL Cable Adaptor

72-6001	0.15m MPTL Cat6a Black S/FTP LSOH 26AWG Cable Adaptor
72-6005	0.5m MPTL Cat6a Black S/FTP LSOH 26AWG Cable Adaptor
72-6010	1m MPTL Cat6a Black S/FTP LSOH 26AWG Cable Adaptor
72-6030	3m MPTL Cat6a Black S/FTP LSOH 26AWG Cable Adaptor
72-8001	0.15m MPTL Cat6a White S/FTP LSOH 26AWG Cable Adaptor
72-8005	0.5m MPTL Cat6a White S/FTP LSOH 26AWG Cable Adaptor
72-8010	1m MPTL Cat6a White S/FTP LSOH 26AWG Cable Adaptor
72-8030	3m MPTL Cat6a White S/FTP LSOH 26AWG Cable Adaptor

**Other lengths & colours available, please ask our sales team**

# Copper Networking

## Cat6a 30AWG Patch Cable | Cat6a Patch Cable | Cat6 Patch Cable



### PART NO DESCRIPTION

#### Cat6a 30AWG Patch Cable

##### S/FTP Stranded (500m) LSOH

39-3440	Cat6a Orange S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3441	Cat6a Grey S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3442	Cat6a Red S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3443	Cat6a Blue S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3444	Cat6a Green S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3445	Cat6a Black S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel
39-3446	Cat6a White S/FTP LSOH 30AWG Stranded Patch Cable 500m Reel



#### Cat6a Patch Cable

##### S/FTP Stranded (500m) LSOH

39-3418	Cat6a Orange S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3419	Cat6a Pink S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3420	Cat6a Grey S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3421	Cat6a Red S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3422	Cat6a Blue S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3423	Cat6a Green S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3424	Cat6a Yellow S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3425	Cat6a Black S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3426	Cat6a Violet S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3427	Cat6a White S/FTP LSOH 26AWG Stranded Patch Cable 500m Reel



#### Cat6 Patch Cable

##### U/UTP Stranded (305m) PVC

39-3100	Cat6 Grey U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3101	Cat6 Red U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3102	Cat6 Blue U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3103	Cat6 Green U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3104	Cat6 Yellow U/UTP PVC 24AWG Stranded Patch Cable 305m Box



### PART NO DESCRIPTION

39-3105	Cat6 Black U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3106	Cat6 Violet U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3107	Cat6 White U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3108	Cat6 Orange U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3109	Cat6 Pink U/UTP PVC 24AWG Stranded Patch Cable 305m Box

##### U/UTP Stranded (500m) PVC

39-3200	Cat6 Grey U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3202	Cat6 Blue U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3204	Cat6 Yellow U/UTP PVC 24AWG Stranded Patch Cable 500m Reel

##### U/UTP Stranded (305m) LSOH

39-3110	Cat6 Grey U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3111	Cat6 Red U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3112	Cat6 Blue U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3113	Cat6 Green U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3114	Cat6 Yellow U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3116	Cat6 White U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3118	Cat6 Orange U/UTP LSOH 24AWG Stranded Patch Cable 305m Box

##### U/UTP Stranded (500m) LSOH

39-3310	Cat6 Grey U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel
39-3316	Cat6 Violet U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel

##### S/FTP (PIMF) Stranded PVC

39-3402	Cat6 Blue S/FTP (PIMF) PVC 26AWG Stranded Patch Cable 500m Reel
39-3403	Cat6 Green S/FTP (PIMF) PVC 26AWG Stranded Patch Cable 500m Reel
39-3400	Cat6 Grey S/FTP (PIMF) PVC 26AWG Stranded Patch Cable 500m Reel
39-3401	Cat6 Red S/FTP (PIMF) PVC 26AWG Stranded Patch Cable 500m Reel
39-3404	Cat6 Yellow S/FTP (PIMF) PVC 26AWG Stranded Patch Cable 500m Reel



##### F/UTP Stranded (500m) LSOH

39-3405	Cat6 Grey F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3406	Cat6 Red F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3407	Cat6 Blue F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3408	Cat6 Green F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3409	Cat6 Yellow F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel
39-3410	Cat6 Black F/UTP LSOH 26AWG Stranded Patch Cable 500m Reel



## Cat6 Patch Cable | Cat5e Patch Cable

## Copper Networking



PART NO	DESCRIPTION
<b>U/UTP Stranded LSOH</b>	
39-3115	Cat6 Black U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3117	Cat6 Violet U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-3318	Cat6 Orange U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel

## Cat5e Patch Cable

## F/UTP Stranded (305m) PVC

39-3637	Cat5e Black F/UTP PVC 26AWG Stranded Patch Cable 305m Box
39-3632	Cat5e Grey F/UTP PVC 26AWG Stranded Patch Cable 305m Box
39-3634	Cat5e Red F/UTP PVC 26AWG Stranded Patch Cable 305m Box
39-3636	Cat5e Yellow F/UTP PVC 26AWG Stranded Patch Cable 305m Box

## F/UTP Stranded (500m) PVC

39-3732	Cat5e Grey F/UTP PVC 26AWG Stranded Patch Cable 500m Reel
39-3736	Cat5e Yellow F/UTP PVC 26AWG Stranded Patch Cable 500m Reel

## F/UTP Stranded (305m) LSOH

39-3642	Cat5e Grey F/UTP LSOH 26AWG Stranded Patch Cable 305m Box
39-3638	Cat5e Red F/UTP LSOH 26AWG Stranded Patch Cable 305m Box
39-3639	Cat5e Blue F/UTP LSOH 26AWG Stranded Patch Cable 305m Box
39-3640	Cat5e Green F/UTP LSOH 26AWG Stranded Patch Cable 305m Box
39-3641	Cat5e Yellow F/UTP LSOH 26AWG Stranded Patch Cable 305m Box
39-3643	Cat5e Black F/UTP LSOH 26AWG Stranded Patch Cable 305m Box

## U/UTP Stranded (305m) PVC

39-3620	Cat5e Black U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3628	Cat5e Blue U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3617	Cat5e Brown U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3627	Cat5e Green U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3625	Cat5e Grey U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3618	Cat5e Orange U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3619	Cat5e Pink U/UTP PVC 24AWG Stranded Patch Cable 305m Box



PART NO	DESCRIPTION
39-3626	Cat5e Red U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3630	Cat5e Violet U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3621	Cat5e White U/UTP PVC 24AWG Stranded Patch Cable 305m Box
39-3629	Cat5e Yellow U/UTP PVC 24AWG Stranded Patch Cable 305m Box

## U/UTP Stranded (500m) PVC

39-3520	Cat5e Black U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3528	Cat5e Blue U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3527	Cat5e Green U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3525	Cat5e Grey U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3518	Cat5e Orange U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3519	Cat5e Pink U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3526	Cat5e Red U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3530	Cat5e Violet U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3521	Cat5e White U/UTP PVC 24AWG Stranded Patch Cable 500m Reel
39-3529	Cat5e Yellow U/UTP PVC 24AWG Stranded Patch Cable 500m Reel

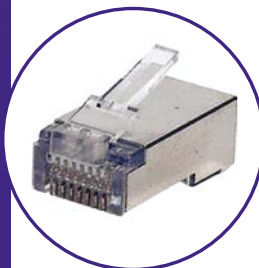
## U/UTP Stranded (305m) LSOH

39-7002	Cat5e Blue U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7003	Cat5e Green U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7000	Cat5e Grey U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7001	Cat5e Red U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7004	Cat5e Yellow U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7005	Cat5e Black U/UTP LSOH 24AWG Stranded Patch Cable 305m Box
39-7006	Cat5e White U/UTP LSOH 24AWG Stranded Patch Cable 305m Box

## U/UTP Stranded (500m) LSOH

39-7013	Cat5e Green U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel
39-7010	Cat5e Grey U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel
39-7018	Cat5e Orange U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel
39-7011	Cat5e Red U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel
39-7016	Cat5e Violet U/UTP LSOH 24AWG Stranded Patch Cable 500m Reel

# Copper Networking



PART NO	DESCRIPTION
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## RJ45 Plugs & Boots

22-2096	Cat6a RJ45 FTP Crimp Plug Large 8mm OD (PK 10) - Need Tool 87-2810
22-2098A	Cat6 RJ45 FTP 50u Crimp Plug Stranded (2 Part)
22-2100A	Cat6 RJ45 UTP 50u Crimp Plug Stranded (2 Part)
22-2106	Cat6 RJ45 UTP 50u Crimp Plug Solid/Stranded (1 Part)
22-2097	Cat6/Cat6a RJ45 FTP Plug Up To 7mm OD (3 Part)
22-2095	Cat5e RJ45 UTP Round Crimp Plug Solid
22-2101	Cat5e RJ45 UTP Flat Crimp Plug Stranded
22-2103	RJ45 UTP 50u Crimp Plug Stranded (Snagless)
22-2099	RJ45 UTP 3u Crimp Plug Stranded
22-2102	RJ45 STP 50u Crimp Plug Solid/Stranded
22-2142	RJ10 4P4C 24-26AWG Crimp Plug Stranded
22-2143	RJ11 6P4C 24-26AWG Crimp Plug Stranded
22-2131	RJ12 6P6C 24-26AWG Crimp Plug Stranded

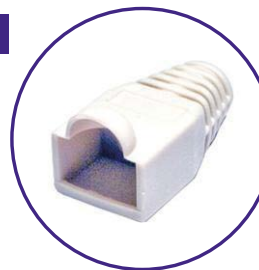
## RJ45 Snagless Boot 6.5mm

22-2059	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Grey 6.5mm
22-2060	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Red 6.5mm
22-2061	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Blue 6.5mm
22-2062	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Green 6.5mm
22-2063	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Yellow 6.5mm
22-2064	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Black 6.5mm
22-2065	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Violet 6.5mm
22-2066	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot White 6.5mm
22-2067	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Orange 6.5mm
22-2068	RJ45 Snagless Strain Relief Cat 6 Blade Flush Boot Pink 6.5mm

## RJ45 Cat6a Boot

22-2080	RJ45 Cat6a Bubble Boot Grey 6.5mm
22-2081	RJ45 Cat6a Bubble Boot Red 6.5mm
22-2082	RJ45 Cat6a Bubble Boot Blue 6.5mm
22-2083	RJ45 Cat6a Bubble Boot Green 6.5mm
22-2084	RJ45 Cat6a Bubble Boot Yellow 6.5mm
22-2085	RJ45 Cat6a Bubble Boot Orange 6.5mm
22-2086	RJ45 Cat6a Bubble Boot Black 6.5mm

## RJ45 Plugs & Boots



PART NO	DESCRIPTION
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22-2087	RJ45 Cat6a Bubble Boot Violet 6.5mm
22-2088	RJ45 Cat6a Bubble Boot White 6.5mm
22-2089	RJ45 Cat6a Bubble Boot Pink 6.5mm
22-2090	RJ45 Snagless Boot 8mm Clear for use with 22 2096
22-2091	RJ45 Snagless Boot 8mm Black for use with 22 2096

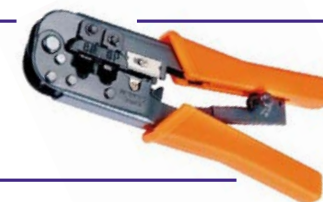
## RJ45 Bubble Boot

22-2108	RJ45 Bubble Boot Black 6mm
22-2109	RJ45 Bubble Boot Pink 6mm
22-2110	RJ45 Bubble Boot Blue 6mm
22-2111	RJ45 Bubble Boot White 6mm
22-2112	RJ45 Bubble Boot Orange 6mm
22-2113	RJ45 Bubble Boot Green 6mm
22-2116	RJ45 Bubble Boot Grey 6mm
22-2118	RJ45 Bubble Boot Red 6mm
22-2122	RJ45 Bubble Boot Violet 6mm
22-2124	RJ45 Bubble Boot Yellow 6mm

## Easy Plug RJ45 Solution

22-2205	Cat6 - RJ45 UTP EZ Easy Plug
22-2206	Cat6 - RJ45 FTP EZ Easy Plug
22-2203	Cat5e - RJ45 UTP EZ Easy Plug
22-2204	Cat5e - RJ45 FTP EZ Easy Plug
22-2093	EZ Easy Plug RJ45 Boot
87-2803	EZ Easy Plug Crimping Tool
87-2813	EZ Easy Plug Cable Stripper
22-2094	EZ Easy Plug Plastic Carrying Case

Please see page 35 for our range of RJ45 Tooling





# Custom Cables available from our In-House Workshop

In our in-house manufacturing facility, we manufacture thousands of cable assemblies per month and can make almost any type of cable or cable assembly, whether it be standard or custom cables.

Everything is produced to industry standards and to your specific requirements, from custom lengths, colours and labelling, to custom made assemblies. Our experienced technicians are fully trained in the termination of all types of copper connectors.

**For more information please call us on 01276 405300**



Interested in  
our Custom  
Pre-Terminated  
Fibre Optic Cable  
Assemblies?

Go to page 51 in the  
Fibre Networking  
section.





## Custom Cables available from our In-House Workshop (continued)



### Services offered by our in-house workshop include:

**TELCO Assemblies**  
**Cat5e U/UTP PVC**  
**Cat5e U/UTP LSOH**  
**Cat5e F/UTP PVC**  
**Cat6 U/UTP PVC**  
**Cat6 U/UTP LSOH**  
**Cat6 S/FTP PIMF**  
**Cat6a S/FTP LSOH**  
**S110 Cables**  
**RJ10/11/12 Cables**  
**Modular Adaptors**  
**24 Port Punchdown**  
**Hydra Cable**  
**Telco Panel**  
**Neutrik NAS cables**  
**BNC RG59 and**  
**RG58/ASB720**

**For precise lengths:**  
**BNC Panels**  
**Power Leads**  
**RG179 Cables**



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## What Does OM1 to OM5 Mean?

Multi-mode cables can be found in OM1, OM2, OM3 and OM4 types. Each type has different properties.

### OM5

OM5 New Standard developed when you are using Shortwave Wavelength Division Multiplexing (SWDM) applications. For 10 Gigabit and 100 Gigabit Ethernet it only transmits at the same distance as the low cost OM3 and OM4 Fibre. It has a suggested jacket colour of Lime Green. OM5 fibre, also known as WBMMF (wideband multimode fibre) at a minimum speed of 28Gbps per channel through the 850-953 nm window.



### OM4

It is a further improvement to OM3, uses a 50µm core and was developed specifically for VCSEL laser transmission and allows 10 Gigabit Ethernet up to 550m compared to 300m with OM3 and 100 Gigabit Ethernet at lengths up to 150 meters. Often supplied in a jacket colour of Erika Violet to differentiate it from OM3 . It is completely backwards compatible with OM3 fibre.



### OM3

Its core size is 50µm, but the cable is optimized for laser based equipment that uses fewer modes of light. As a result of this optimization, it is capable of running 10 Gigabit Ethernet at lengths up to 300 meters. Since its inception, production techniques have improved the overall capabilities of OM3 to enable its use with 40 Gigabit and 100 Gigabit Ethernet up to 100 meters. It has a suggested jacket colour of aqua .



### OM2

Its core size is 50µm and was the original fibre to support 10 Gigabit Ethernet but only up to 82 meters and has been superseded by OM3 and OM4.

### OM1

The original multimode fibre with a core size of 62.5 micrometres (µm). It can only support 10 Gigabit Ethernet at lengths up 33 meters. No longer a recognised LAN standard in data transmission.



## Ethernet Cabling Guidelines

	Multimode Fibre OM3	Multimode Fibre OM4	Multimode Fibre OM5	Singlemode Fibre OS2 1310mm	Singlemode Fibre OS2 1550mm
10BASE-T (10Mb/s)	2000m	2000m		N/S	N/S
100BASE-T (100Mb/s)	2000m	2000m		N/S	N/S
1000BASE-T (GbE)	550m	1000m		5000m	N/S
10GBASE-T (10GbE)	300m	550m	400m	10000m	40000m
40GBASE-T (40GbE)	100m	100m	150m	10000m	40000m
100GBASE-T (100GbE)	100m	150m	150m	10000m	40000m

N/S = Not Specified

## Advantages of Fibre Optic Cables

### Design and installation

Fibre is lightweight and thin, with a strong pulling strength. Its small size makes it easier to handle, and it takes up much less space in cabling ducts. Fibre networks also enable you to put all your electronics and hardware in one central location, instead of having wiring closets with equipment throughout the building.

### Greater bandwidth

Fibre provides greater bandwidth than copper and has standardized performance up to 10 Gbps along with futureproofing with speeds from 40 Gbps up to 400 Gbps.

### Immunity and reliability

Fibre provides extremely reliable data transmission. It is completely immune to many environmental factors and because the core is made of glass, which is an insulator, no electric current can flow through. It is immune to electromagnetic interference and radio-frequency interference (EMI/RFI), crosstalk and impedance problems.

### Low attenuation and greater distance

very little signal loss occurs during transmission, and data can move at higher speeds and greater distances. Fibre does not have the 100-metre distance limitation of copper and Fibre distances can range from 300 meters to 100s kilometres, depending on the cable type used, cable, wavelength, and network. Security Your data is safe with fibre cable. It does not radiate signals and is extremely difficult to tap. If the cable is tapped, it is very easy to monitor because the cable leaks light, causing the entire system to fail. If an attempt is made to break the physical security of your fibre system, you will know it.



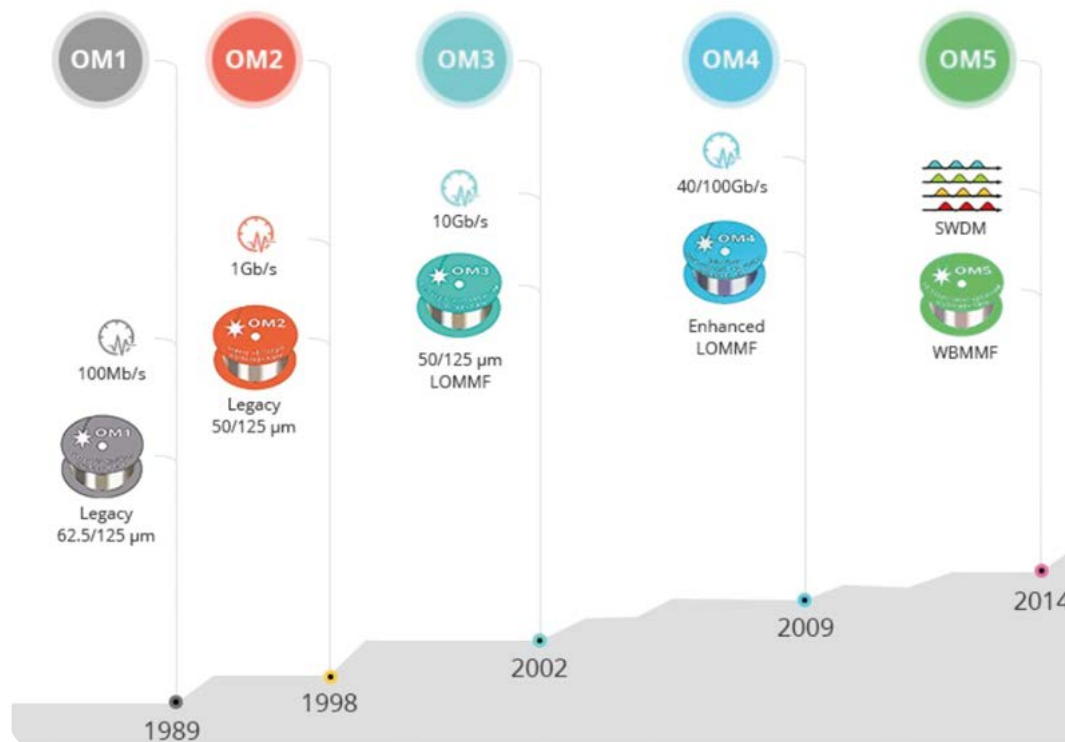
## What is the difference between Single mode UPC and APC?

Most of our customers are simply looking to minimize Insertion Loss and maximize Return Loss. This means they want as much light as possible to pass through the fibre to its destination and as little light as possible to bounce back to its source. For most applications, UPC will provide this for you. However, in some circumstances, you need more Return Loss than UPC can offer. That is when you use APC. If you have green connectors on your fibre or devices, you may need APC. APC is designed specifically to maximize return loss. APC ends are actually polished to have an  $\sim 8^\circ$  angle on the end of the fibre. An APC end will almost always have a green connector to make it clear that the fibre is APC. The part that is actually polished to an angle is so small that you won't be able to tell it is angled from looking at it.

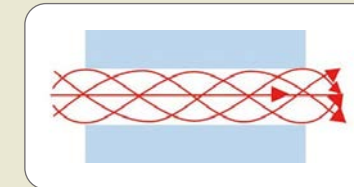
If you mix APC and UPC, the result can be tremendous insertion loss (meaning a lot of light will be lost at the point where you connect the APC to the UPC). So, if you have a port on your device that specifies it needs APC, you will need to use a cable with an APC end on it. If you have a cable with a green connector and you want to attach an adapter cable to the end, you will need to make sure an APC end connects to it.

## How many types of Multimode Fibre?

Identified by ISO 11801 standard, multimode fibre optic cables can be classified into OM1 fibre, OM2 fibre, OM3 fibre, OM4 fibre and newly released OM5 fibre. The next part will compare these fibres from the side of core size, bandwidth, data rate, distance, colour and optical source in details.



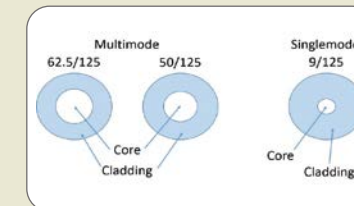
## Singlemode vs. Multimode



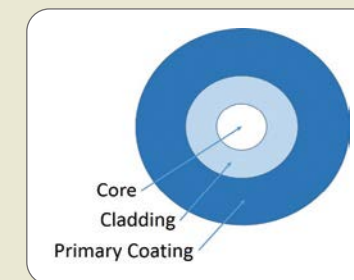
There are two types of Optical fibres, multimode and singlemode. In multimode fibres the light travels in multiple paths (modes) down the fibre, in a singlemode fibre the light travels as a single beam down the core of the fibre.



Single mode fibre is suitable for long distance applications, while multimode optical fibre is designed for short distance runs



Fibres are defined by the ratio between the diameter of the core and the diameter of the cladding, expressed in microns (thousandths of a millimetre). There are two constructions of multimode fibre (50/125 and 62.5/125) and one construction of singlemode fibre (9/125).



The glass fibres then have a coloured plastic primary coating that takes the overall diameter up to 250 microns. This provides protection and strength to the glass fibres and enables individual fibres to be identified at each end of a fibre optic cable.

Multi-mode fibre is typically cost effective for inside buildings or corporate campuses while single-mode is better suited for longer distance runs. Single-mode fibre can transmit over greater distances but typically requires more expensive equipment. Multi-mode is cost effective for installations where the lengths don't exceed a few hundred meters.

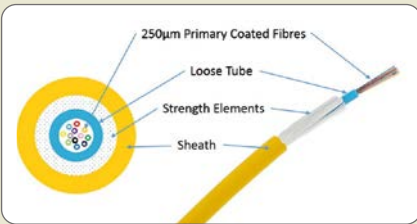


# FIBRE NETWORKING TECH TERMS

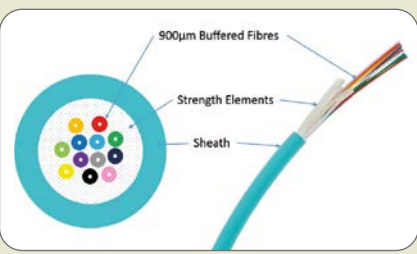
## Loose Tube vs. Tight Buffered

### Loose Tube Cables

Loose Tube fibre optic cables are the type that has traditionally been used in telecommunications networks where they are predominantly installed in external environments. The 250 micron primary coated fibres are contained within a plastic tube which may or may not contain a water blocking gel. One or more tubes are then surrounded by some form of strength member before an outer sheath is applied. The outer sheath may be PVC, LSZH or PE, depending on the environment in to which the cable will be installed. The construction of a typical single loose tube cable is shown below.



Each loose tube will typically contain 12 fibres, although some constructions have up to 24 fibres in each tube. The use of multiple tubes in a single cable sheath mean that cables with several hundred fibres can be produced.



### Tight Buffered Cables

A limitation of the loose tube fibre optic cable construction is its deployment in vertical cable runs. The 250 micron primary coated fibres are not supported in the loose tube which means that there can be significant stress on the fibres when installed vertically. One answer to this is to install loops of cable every 10m or so but the more common modern solution is to use a tight buffered construction.

The 250 micron primary coated fibres have an additional secondary coating (buffer) that has an overall diameter of 900 micron (0.9mm). The 900 micron buffered fibres are surrounded with a strength element and an overall sheath is then applied.

The strength elements may be Aramid Yarn or E-glass yarn and the sheath is typically a Universal Low Smoke Zero Halogen (ULSZH) material, making it suitable for use in both internal and external (when installed in a dry duct) environments. Tight buffered cables tend to have a maximum of 24 fibres but are suitable for both horizontal and vertical cable runs.

### CPR Cable



For Bulk Fibre Cables that are covered by CPR please see pages 115-116 in the DataCentre section. Please be aware that Fibre Patch Cords are NOT covered by CPR regulations.

## Connectors & Adaptors

### Fibre Optic Connectors

Unlike with copper cabling where one style of connector, the RJ45, dominates, with fibre there are a number of different connectors that can be used.

#### LC Connectors

The LC connector is sometimes referred to as a Small Form Factor (SFF) connector as it has much smaller dimensions than the SC connector. In fact it is possible to get twice as many fibres terminated on LC connectors in the space used by SC connectors. LC connectors have a simple latch, similar to that used on a RJ45 plug, making it familiar in use for network technicians. This has become the connector of choice in most new network fibre installations.



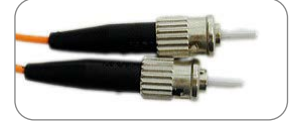
#### SC Connectors

The SC connector has a square format and has a push/pull latching mechanism. The image shows two SC connectors that have been joined using a special clip to create a SC Duplex connector with the A and B legs identified in the moulding of the clip.



#### ST Connectors

The ST connector has a round barrel and uses a bayonet fixing mechanism to secure it to the mating connector. It is not recommended for new installations and is only seen in legacy fibre deployments.



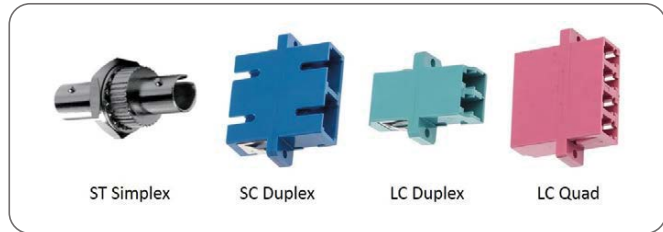
#### MPO/MTP® Connectors

The MPO or MTP® connector has larger dimensions than the LC Duplex connector but can accommodate up to 24 fibres in a single ferrule, making it ideal for high density installation. This style of connector is also finding favour in multi-channel fibre applications such as 40G and 100G Ethernet. However, the high precision nature of the connector means that it is not suitable for field termination.



### Fibre Optic Adaptors

The standard way of joining two fibres together at a patch interface is through the use of adaptors, sometimes also referred to as couplers. These devices consist of a plastic housing with precision alignment sleeves that are designed to ensure that the two fibre end faces are perfectly aligned when a fibre connector is inserted in to both sides of the adaptor. The adaptors are specific to the type of connector(s) to be mated. Some typical fibre adapters are shown below.







## Patch Cable Types Explained...

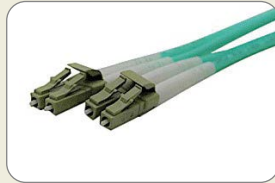
### Single Mode OS2 Patch Cable

OS2 Patch Cables are made to provide bandwidth used in long distance transmission. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Yellow. Each fibre cable is tested for insertion loss. Individual test results are provided.



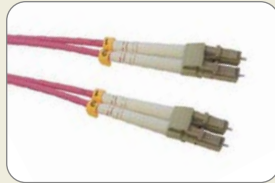
### 10 Gigabit 50µm OM3 Patch Cable

OM3 Patch Cables are made to provide bandwidth that will support transmission above 10 Gigabits and can be used for applications up to 300 metres. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Aqua Blue. Each fibre cable is tested for insertion loss. Individual test results are provided.



### 10 Gigabit 50µm OM4 Patch Cable

OM4 Patch Cables are made to provide bandwidth that will support transmission above 10 Gigabits and can be used for applications up to 550 metres. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Aqua Blue or Erika Violet. Each fibre cable is tested for insertion loss. Individual test results are provided.



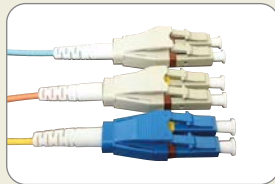
### Ruggedised Patch Cable

All our Ruggedised are manufactured with individual fibre cable in a Flat Twin design with an additional overall LSOH jacket for added protection. Single mode OS2 has a Yellow LSOH jacket and Multimode OM3 and OM4 fibre with an Aqua Blue Jacket. Each fibre cable is tested for insertion loss. Individual test results are provided.



### Uniboot LC Reverse Polarity Patch Cable

We can offer Uniboot LC Single and Multimode fibre patch cords offer a compact design and with a few simple steps the connector polarity can be reversed without any connector re-termination. Single mode OS2 has a Yellow LSOH jacket and Multimode OM3 and OM4 fibre with an Aqua Blue Jacket. Each fibre cable is tested for insertion loss. Individual test results are provided.



## What is Return Loss?

When light hits the end of a fibre optic cable, a portion of it can bounce back towards the source. This is known as Back Reflection and it can cause a few different problems. Return Loss is the term for how much the end of a cable cuts down on Back Reflection.

*You want as much Return Loss as possible.*

## What is Insertion Loss?

When light travels out of the port on your hardware into the fibre optic cable, some of it is lost in the transition. The amount that is lost is referred to as Insertion Loss.

*You want as little Insertion Loss as possible*

## Testing and Certifying Fibre Optic Cable

It is relatively easy to certify fibre optic cable because it is immune to electrical interference. You only need to check a few measurements.

**Attenuation.** Measured in decibels/kilometre (dB/km), this is the decrease of signal strength as it travels through the fibre cable. Generally, attenuation problems are more common on multimode fibre optic cables.

**Return loss.** This is the amount of light reflected from the far end of the cable back to the source. The lower the number, the better. For example, a reading of -60 decibels is better than -20 decibels. Like attenuation, return loss is usually greater with multimode cable.

**Graded refractive index.** This measure how the light is sent down the fibre. This is commonly measured at wavelengths of 850 and 1300 nanometres. Compared to other operating frequencies, these two ranges yield the lowest intrinsic power loss. (NOTE: This is valid for multimode fibre only.)

**Propagation delay.** This is the time it takes a signal to travel from one point to another over a transmission channel.

## Test Equipment

**Optical time-domain reflectometry (OTDR).** This enables you to isolate cable faults by transmitting high-frequency pulses onto a cable and examining their reflections along the cable. With OTDR, you can also determine the length of a fibre optic cable because the OTDR value includes the distance the optic signal travels.

**Fibre Optic Light Sources and Meters.** These fibre optic testers function by shining a light down one end of the cable and at the other end, there is a receiver calibrated to the strength of the light source. With this test, you can measure how much light is going to the other end of the cable. Generally, these testers give you the results in dB lost, which you then compare to the loss budget. If the measured loss is less than the number calculated by your loss budget, your installation is good.

Newer fibre optic testers have an even broader range of capabilities. They can test both 850- and 1300-nanometer signals at the same time and can even check your cable for compliance with specific standards.



# FIBRE NETWORKING TECH TERMS

## MPO

MPO or MTP (multi-fibre termination push-on) terminated cables are widely used in high-density data centres. The terms MPO and MTP are often used however MPO is the recognised a fibre connector type, while MTP is a registered trademark of an MPO connector manufactured by US Conec. All MTPs are MPOs but not all MPOs are MTPs. To the naked eye, there is little difference between the two connectors, and in cabling and transceiver interfaces, they are compatible with each other.

## MPO Design

MPO connectors are typically available with 8, 12, or 24 fibres with 32, 48, 60, or 72 fibres fibre counts available, but these are typically used for specialty super high-density multi-fibre arrays in large scale optical switches.

MPO connectors are either male (with alignment pins) or female (without alignment pins). In order to mate two MPO connectors together through an adapter, one connector must have pins and the other must be without pins. The role of the alignment pins is to ensure that fibres are facing each other perfectly, ensuring successful mating.

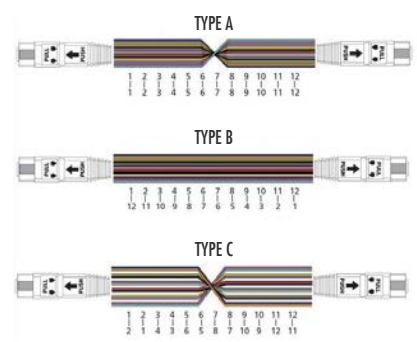
MPO connectors are often color-coded to help contractors distinguish between the different fibre types and polish specifications for single mode. MPO connectors are made for both single-mode and multimode multifibre cables. In single-mode OS2 applications, per Telecommunications Industry Association's (TIA) specification, the cable jacket is yellow. The connector colour will vary depending on the connector type. Ultra-Physical Contact (UPC) connectors will also be yellow, while Angled Physical Contact (APC) connectors are green. With multimode OM3/OM4, both MPO connectors and cable jacket will be aqua, per TIA specifications.

## MPO Polarity

Achieving polarity is another challenge with MPOs. Polarity defines the direction of the light path or flow and is called the A-B-Cs of fibre polarity. This is more complex with multi-fibre MPO cables and connectors. Industry standard TIA-568.3-D names three different polarity methods for MPOs: Method A, Method B, and Method C. Each method uses different types of MPO cables.

When examining a typical 12 fibre configurations, Method A uses a key up connector on one end and a key down connector on the other end so that the fibre located in Position 1 arrives at Position 1 at the other end. Method B uses key up connectors on both ends to achieve the transceiver-receiver flip so that the fibre located in Position 1 arrives at Position 12 at the opposite end, the fibre located in Position 2 arrives at Position 11 at the opposite end, and so on. Method C uses a key up connector on one end and a key down on the other end like Method A, but the flip happens within the cable itself where each pair of fibres is flipped so that the fibre in Position 1 arrives at Position 2 at the opposite end, and the fibre in Position 2 arrives at Position 1.

Whichever Method is chosen, Polarity needs to be consistent.



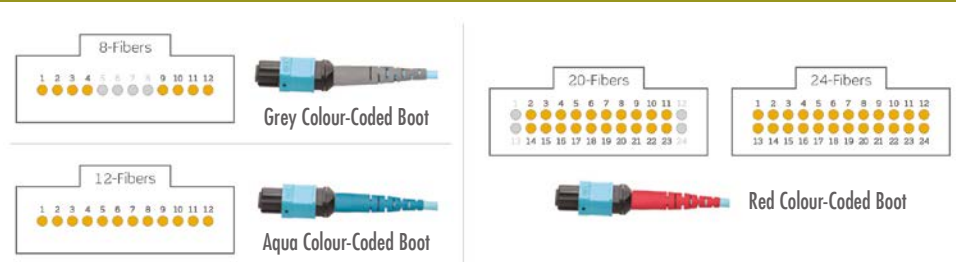
## MPO 8 Fibre, 12 Fibre and 24 Fibre

For density, 24-fibre cabling has an advantage over 12-fibre since the higher density in the enclosure leaves more rack space for active equipment, reducing the total amount of rack space required for patching. With 24-fibre, enclosures can have twice as many connections with the same number of ports compared to 12-fibre.

Also, 24-fibre cabling only needs half the number of cables with less space needed and improved airflow and reduced cooling costs.

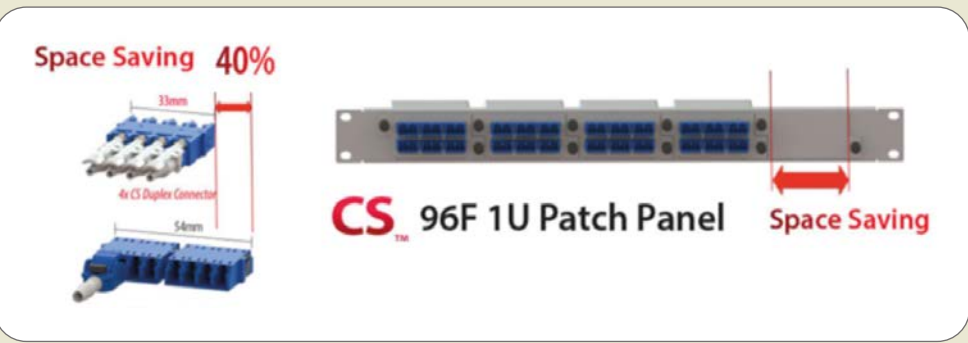
In a 8-fibre, parallel optic applications. A Base8 or 8-fibre cabling infrastructure actually uses 12-fibre MPO connectors to achieve 40, 100, 200, or 400 Gb/s channels. In these cases, only 8 of the 12 fibres are used, so a third of the connector capacity is dark or unused. Using a 24-fibre cabling infrastructure, you can run three 8-fibre channels in one connector.

### MPO CONNECTORS IN THE CHANNEL



### New VSFF Fibre Connectors for next-gen 200/400G transceiver QSFP-DD and OSFP

These new connectors will offer a 40% size reduction compared to LC Duplex, with performance exceeds LC and Double the density in patch panel compared to LC. For example, it will be possible to have 256F in a 1U Fibre panel.





# Custom Pre-Terminated Fibre Optic Cable Assemblies

- Premium Quality Products
- Custom Labelling
- Individually Tested
- B2B Confidentiality
- Flexible Configurations
- Delivery (UK/EU)
- Personalised Service

## Fibre Optic Workshop Capabilities

### Patch Cords

Cable Mode Standard	OM1, OM2, OM3, OM4, Singlemode
Fibre Cable Type	3.0mm, MiniZip, Flat Duplex or Round Duplex
Standard Connectors	ST, SC, LC, MU, E2000, LC Uniboot
APC Connectors	LC, FC, SC

### Pre-Terminated Multicore Assemblies Tight Buffered

Cable Mode Standard	OM1, OM2, OM3, OM4, Singlemode
Fibre Cable Type	3.0mm, MiniZip, Flat Duplex or Round Duplex
Standard Connectors	ST, SC, LC, MU, E2000, LC Uniboot
APC Connectors	LC, FC, SC
Cores	4 - 24 Core

### Custom Options Available

Assembly	Uniboot, MPO Assemblies, MPO Fan Outs, Ruggedised & Armoured, OM5
Cable Mode Standard	OM1, OM2, OM3, OM4, Singlemode
Fibre Cable Type	3.0mm, MiniZip, Flat Duplex or Round Duplex
Standard Connectors	ST, SC, LC, MU, E2000, LC Uniboot
Cores	4 - 24 Core, 48 Core with LC only

### Mini Breakout Assemblies for Direct to Equipment

Cable Mode Standard	OM3, Singlemode
Standard Connectors	SC, LC
APC Connectors	SC, LC

### Standard Colours

(other colours available on request)

	Singlemode	OM1	OM2	OM3	OM4
3.0mm Cable	Yellow	Green, Grey, Yellow	Orange, Black, Red, Yellow	Orange, Green, Grey, Yellow	Magenta, Red, Blue
Mini Zip 2.0mm	Yellow	Grey	Orange	Orange	
Flat Duplex Ruggedised	Yellow	Grey	Orange	Orange, Aqua	Magenta, Aqua

Yellow Green Grey Orange Black Red Aqua Magenta Blue

# Fibre Networking



PART NO	DESCRIPTION
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## Fibre Optic Pigtails

### OS2 Pigtails

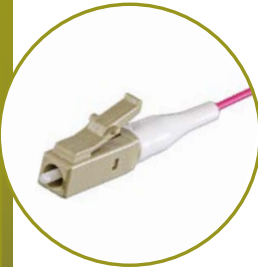
9FC1	1m OS2 9/125 FC Yellow Fibre Pigtail 900um
9LC1	1m OS2 9/125 LC Yellow Fibre Pigtail 900um
9ST1	1m OS2 9/125 ST Yellow Fibre Pigtail 900um
9SC1	1m OS2 9/125 SC Yellow Fibre Pigtail 900um
9APFC1	1m OS2 9/125 FC/APC Yellow Fibre Pigtail 900um
9APLC1	1m OS2 9/125 LC/APC Yellow Fibre Pigtail 900um

### OM4 Pigtails

4LC1	1m OM4 50/125 LC Aqua Fibre Pigtail 900um
4SC1	1m OM4 50/125 SC Aqua Fibre Pigtail 900um
EV4LC1	1m OM4 50/125 LC Violet Fibre Pigtail 900um

### OM3 Pigtails

3LC1	1m OM3 50/125 LC Aqua Fibre Pigtail 900um
3SC1	1m OM3 50/125 SC Aqua Fibre Pigtail 900um
3ST1	1m OM3 50/125 ST Aqua Fibre Pigtail 900um



## Fibre Optic Patch Leads

### OS2 3.00mm Fibre Leads YELLOW

#### OS2 - FC to FC LSOH

9FCFC1	1m OS2 9/125 FC-FC Duplex Yellow LSOH Fibre Patch Lead
9FCFC2	2m OS2 9/125 FC-FC Duplex Yellow LSOH Fibre Patch Lead
9FCFC3	3m OS2 9/125 FC-FC Duplex Yellow LSOH Fibre Patch Lead
9FCFC5	5m OS2 9/125 FC-FC Duplex Yellow LSOH Fibre Patch Lead
9FCFC10	10m OS2 9/125 FC-FC Duplex Yellow LSOH Fibre Patch Lead



PART NO	DESCRIPTION
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#### OS2 - FC to LC LSOH

9FCLC1	1m OS2 9/125 FC-LC Duplex Yellow LSOH Fibre Patch Lead
9FCLC2	2m OS2 9/125 FC-LC Duplex Yellow LSOH Fibre Patch Lead
9FCLC3	3m OS2 9/125 FC-LC Duplex Yellow LSOH Fibre Patch Lead
9FCLC5	5m OS2 9/125 FC-LC Duplex Yellow LSOH Fibre Patch Lead
9FCLC10	10m OS2 9/125 FC-LC Duplex Yellow LSOH Fibre Patch Lead

#### OS2 - FC to SC LSOH

9FCSC1	1m OS2 9/125 FC-SC Duplex Yellow LSOH Fibre Patch Lead
9FCSC2	2m OS2 9/125 FC-SC Duplex Yellow LSOH Fibre Patch Lead
9FCSC5	5m OS2 9/125 FC-SC Duplex Yellow LSOH Fibre Patch Lead

#### OS2 - FC to ST LSOH

9FCST1	1m OS2 9/125 FC-ST Duplex Yellow LSOH Fibre Patch Lead
9FCST2	2m OS2 9/125 FC-ST Duplex Yellow LSOH Fibre Patch Lead
9FCST3	3m OS2 9/125 FC-ST Duplex Yellow LSOH Fibre Patch Lead
9FCST5	5m OS2 9/125 FC-ST Duplex Yellow LSOH Fibre Patch Lead
9FCST10	10m OS2 9/125 FC-ST Duplex Yellow LSOH Fibre Patch Lead

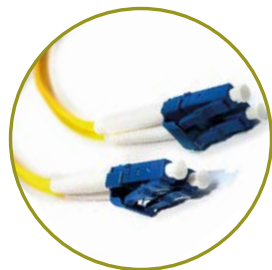
#### OS2 - LC to LC LSOH

9LCLC03	0.3m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC05	0.5m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC1	1m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC1.5	1.5m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC2	2m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC2.5	2.5m OS2 9/125 LC-UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCLC3	3m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC4	4m OS2 9/125 LC-UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCLC5	5m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC6	6m OS2 9/125 LC-UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead



## Fibre Optic Patch Leads

## Fibre Networking



PART NO	DESCRIPTION
<b>Fibre Optic Patch Leads &gt; OS2 3.00mm Fibre Leads YELLOW</b>	
9LCLC7	7m OS2 9/125 LC UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCLC8	8m OS2 9/125 LC UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCLC10	10m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC15	15m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC20	20m OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
9LCLC25	25m OS2 9/125 LC UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCLC30	30m OS2 9/125 LC UPC - LC UPC Duplex Yellow LSOH Fibre Patch Lead

### OS2 - LC to SC LSOH

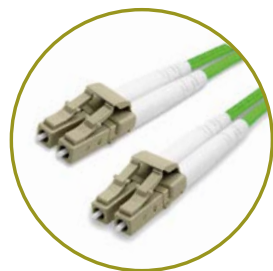
9LCSC05	0.5m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC1	1m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC1.5	1.5m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC2	2m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC3	3m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC4	4m OS2 9/125 LC UPC - SC UPC Duplex Yellow LSOH Fibre Patch Lead
9LCSC5	5m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC10	10m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC15	15m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC20	20m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead
9LCSC30	30m OS2 9/125 LC-SC Duplex Yellow LSOH Fibre Patch Lead

### OS2 - LC to ST LSOH

9LCST05	0.5m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST1	1m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST2	2m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST3	3m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST5	5m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST10	10m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST15	15m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead
9LCST20	20m OS2 9/125 LC-ST Duplex Yellow LSOH Fibre Patch Lead

### OS2 - SC to SC LSOH

9SCSC05	0.5m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC1	1m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC2	2m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC3	3m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC5	5m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC10	10m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC15	15m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead



PART NO	DESCRIPTION
9SCSC20	20m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
9SCSC30	30m OS2 9/125 SC-SC Duplex Yellow LSOH Fibre Patch Lead
<b><u>OS2 - ST to SC LSOH</u></b>	
9STSC05	0.5m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead
9STSC1	1m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead
9STSC2	2m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead
9STSC3	3m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead
9STSC5	5m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead
9STSC10	10m OS2 9/125 ST-SC Duplex Yellow LSOH Fibre Patch Lead

### **OS2 - ST to ST LSOH**

9STST1	1m OS2 9/125 ST-ST Duplex Yellow LSOH Fibre Patch Lead
9STST2	2m OS2 9/125 ST-ST Duplex Yellow LSOH Fibre Patch Lead
9STST3	3m OS2 9/125 ST-ST Duplex Yellow LSOH Fibre Patch Lead
9STST5	5m OS2 9/125 ST-ST Duplex Yellow LSOH Fibre Patch Lead
9STST10	10m OS2 9/125 ST-ST Duplex Yellow LSOH Fibre Patch Lead

### **OM5 3.00mm Fibre Leads LIME GREEN**

#### **OM5 - LC to LC LSOH**

5LCLC05	0.5m OM5 50/125 LC-LC Duplex Lime Green LSOH Fibre Patch Lead
5LCLC1	1m OM5 50/125 LC-LC Duplex Lime Green LSOH Fibre Patch Lead
5LCLC2	2m OM5 50/125 LC-LC Duplex Lime Green LSOH Fibre Patch Lead
5LCLC3	3m OM5 50/125 LC-LC Duplex Lime Green LSOH Fibre Patch Lead
5LCLC5	5m OM5 50/125 LC-LC Duplex Lime Green LSOH Fibre Patch Lead

### **OM4 3.00mm Fibre Leads AQUA**

#### **OM4 - LC to LC LSOH**

4LCLC05	0.5m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC1	1m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC1.5	1.5m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC2	2m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC2.5	2.5m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC3	3m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC4	4m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC5	5m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC6	6m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC7	7m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC8	8m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCLC10	10m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead

# Fibre Networking

## Fibre Optic Patch Leads



PART NO	DESCRIPTION
<b>Fibre Optic Patch Leads &gt; OM4 3.00mm Fibre Leads AQUA</b>	
4LCCL15	15m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCCL20	20m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCCL25	25m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCCL30	30m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
4LCCL50	50m OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead

### OM4 - LC to SC LSOH

4LCSC05	0.5m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC1	1m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC2	2m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC3	3m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC4	4m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC5	5m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
4LCSC10	10m OM4 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead

### OM4 - LC to ST LSOH

4LCST05	0.5m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
4LCST1	1m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
4LCST2	2m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
4LCST3	3m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
4LCST5	5m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
4LCST10	10m OM4 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead

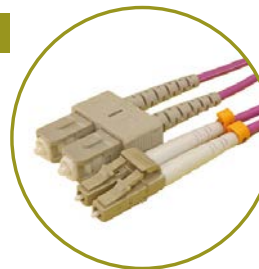
### OM4 - SC to SC LSOH

4SCSC05	0.5m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
4SCSC1	1m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
4SCSC2	2m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
4SCSC3	3m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
4SCSC5	5m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
4SCSC10	10m OM4 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead

### OM4 3.00mm Fibre Leads VIOLET

#### OM4 - LC to LC LSOH

EV4LCLC05	0.5m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC1	1m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC1.5	1.5m OM4 50/125 LC-LC Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCLC2	2m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC3	3m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC5	5m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead



PART NO	DESCRIPTION
EV4LCLC10	10m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC15	15m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
EV4LCLC20	20m OM4 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead

### OM4 - LC to SC LSOH

EV4LCSC1	1m OM4 50/125 LC-SC Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCSC2	2m OM4 50/125 LC-SC Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCSC3	3m OM4 50/125 LC-SC Duplex Erika Violet LSOH Fibre Patch Lead

### OM4 - ST to SC LSOH

EV4STSC1	1m OM4 50/125 ST-SC Duplex Erika Violet LSOH Fibre Patch Lead
EV4STSC2	2m OM4 50/125 ST-SC Duplex Erika Violet LSOH Fibre Patch Lead
EV4STSC3	3m OM4 50/125 ST-SC Duplex Erika Violet LSOH Fibre Patch Lead

### OM4 - LC to ST LSOH

EV4LCST1	1m OM4 50/125 LC-ST Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCST2	2m OM4 50/125 LC-ST Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCST3	3m OM4 50/125 LC-ST Duplex Erika Violet LSOH Fibre Patch Lead
EV4LCST5	5m OM4 50/125 LC-ST Duplex Erika Violet LSOH Fibre Patch Lead

### OM4 3.00mm Fibre Leads ORANGE

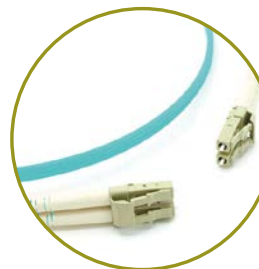
#### OM4 - LC to LC LSOH

OR4LCLC1	1m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR4LCLC1.5	1.5m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR4LCLC2	2m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR4LCLC3	3m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead

### OM3 3.00mm Fibre Leads AQUA

#### OM3 - LC to LC LSOH

3LCLC03	0.3m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC05	0.5m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC1	1m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC1.5	1.5m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC2	2m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC2.5	2.5m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC3	3m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC3.5	3.5m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC4	4m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC5	5m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC6	6m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead



## Fibre Optic Patch Leads

## Fibre Networking

### PART NO DESCRIPTION

#### Fibre Optic Patch Leads > OM3 3.00mm Fibre Leads AQUA

3LCLC7	7m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC8	8m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC10	10m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC15	15m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC20	20m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC25	25m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC30	30m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
3LCLC40	40m OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead

#### OM3 - LC to SC LSOH

3LCSC05	0.5m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC1	1m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC2	2m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC3	3m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC5	5m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC10	10m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC15	15m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC20	20m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead
3LCSC30	30m OM3 50/125 LC-SC Duplex Aqua LSOH Fibre Patch Lead

#### OM3 - LC to ST LSOH

3LCST05	0.5m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST1	1m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST2	2m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST3	3m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST5	5m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST10	10m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST15	15m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead
3LCST20	20m OM3 50/125 LC-ST Duplex Aqua LSOH Fibre Patch Lead

#### OM3 - SC to SC LSOH

3SCSC05	0.5m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
3SCSC1	1m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
3SCSC2	2m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
3SCSC3	3m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
3SCSC5	5m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead
3SCSC10	10m OM3 50/125 SC-SC Duplex Aqua LSOH Fibre Patch Lead

### PART NO DESCRIPTION

#### OM3 - ST to SC LSOH

3STSC1	1m OM3 50/125 ST-SC Duplex Aqua LSOH Fibre Patch Lead
3STSC2	2m OM3 50/125 ST-SC Duplex Aqua LSOH Fibre Patch Lead
3STSC3	3m OM3 50/125 ST-SC Duplex Aqua LSOH Fibre Patch Lead
3STSC5	5m OM3 50/125 ST-SC Duplex Aqua LSOH Fibre Patch Lead
3STSC10	10m OM3 50/125 ST-SC Duplex Aqua LSOH Fibre Patch Lead

#### OM3 - ST to ST LSOH

3STST1	1m OM3 50/125 ST-ST Duplex Aqua LSOH Fibre Patch Lead
3STST2	2m OM3 50/125 ST-ST Duplex Aqua LSOH Fibre Patch Lead
3STST3	3m OM3 50/125 ST-ST Duplex Aqua LSOH Fibre Patch Lead
3STST5	5m OM3 50/125 ST-ST Duplex Aqua LSOH Fibre Patch Lead
3STST10	10m OM3 50/125 ST-ST Duplex Aqua LSOH Fibre Patch Lead

#### OM3 3.00mm Fibre Leads ORANGE

#### OM3 - LC to LC LSOH

OR3LCLC05	0.5m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC1	1m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC1.5	1.5m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC2	2m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC2.5	2.5m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC3	3m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC4	4m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC5	5m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC10	10m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
OR3LCLC15	15m OM3 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead

#### OM3 - LC to SC LSOH

OR3LCSC05	0.5m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
OR3LCSC1	1m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
OR3LCSC2	2m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
OR3LCSC3	3m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
OR3LCSC5	5m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
OR3LCSC10	10m OM3 50/125 LC-SC Duplex Orange LSOH Fibre Patch Lead

#### OM3 - LC to ST LSOH

OR3LCST05	0.5m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
OR3LCST1	1m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
OR3LCST2	2m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
OR3LCST3	3m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead



# Fibre Networking



## PART NO DESCRIPTION

### Fibre Optic Patch Leads > OM3 3.00mm Fibre Leads ORANGE

OR3LCST5	5m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
OR3LCST10	10m OM3 50/125 LC-ST Duplex Orange LSOH Fibre Patch Lead

### OM3 - SC to SC LSOH

OR3SCSC1	1m OM3 50/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
OR3SCSC2	2m OM3 50/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
OR3SCSC3	3m OM3 50/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
OR3SCSC5	5m OM3 50/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
OR3SCSC10	10m OM3 50/125 SC-SC Duplex Orange LSOH Fibre Patch Lead

### OM3 - ST to SC LSOH

OR3STSC05	0.5m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
OR3STSC1	1m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
OR3STSC2	2m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
OR3STSC3	3m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
OR3STSC5	5m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
OR3STSC10	10m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead

### OM3 - ST to ST LSOH

OR3STST05	0.5m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
OR3STST1	1m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
OR3STST2	2m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
OR3STST3	3m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
OR3STST5	5m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
OR3STST10	10m OM3 50/125 ST-ST Duplex Orange LSOH Fibre Patch Lead

### OM3 3.00mm Fibre Leads RED

### OM3 - LC to LC LSOH

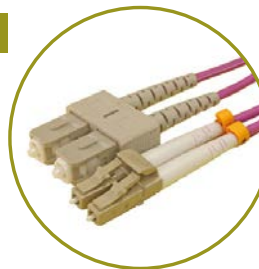
RE3LCLC3	3m OM3 50/125 LC-LC Duplex Red LSOH Fibre Patch Lead
RE4LCLC5	5m OM4 50/125 LC-LC Duplex Red LSOH Fibre Patch Lead

### OM3 3.00mm Fibre Leads VIOLET

### OM3 - LC to LC LSOH

VT3LCLC05	0.5m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
VT3LCLC1	1m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
VT3LCLC2	2m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
VT3LCLC3	3m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
VT3LCLC5	5m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead
VT3LCLC10	10m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead

# Fibre Optic Patch Leads



## PART NO DESCRIPTION

### OM3 - LC to SC LSOH

VT3LCSC1	1m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC1.5	1.5m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC2	2m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC3	3m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC5	5m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC15	15m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead
VT3LCSC20	20m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead

### OM3 - LC to ST LSOH

VT3LCST2	2m OM3 50/125 LC-ST Duplex Violet LSOH Fibre Patch Lead
VT3LCST3	3m OM3 50/125 LC-ST Duplex Violet LSOH Fibre Patch Lead
VT3LCST5	5m OM3 50/125 LC-ST Duplex Violet LSOH Fibre Patch Lead
VT3LCST10	10m OM3 50/125 LC-ST Duplex Violet LSOH Fibre Patch Lead

### OM3 - SC to SC LSOH

VT3SCSC05	0.5m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC1	1m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC3	3m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC5	5m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC15	15m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC20	20m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead
VT3SCSC25	25m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead

### OM3 - ST to SC LSOH

VT3STSC2	2m OM3 50/125 ST-SC Duplex Violet LSOH Fibre Patch Lead
VT3STSC3	3m OM3 50/125 ST-SC Duplex Violet LSOH Fibre Patch Lead
VT3STSC5	5m OM3 50/125 ST-SC Duplex Violet LSOH Fibre Patch Lead
VT3STSC15	15m OM3 50/125 ST-SC Duplex Violet LSOH Fibre Patch Lead
VT3STSC20	20m OM3 50/125 ST-SC Duplex Violet LSOH Fibre Patch Lead

### OM1 3.00mm Fibre Leads ORANGE

### OM1 - LC to LC LSOH

62LCLC05	0.5m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
62LCLC1	1m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
62LCLC2	2m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead

**OM2 Fibre Leads available on request**  
Please contact our sales team for more details.

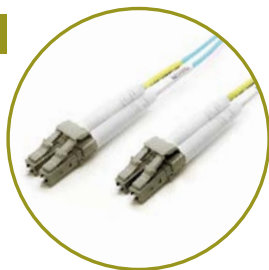


# Fibre Optic Patch Leads | Minizip Fibre Optic Patch Leads

# Fibre Networking



PART NO	DESCRIPTION
<b>Fibre Optic Patch Leads &gt; OM1 3.00mm Fibre Leads ORANGE</b>	
62LCLC3	3m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
62LCLC5	5m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
62LCLC10	10m OM1 62.5/125 LC-LC Duplex Orange LSOH Fibre Patch Lead
<b>OM1 - LC to SC LSOH</b>	
62LCSC05	0.5m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
62LCSC1	1m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
62LCSC2	2m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
62LCSC3	3m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
62LCSC5	5m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
62LCSC10	10m OM1 62.5/125 LC-SC Duplex Orange LSOH Fibre Patch Lead
<b>OM1 - LC to ST LSOH</b>	
62LCST05	0.5m OM1 62.5/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
62LCST1	1m OM1 62.5/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
62LCST2	2m OM1 62.5/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
62LCST3	3m OM1 62.5/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
62LCST5	5m OM1 62.5/125 LC-ST Duplex Orange LSOH Fibre Patch Lead
<b>OM1 - SC to SC LSOH</b>	
62SCSC1	1m OM1 62.5/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
62SCSC2	2m OM1 62.5/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
62SCSC3	3m OM1 62.5/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
62SCSC10	10m OM1 62.5/125 SC-SC Duplex Orange LSOH Fibre Patch Lead
<b>OM1 - ST to SC LSOH</b>	
62STSC1	1m OM1 62.5/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
62STSC2	2m OM1 62.5/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
62STSC3	3m OM1 62.5/125 ST-SC Duplex Orange LSOH Fibre Patch Lead
<b>OM1 - ST to ST LSOH</b>	
62STST1	1m OM1 62.5/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
62STST2	2m OM1 62.5/125 ST-ST Duplex Orange LSOH Fibre Patch Lead
62STST3	3m OM1 62.5/125 ST-ST Duplex Orange LSOH Fibre Patch Lead



PART NO	DESCRIPTION
<b>OM3 1.8mm MINIZIP Leads AQUA</b>	
<b>OM3 - LC to LC LSOH</b>	
MZ3LCLC05	0.5m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC1	1m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC1.5	1.5m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC2	2m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC3	3m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC4	4m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC5	5m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC10	10m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC15	15m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC20	20m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCLC30	30m OM3 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
<b>OM3 - LC to SC LSOH</b>	
MZ3LCSC05	0.5m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC1	1m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC2	2m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC3	3m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC5	5m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC10	10m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC15	15m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC20	20m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ3LCSC30	30m OM3 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
<b>OM4 1.8mm MINIZIP Leads AQUA</b>	
<b>OM4 - LC to LC LSOH</b>	
MZ4LCLC05	0.5m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC1	1m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC1.5	1.5m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC2	2m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC3	3m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC4	4m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC5	5m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC10	10m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC15	15m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC20	20m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LCLC30	30m OM4 50/125 LC-LC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead

See our Fibre Workshop cable options on Page 51

# Fibre Networking

## Minizip Fibre Optic Patch Leads | Uniboats (Reverse Polarity)



PART NO	DESCRIPTION
<b>Fibre Optic Patch Leads &gt; OM4 1.8mm MINIZIP Leads AQUA</b>	
<b>OM4 - LC to SC LSOH</b>	
MZ4LSC05	0.5m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC1	1m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC2	2m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC3	3m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC10	10m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC15	15m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead
MZ4LSC20	20m OM4 50/125 LC-SC Duplex Aqua LSOH 1.8mm Minizip Fibre Patch Lead

### OS2 1.8mm MINIZIP Leads YELLOW

<b>OS2 - LC to LC LSOH</b>	
MZ9LCL05	0.5m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL075	0.75m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL1	1m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL1.5	1.5m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL2	2m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL3	3m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL5	5m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL10	10m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL15	15m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL20	20m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LCL30	30m OS2 9/125 LC-LC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead

<b>OS2 - LC to SC LSOH</b>	
MZ9LSC05	0.5m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC1	1m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC2	2m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC3	3m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC5	5m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC10	10m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC15	15m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9LSC30	30m OS2 9/125 LC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead



PART NO	DESCRIPTION
<b>OS2 - SC to SC LSOH</b>	
MZ9SCSC05	0.5m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC1	1m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC2	2m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC3	3m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC5	5m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC7	7m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead
MZ9SCSC10	10m OS2 9/125 SC-SC Duplex Yellow LSOH 1.8mm Minizip Fibre Patch Lead

### Uniboats (Reverse Polarity)

#### Uniboot (reverse polarity) LC Duplex Patch Leads

<b>OM3 - LC to LC LSOH</b>	
UNI3LCL1	1m Uniboot OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI3LCL1.5	1.5m Uniboot OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI3LCL2	2m Uniboot OM3 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
<b>OM4 - LC to LC LSOH</b>	
UNI4LCL0.5	0.5m Uniboot OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI4LCL1	1m Uniboot OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI4LCL1.5	1.5m Uniboot OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI4LCL2	2m Uniboot OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead
UNI4LCL3	3m Uniboot OM4 50/125 LC-LC Duplex Aqua LSOH Fibre Patch Lead

<b>OS2 - LC to LC LSOH</b>	
UNI9LCL05	0.5m Uniboot OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
UNI9LCL1	1m Uniboot OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
UNI9LCL1.5	1.5m Uniboot OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
UNI9LCL2	2m Uniboot OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead
UNI9LCL3	3m Uniboot OS2 9/125 LC-LC Duplex Yellow LSOH Fibre Patch Lead

Other lengths are available. Please contact our sales team for more details.

We also offer APC Single Mode Assemblies



## XXtreme External IP67 Fibre Patch Leads | MPO Breakout Cable

## XXtreme External IP67 Fibre Patch Leads



## IP67 Waterproof Fibre Assemblies

IP67 Waterproof Fibre Patch Cables and IP67 Fibre Optic Adapters are reliable and cost-effective solutions for cabling in harsh environments. To provide robust protection for Fibre links, the designs of IP67 Waterproof Fibre Patch Cables and Adapters are different from the standard ones, especially around the contact interfaces. The picture to the right shows the structures an IP67 LC Fibre cable and an IP67 LC Fibre adapter.

PART NO	DESCRIPTION
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<b>IP67 LC-LC/SC-SC Fibre Patch Cable</b>	
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IP67 LC to IP67 LC (Duplex), IP67 SC to IP67 SC (Simplex) single-mode Waterproof Fibre patch cables are designed to fit for outdoor applications. There are two types of IP67 LC/SC waterproof connector: IP67 plug and IP67 socket. The plug of one cable and the socket of the other cable can be connected to extend the cable length. These LC-LC/SC-SC waterproof Fibre patch cables will not get damage even when stepped on, and are anti-rodents, and suitable to use in harsh environments.	
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<b>IP67 LC - IP67 LC</b>	
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XE68-9LCLC1	1m OS2 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-9LCLC2	2m OS2 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-9LCLC5	5m OS2 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-9LCLC10	10m OS2 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-9LCLC20	20m OS2 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-3LCLC1	1m OM3 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-3LCLC10	10m OM3 IP67 LC - IP67 LC Duplex Black IP67 XXtreme External Fibre Patch Lead

<b>IP67 LC - LC</b>	
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XE68-3IPLCLC1	1m OM3 IP67 LC - LC Duplex Black IP67 XXtreme External Fibre Patch Lead
XE68-3IPLCLC10	10m OM3 IP67 LC - LC Duplex Black IP67 XXtreme External Fibre Patch Lead

These cables are made to order, please contact our sales team for more information.



PART NO	DESCRIPTION
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<b>IP67 Fibre Adapter</b>	
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IP67 MPO bulkhead adapter is designed to provide a MPO cable to equipment fiber optic connection. The adapter meets IP67 environmental sealing ratings and is the ideal choice for a low cost and easy to use solution in Industrial, FTTA, or any other harsh environmental applications. The dust cap is the ideal way to protect ruggedized patch cords from exposure to elements or accidental damage when not mated to an outlet in your ruggedized cabling system.	
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XE68-2140	IP67 Bulkhead Adapter
XE68-2141	IP67 Rate Inline Adapter

## MPO Breakout Cable

OM3 MPO Breakout Cable **AQUA**

MPO-F-4LCDX-OM3-01M	1m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-02M	2m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-03M	3m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-05M	5m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-10M	10m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-20M	20m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B

OM4 MPO Breakout Cable **AQUA**

MPO-F-4LCDX-OM4-01M	1m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-02M	2m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-03M	3m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-05M	5m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-10M	10m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-20M	20m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B

Please see our  
**XXTREME IP67 External  
Solid Patch Leads  
on Page 23**





# Fibre Networking

## MPO Trunk Cable | Ruggedised Fibre Optic Leads | Armoured Ruggedised Patch Leads | APC Fibre Optic Patch Leads



PART NO	DESCRIPTION
<b>OS2 MPO Breakout Cable YELLOW</b>	
MPO-F-4LCDX-OS2-01M	1m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-02M	2m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-03M	3m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-05M	5m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-10M	10m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-20M	20m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B



<b>MPO Trunk Cable</b>	
<b>OM3 MPO Trunk Cable AQUA</b>	
MPO-FF-OM3-B-12-01M	1m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-1.5M	1.5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-02M	2m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-03M	3m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-05M	5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-7.5M	7.5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-10M	10m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-15M	15m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-20M	20m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-25M	25m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-30M	30m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-50M	50m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B



<b>OM4 MPO Trunk Cable AQUA</b>	
MPO-FF-OM4-B-12-01M	1m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-1.5M	1.5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-02M	2m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-03M	3m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-05M	5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-7.5M	7.5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-10M	10m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-15M	15m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-20M	20m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-25M	25m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-30M	30m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-50M	50m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B



<b>OS2 MPO Trunk Cable YELLOW</b>	
MPO-FF-OS2-B-12-01M	1m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-02M	2m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-03M	3m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-05M	5m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-10M	10m OS2 MPO(F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-20M	20m OS2 MPO(F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B



<b>Ruggedised Fibre Optic Leads</b>	
RUG3LCLC1	1m Ruggedised (Flat-Twin) OM3 50/125 LC-LC Aqua Fibre Patch Lead
RUG4LCLC1	1m Ruggedised (Flat-Twin) OM4 50/125 LC-LC Aqua Fibre Patch Lead
RUG9LCLC1	1m Ruggedised (Flat-Twin) OS2 9/125 LC-LC Aqua Fibre Patch Lead



<b>Armoured Ruggedised Patch Leads</b>	
RUGA3LCLC1	1m Armoured Ruggedised OM3 50/125 LC-LC Aqua Fibre Patch Lead
RUGA4LCLC1	1m Armoured Ruggedised OM4 50/125 LC-LC Aqua Fibre Patch Lead
RUGA9LCLC1	1m Armoured Ruggedised OS2 9/125 LC-LC Yellow Fibre Patch Lead



<b>APC Fibre Optic Patch Leads</b>	
9APCSLCLC1	1m OS2 9/125 LC APC - LC APC Simplex Yellow LSOH Fibre Patch Lead
9APCDLCLC1	1m OS2 9/125 LC APC - LC APC Duplex Yellow LSOH Fibre Patch Lead

**For CPR rated MPO Trunk & Breakout cables please see pages 115-116 in our DataCentre section**



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<b>PDUs - IEC C13 Vertical .....</b>	<b>69</b>
<b>POD Desktop Power .....</b>	<b>69</b>





## Power Connection Guide

## IEC 60320-1 Appliance Couplers

Connector (Female)	Appliance Inlet (Male)	Diagram	Earth Contact	Rewirable Connector Allowed?	Max. Current (A)	Remarks and Example Uses
BS1363	BS1363		✓	✓	13	Commonly known as UK Main Lead.
C5	C6		✓	✗	2.5	This coupler is sometimes colloquially called a cloverleaf coupler or "Mickey Mouse". Commonly used on laptop power supplies and portable projectors, as well as on some desktop computers and recent LCD televisions from LG.
C7	C8		✗	✗	2.5	The C7 coupler is commonly referred to as a "Figure of Eight".
C13	C14		✓	✓	10	Very common on personal computers and peripherals. Commonly but incorrectly referred to as a "kettle cord" or "kettle lead", but kettles actually require the C15/C16.
C15	C16		✓	✓	10	For use in high temperature settings, for example, electric kettle, computer networking closets. The official designation in Europe for the C15/C16 coupler is a 'hot condition' coupler.
C19	C20		✓	✓	16	This coupler is used for some IT applications where higher currents are required, as for instance, on high-power workstations and servers, uninterruptible power supplies, power distribution units, large network routers, and switches.
C21	C22		✓	✓	16	High-temperature variant of C19/C20.

# Power Leads & PDUs



## PART NO DESCRIPTION

### UK Mains Cables

42-0542	2m IEC C14 - Right Angle IEC C13 Black PVC 1.0mm Power Leads
42-0544	2m UK (5Amp) - Right Angle IEC C13 Black PVC 0.75mm Power Lead
42-0545	2m UK (13Amp) - IEC C15 Hot Condition Black H05RN-F 1.0mm Power Lead
42-0557	0.5m UK (5Amp) - IEC C13 Black PVC 0.75mm Power Lead
42-0558	1m UK (5Amp) - IEC C13 Black PVC 0.75mm Power Lead
42-0559	2m UK (5Amp) - IEC C13 Black PVC 0.75mm Power Lead
42-2887	3m UK (5Amp) - IEC C13 Black PVC 1.0mm Power Lead
42-2888	5m UK (5Amp) - IEC C13 Black PVC 1.0mm Power Lead
42-2901	10m UK (5Amp) - IEC C13 Black PVC 1.0mm Power Lead
42-3287	2m UK (13Amp) - IEC C13 Black PVC 1.0mm Power Lead
42-3547	2.5m UK (13Amp) - 2 x IEC C13 0.5m Legs Black PVC Power Lead
42-3548	2.5m UK (13Amp) - 2 x IEC C13 1.5m Legs Black PVC Power Lead
42-0560	2m UK (5Amp) - IEC C5 Cloverleaf Black PVC 0.75mm Power Lead
42-0579	5m UK (5Amp) - IEC C5 Cloverleaf Black PVC 0.75mm Power Lead
42-2593	5m UK (3Amp) - IEC C7 Figure of 8 Black PVC 0.75mm Power Lead
42-2594	2m UK (3Amp) - IEC C7 Figure of 8 Black PVC 0.75mm Power Lead

### International Mains Cables

42-0546	2.5m Right Angle Schuko - IEC C19 Black PVC 1.5mm Power Lead
42-0552	2m Right Angle Schuko - IEC C5 Cloverleaf Black PVC 0.75mm Power Lead
42-0556	2m Euro 2 Pin Flat - IEC C7 Figure of 8 Black PVC 0.75mm Power Lead
42-0562	2.5m Right Angle Schuko - IEC C15 Hot Black H05RN-F 1.0mm Power Lead
42-0563	2m Right Angle Schuko - IEC C13 Black PVC 0.75mm Power Lead
42-0564	2m Straight Schuko - IEC C13 Black PVC 0.75mm Power Lead
42-0566	2.5m Italian Plug - IEC C13 Black PVC 1.0mm Power Lead



## PART NO DESCRIPTION

42-0571	2m Swiss Plug - IEC C13 Black PVC 1.0mm Power Lead
42-0578	2m Italian Plug - IEC C13 Black PVC 0.75mm Power Lead
42-0554	2m USA Plug (2Pin) - IEC C7 Figure of 8 Black PVC Power Lead
42-0555	2m USA Plug (3Pin) - IEC C5 Cloverleaf Black PVC Power Lead
42-2595	2m USA Plug (3Pin) - IEC C13 Black PVC Power Lead
42-2597	2m USA Plug (3 Pin) - IEC C15 Black PVC Power Lead
42-2696	2m USA Plug (3Pin) - IEC C19 Black PVC Power Lead
42-2596	2m Australian (3Pin) - IEC C13 Black PVC 0.75mm Power Lead
42-2598	2m Australian (3Pin) - IEC C5 Black PVC 0.75mm Power Lead

### IEC Extension Leads

42-2971	1m IEC C14 - IEC C19 Black PVC 1.5mm Power Lead
42-2972	2m IEC C14 - IEC C19 Black PVC 1.5mm Power Lead
42-2973	3m IEC C14 - IEC C19 Black PVC 1.5mm Power Lead
42-2978	0.75m IEC C14 - IEC C15 Hot Condition Black H05RR-F 0.75mm Power Lead
42-2979	1m IEC C14 - IEC C15 Hot Condition Black H05RR-F 0.75mm Power Lead
42-2980	2m IEC C14 - IEC C15 Hot Condition Black H05RR-F 0.75mm Power Lead
42-2981	3m IEC C14 - IEC C15 Hot Condition Black H05RN-F 1.0mm Power Lead
42-2982	5m IEC C14 - IEC C15 Hot Condition Black H05RN-F 1.0mm Power Lead
42-2985	2m IEC C14 - IEC C5 Cloverleaf Black PVC 0.75mm Power Lead
42-2986	2m IEC C14 - IEC C7 Figure of 8 Black PVC 0.75mm Power Lead
42-2990	0.5m IEC C14 - IEC C15 Hot Condition Orange H05RR-F 1.0mm Power Lead
42-2991	1m IEC C14 - IEC C15 Hot Condition Orange H05RR-F 1.0mm Power Lead
42-2992	1.5m IEC C14 - IEC C15 Hot Condition Orange H05RR-F 1.0mm Power Lead
42-2993	2m IEC C14 - IEC C15 Hot Condition Orange H05RR-F 1.0mm Power Lead

# Power Leads & PDUs



PART NO	DESCRIPTION
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## IEC Extension Leads

42-2994 3m IEC C14 - IEC C15 Hot Condition Orange H05RR-F 1.0mm Power Lead

## IEC C14 - IEC C13 PVC Leads ORANGE

42-2670 0.5m IEC C14 - IEC C13 Orange PVC 1.0mm Power Lead  
 42-2671 1m IEC C14 - IEC C13 Orange PVC 1.0mm Power Lead  
 42-2672 1.5m IEC C14 - IEC C13 Orange PVC 1.0mm Power Lead  
 42-2673 2m IEC C14 - IEC C13 Orange PVC 1.0mm Power Lead  
 42-2674 3m IEC C14 - IEC C13 Orange PVC 1.0mm Power Lead



## IEC C14 - IEC C13 PVC Leads GREEN

42-2680 0.3m IEC C14 - IEC C13 Green PVC 0.75mm Power Lead  
 42-2681 0.5m IEC C14 - IEC C13 Green PVC 0.75mm Power Lead  
 42-2682 1m IEC C14 - IEC C13 Green PVC 0.75mm Power Lead  
 42-2683 2m IEC C14 - IEC C13 Green PVC 0.75mm Power Lead  
 42-2684 3m IEC C14 - IEC C13 Green PVC 1.0mm Power Lead

## IEC C14 - IEC C13 PVC Leads GREY

42-2690 0.3m IEC C14 - IEC C13 Grey PVC 0.75mm Power Lead  
 42-2691 0.5m IEC C14 - IEC C13 Grey PVC 0.75mm Power Lead  
 42-2692 1m IEC C14 - IEC C13 Grey PVC 0.75mm Power Lead  
 42-2693 2m IEC C14 - IEC C13 Grey PVC 0.75mm Power Lead  
 42-2694 3m IEC C14 - IEC C13 Grey PVC 1.0mm Power Lead



## IEC C14 - IEC C13 PVC Leads RED

42-2699 0.3m IEC C14 - IEC C13 Red PVC 0.75mm Power Lead  
 42-2700 0.5m IEC C14 - IEC C13 Red PVC 0.75mm Power Lead  
 42-2701 1m IEC C14 - IEC C13 Red PVC 0.75mm Power Lead  
 42-2702 2m IEC C14 - IEC C13 Red PVC 0.75mm Power Lead  
 42-2703 3m IEC C14 - IEC C13 Red PVC 1.0mm Power Lead



## IEC C14 - IEC C13 PVC Leads BLUE

42-2709 0.3m IEC C14 - IEC C13 Blue PVC 0.75mm Power Lead  
 42-2710 0.5m IEC C14 - IEC C13 Blue PVC 0.75mm Power Lead  
 42-2711 1m IEC C14 - IEC C13 Blue PVC 0.75mm Power Lead  
 42-2712 2m IEC C14 - IEC C13 Blue PVC 0.75mm Power Lead  
 42-2713 3m IEC C14 - IEC C13 Blue PVC 1.0mm Power Lead

# IEC Extension Leads



PART NO	DESCRIPTION
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## IEC C14 - IEC C13 PVC Leads WHITE

42-2719 0.3m IEC C14 - IEC C13 White PVC 0.75mm Power Lead  
 42-2720 0.5m IEC C14 - IEC C13 White PVC 0.75mm Power Lead  
 42-2721 1m IEC C14 - IEC C13 White PVC 0.75mm Power Lead  
 42-2722 2m IEC C14 - IEC C13 White PVC 0.75mm Power Lead  
 42-2723 3m IEC C14 - IEC C13 White PVC 1.0mm Power Lead

## IEC C14 - IEC C13 PVC Leads BLACK

42-2958 0.3m IEC C14 - IEC C13 Black PVC 0.75mm Power Lead  
 42-2960 0.5m IEC C14 - IEC C13 Black PVC 0.75mm Power Lead  
 42-2961 1m IEC C14 - IEC C13 Black PVC 0.75mm Power Lead  
 42-2959 1.5m IEC C14 - IEC C13 Black PVC 0.75mm Power Lead  
 42-0561 2m IEC C14 - IEC C13 Black PVC 0.75mm Power Lead  
 42-2962 3m IEC C14 - IEC C13 Black PVC 1.0mm Power Lead  
 42-2963 5m IEC C14 - IEC C13 Black PVC 1.0mm Power Lead  
 42-2964 10m IEC C14 - IEC C13 Black PVC 1.0mm Power Lead



## IEC C20 - IEC C19 PVC Leads BLACK

42-0574 0.5m IEC C20 - IEC C19 Black PVC 1.5mm Power Lead  
 42-0570 1m IEC C20 - IEC C19 Black PVC 1.5mm Power Lead  
 42-0568 2.5m IEC C20 - IEC C19 Black PVC 1.5mm Power Lead  
 42-0572 5m IEC C20 - IEC C19 Black PVC 1.5mm Power Lead



## IEC C20 - IEC C19 PVC Leads RED

42-2730 0.5m IEC C20 - IEC C19 Red PVC 1.5mm Power Lead  
 42-2731 1m IEC C20 - IEC C19 Red PVC 1.5mm Power Lead  
 42-2732 2.5m IEC C20 - IEC C19 Red PVC 1.5mm Power Lead  
 42-2734 5m IEC C20 - IEC C19 Red PVC 1.5mm Power Leads

## IEC C20 - IEC C19 PVC Leads BLUE

42-2740 0.5m IEC C20 - IEC C19 Blue PVC 1.5mm Power Lead  
 42-2741 1m IEC C20 - IEC C19 Blue PVC 1.5mm Power Lead  
 42-2742 2.5m IEC C20 - IEC C19 Blue PVC 1.5mm Power Lead



## IEC C20 - IEC C19 PVC Leads WHITE

42-2750 0.5m IEC C20 - IEC C19 White PVC 1.5mm Power Lead  
 42-2751 1m IEC C20 - IEC C19 White PVC 1.5mm Power Lead  
 42-2752 2.5m IEC C20 - IEC C19 White PVC 1.5mm Power Lead



## IEC Extension Leads | LSOH Power Leads | Commando Power Leads | Locking Power Leads

## Power Leads &amp; PDUs



PART NO	DESCRIPTION
<b>IEC C20 - IEC C13 PVC Leads BLACK</b>	
42-0592	2m IEC C20 - IEC C13 Black PVC 1.5mm Power Lead
42-0594	5m IEC C20 - IEC C13 Black PVC 1.5mm Power Lead
<b>UK (13 Amp) - IEC C19 PVC Leads BLACK</b>	
42-0565	2.5m UK (13Amp) - IEC C19 Black PVC 1.5mm Power Lead
42-0577	5m UK (13Amp) - IEC C19 Black PVC 1.5mm Power Lead
<b>IEC C14 - 2 x IEC C13 PVC Leads BLACK</b>	
42-3540	1m IEC C14 - 2 x IEC C13 0.5m Legs Black PVC Power Lead
42-0567	2.5m IEC C14 - 2 x IEC C13 0.5m Legs Black PVC Power Lead
42-3546	2.5m IEC C14 - 2 x IEC C13 1.5m Legs Black PVC Power Lead
<b>Hot C21 - C20 16 Amp PVC Leads BLACK</b>	
42-0521	1.8m Hot C20 - C21 (20Amp) 1.5mm Black Power Lead
42-0523	3m Hot C20 - C21 (20Amp) 1.5mm Black Power Lead

## LSOH Power Leads

42-0558-LS	1m UK (5Amp) - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-0559-LS	2m UK (5Amp) - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-2887-LS	3m UK (5Amp) - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-2888-LS	5m UK (5Amp) - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-2960-LS	0.5m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 0.75mm Power Lead
42-2961-LS	1m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 0.75mm Power Lead
42-2959-LS	1.5m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 0.75mm Power Lead
42-0561-LS	2m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 0.75mm Power Lead
42-2962-LS	3m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-2963-LS	5m IEC C14 - IEC C13 H05Z1Z1-F Black LSOH 1.0mm Power Lead
42-0570-LS	1m IEC C20 - IEC C19 H05Z1Z1-F Black LSOH 1.5mm Power Lead
42-0568-LS	2.5m IEC C20 - IEC C19 H05Z1Z1-F Black LSOH 1.5mm Power Lead
42-0572-LS	5m IEC C20 - IEC C19 H05Z1Z1-F Black LSOH 1.5mm Power Lead



PART NO	DESCRIPTION
<b>Commando Power Leads</b>	
42-4047	2m (16Amp) Commando - IEC-C19 Black PVC 1.5mm Power Lead
42-4049	3m (16Amp) Commando - IEC-C19 Black PVC 1.5mm Power Lead
42-4050	5m (16Amp) Commando - IEC-C19 Black PVC 1.5mm Power Lead

## Locking Power Leads

<b>IEC C14 - IEC C13 Lock PVC Leads BLACK</b>	
42-3010	1m IEC C14 - IEC C13 IEC Lock Black PVC 1.0mm Power Lead
42-3011	2m IEC C14 - IEC C13 IEC Lock Black PVC 1.0mm Power Lead
42-3012	3m IEC C14 - IEC C13 IEC Lock Black PVC 1.0mm Power Lead
<b>IEC C14 - IEC C13 Lock PVC Leads ORANGE</b>	
42-3018	0.5m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
42-3019	1m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
42-3020	2m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
42-3021	3m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
42-3022	4m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
42-3023	5m IEC C14 - IEC C13 IEC Lock Orange PVC 1.0mm Power Lead
<b>IEC C14 - IEC C13 Lock PVC Leads BLUE</b>	
42-3030	0.5m IEC C14 - IEC C13 IEC Lock Blue PVC 1.0mm Power Lead
42-3031	1m IEC C14 - IEC C13 IEC Lock Blue PVC 1.0mm Power Lead
42-3032	2m IEC C14 - IEC C13 IEC Lock Blue PVC 1.0mm Power Lead
42-3033	3m IEC C14 - IEC C13 IEC Lock Blue PVC 1.0mm Power Lead
<b>IEC C14 - IEC C13 Lock PVC Leads WHITE</b>	
42-3037	1m IEC C14 - IEC C13 IEC Lock White PVC 1.0mm Power Lead
42-3038	2m IEC C14 - IEC C13 IEC Lock White PVC 1.0mm Power Lead
42-3039	3m IEC C14 - IEC C13 IEC Lock White PVC 1.0mm Power Lead
<b>IEC C14 - IEC C13 Lock PVC Leads RED</b>	
42-3041	0.5m IEC C14 - IEC C13 IEC Lock Red PVC 1.0mm Power Lead
42-3042	1m IEC C14 - IEC C13 IEC Lock Red PVC 1.0mm Power Lead
42-3043	2m IEC C14 - IEC C13 IEC Lock Red PVC 1.0mm Power Lead
42-3044	3m IEC C14 - IEC C13 IEC Lock Red PVC 1.0mm Power Lead

Minimum pack quantities may apply. Please contact the sales team for more details.

# Power Leads & PDUs

## Locking Power Leads | Dual Locking Power Leads



PART NO	DESCRIPTION
<b>IEC C14 - IEC C13 Lock + PVC Leads BLACK</b>	
42-3120	0.5m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Lead
42-3121	1m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Lead
42-3122	1.5m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Lead
42-3123	2m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Lead
42-3124	3m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Lead
42-3125	5m IEC C14 - IEC C13 IEC Lock + Black PVC 1.0mm Power Leads



<b>IEC C14 - IEC C13 Lock + PVC Leads ORANGE</b>	
42-3130	0.5m IEC C14 - IEC C13 IEC Lock + Orange PVC 1.0mm Power Lead
42-3131	1m IEC C14 - IEC C13 IEC Lock + Orange PVC 1.0mm Power Lead
42-3132	1.5m IEC C14 - IEC C13 IEC Lock + Orange PVC 1.0mm Power Lead
42-3133	2m IEC C14 - IEC C13 IEC Lock + Orange PVC 1.0mm Power Lead

<b>UK - IEC C13   Right Angle Schuko   USA Plug - IEC C13 Lock PVC Leads BLACK</b>	
42-3004	2m Right Angle Schuko - IEC C13 IEC Lock Black PVC 1.0mm Power Lead

<b>UK - IEC C13 Lock PVC Leads BLACK</b>	
42-3001	2m UK - IEC C13 IEC Lock Black PVC 1.0mm Power Leads



<b>IEC C20 - IEC C19 Lock PVC Leads BLACK</b>	
42-3051	1m IEC C20 - IEC C19 IEC Lock Black PVC 1.5mm Power Lead
42-3052	2m IEC C20 - IEC C19 IEC Lock Black PVC 1.5mm Power Lead
42-3053	3m IEC C20 - IEC C19 IEC Lock Black PVC 1.5mm Power Lead

<b>IEC C20 - IEC C19 Lock PVC Leads BLUE</b>	
42-3071	1m IEC C20 - IEC C19 IEC Lock Blue PVC 1.5mm Power Lead
42-3072	2m IEC C20 - IEC C19 IEC Lock Blue PVC 1.5mm Power Lead
42-3073	3m IEC C20 - IEC C19 IEC Lock Blue PVC 1.5mm Power Lead

<b>IEC C20 - IEC C19 Lock PVC Leads ORANGE</b>	
42-3081	1m IEC C20 - IEC C19 IEC Lock Orange PVC 1.5mm Power Lead
42-3083	3m IEC C20 - IEC C19 IEC Lock Orange PVC 1.5mm Power Lead

<b>IEC C20 - IEC C19 Lock PVC Leads WHITE</b>	
42-3091	1m IEC C20 - IEC C19 IEC Lock White PVC 1.5mm Power Lead
42-3092	2m IEC C20 - IEC C19 IEC Lock White PVC 1.5mm Power Lead

Minimum pack quantities may apply. Please contact the sales team for more details.



PART NO	DESCRIPTION
<b>IEC C20 - IEC C19 Lock PVC Leads RED</b>	
42-3101	1m IEC C20 - IEC C19 IEC Lock Red PVC 1.5mm Power Lead
42-3102	2m IEC C20 - IEC C19 IEC Lock Red PVC 1.5mm Power Lead
42-3103	3m IEC C20 - IEC C19 IEC Lock Red PVC 1.5mm Power Lead
<b>UK (13 Amp) - IEC C19 Lock PVC Leads BLACK</b>	
42-3060	2m UK (13Amp) - IEC C19 IEC Lock Black PVC 1.5mm Power Lead

### Dual Locking Power Leads



<b>IEC C14 - IEC C13 IEC Dual Lock PVC Leads BLACK</b>	
42-5005	0.5m IEC C14 - IEC C13 IEC Dual Lock Black PVC 1.0mm Power Leads
42-5010	1m IEC C14 - IEC C13 IEC Dual Lock Black PVC 1.0mm Power Leads
42-5020	2m IEC C14 - IEC C13 IEC Dual Lock Black PVC 1.0mm Power Leads
42-5030	3m IEC C14 - IEC C13 IEC Dual Lock Black PVC 1.0mm Power Leads



<b>IEC C14 - IEC C13 IEC Dual Lock PVC Leads BLUE</b>	
42-5105	0.5m IEC C14 - IEC C13 IEC Dual Lock Blue PVC 1.0mm Power Leads
42-5110	1m IEC C14 - IEC C13 IEC Dual Lock Blue PVC 1.0mm Power Leads
42-5115	2m IEC C14 - IEC C13 IEC Dual Lock Blue PVC 1.0mm Power Leads
42-5120	3m IEC C14 - IEC C13 IEC Dual Lock Blue PVC 1.0mm Power Leads



<b>IEC C14 - IEC C13 IEC Dual Lock PVC Leads RED</b>	
42-5205	0.5m IEC C14 - IEC C13 IEC Dual Lock Red PVC 1.0mm Power Leads
42-5210	1m IEC C14 - IEC C13 IEC Dual Lock Red PVC 1.0mm Power Leads
42-5215	2m IEC C14 - IEC C13 IEC Dual Lock Red PVC 1.0mm Power Leads
42-5220	3m IEC C14 - IEC C13 IEC Dual Lock Red PVC 1.0mm Power Leads

<b>IEC C19 - IEC C20 IEC Dual Lock PVC Leads BLACK</b>	
42-5505	0.5m IEC C19 - IEC C20 IEC Dual Lock Black PVC 2.5mm Power Leads
42-5510	1m IEC C19 - IEC C20 IEC Dual Lock Black PVC 2.5mm Power Leads
42-5520	2m IEC C19 - IEC C20 IEC Dual Lock Black PVC 2.5mm Power Leads
42-5630	3m IEC C19 - IEC C20 IEC Dual Lock Black PVC 2.5mm Power Leads

Minimum pack quantities may apply. Please contact the sales team for more details.

# UK Trailing Sockets | Power Connectors | Power Cable | Power Adaptors | PDUs - UK Horizontal Power Leads & PDUs

## PART NO DESCRIPTION

### UK Trailing Sockets

42-0526	25cm UK Socket (BS1363) - IEC C14 1.0mm
42-0569	4 Way UK White (13Amp) Surge Protected Power Strip with 2m Lead
42-0573	6 Way UK White (13Amp) Surge Protected Power Strip with 2m Lead
42-0575	4 Way UK White (13Amp) Surge Protected Power Strip with 5m Lead
42-0576	6 Way UK White (13Amp) Surge Protected Power Strip with 5m Lead
PB-4W2MB	4 Way UK Black (13Amp) Surge Protected Power Strip with 2m Lead
PB-4W5MB	4 Way UK Black (13Amp) Surge Protected Power Strip with 5m Lead
PB-4W10MB	4 Way UK Black (13Amp) Surge Protected Power Strip with 10m Lead
PB-6W2MB	6 Way UK Black (13Amp) Surge Protected Power Strip with 2m Lead
PB-6W5MB	6 Way UK Black (13Amp) Surge Protected Power Strip with 5m Lead
PB-6W10MB	6 Way UK Black (13Amp) Surge Protected Power Strip with 10m Lead
PB4-651B	4 Way UK Black (13Amp) Trailing Socket Rewireable
PB4-C14	4 Way Black 1m Power Extension - C14

### Power Connectors

PLUGS801W	UK Mains Plug (13Amp) White (BS1363)
PLUGS802B	UK Mains Plug (13Amp) Black (BS1363)
42-0490	UK Mains Socket (13Amp) Rewireable Black (BS1363)
42-0492	C13 (10Amp) IEC Lock + Power LSOH Connector (Screw)
42-0498	C13 Right Angle (10Amp) Power Connector (Screw)
42-0499	C14 Right Angle (10Amp) Power Connector (Screw)
42-0500	C15 Left Angle (10Amp) Hot Condition Power Connector (Screw)
42-0502	C19 (16Amp) Power Connector (Screw)
42-0503	C20 (16Amp) Power Connector (Screw)
42-0505	C15 (10Amp) Hot Condition Power Connector (Screw)
42-0506	C21 (16Amp) Hot Condition Power Connector (Screw)
42-0507	C20 Right Angle (16Amp) Power Connector (Screw)
42-0508	C19 Right Angle (16Amp) Power Connector (Screw)
IECPLUG275HQ	C14 (10Amp) Power Connector (Screw)
IECSOCKET245HQ	C13 (10Amp) Power Connector (Screw)
42-0511	Commando Plug (32Amp) (2P+E) Blue 240v
42-0512	Commando Socket (16Amp) Single Phase (2P+E) Blue 240v
PW-2950	IEC Male C14 - Figure of 8 C7 Power Adaptor
PW-2951	IEC Male C14 - Cloverleaf C5 Power Adaptor

## PART NO DESCRIPTION

### Power Cable

CAB3M1.5BLS	100m Mains 3 Core 1.5mm 3183B Black LSOH Cable
CAB3M1BLS	100m Mains 3 Core 1mm 3183B Black LSOH Cable

### Power Adaptors

#### UK Charger Plug

42-0413	UK Mains Charger Plug - USB Adaptor White
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#### Power Adaptor

42-0410	UK 3 Pin Socket to Euro 2 Pin Travel Adaptor White
42-0414	UK Mains Charger Plug - USB Adaptor Black

### PDUs - UK Horizontal

#### UK Horizontal

##### 4 Way

PDU4H	4 Way UK Horizontal 1.5u PDU with UK 3m Feed
PDU4HC14	4 Way UK Horizontal 1.5u PDU with IEC - C14 3m Feed
PDU4HC20	4 Way UK Horizontal 1.5u PDU with IEC - C20 3m Feed
PDU4H16A	4 Way UK Horizontal 1.5u PDU with (16Amp) Commando 3m Feed

##### 6 Way

PDU6H	6 Way UK Horizontal 1u PDU with UK 3m Feed
PDU6HF	6 Way UK Horizontal 1u PDU Filtered with UK 3m Feed
PDU6HFLW	6 Way UK Horizontal 1U PDU with UK 3m Feed
PDU6HC14	6 Way UK Horizontal 1u PDU with IEC - C14 3m Feed
PDU6HC20	6 Way UK Horizontal 1u PDU with IEC - C20 3m Feed
PDU6H16A	6 Way UK Horizontal 1u PDU with (16Amp) Commando 3m Feed
PDU6H32A	6 Way UK Horizontal 1.5u PDU with (32Amp) Commando 3m Feed

# Power Leads & PDUs

## PDUs - UK Vertical | PDUs - IEC C13 Horizontal



PART NO	DESCRIPTION
<u>8 Way</u> PDU8H	8 Way UK Horizontal 1u PDU with UK 3m Feed
PDU8HC14	8 Way UK Horizontal 1u PDU with IEC - C14 3m Feed
PDU8HC20	8 Way UK Horizontal 1u PDU with IEC - C20 3m Feed
PDU8H16A	8 Way UK Horizontal 1u PDU with (16Amp) Commando 3m Feed



PART NO	DESCRIPTION
<u>12 Way</u> PDU12V	12 Way UK Vertical PDU with UK 3m Feed
PDU12VF	12 Way UK Vertical PDU with UK 3m Feed
PDU12VC14	12 Way UK Vertical PDU with IEC - C14 3m Feed
PDU12VC20	12 Way UK Vertical PDU with IEC - C20 3m Feed
PDU12V16A	12 Way UK Vertical PDU with (16Amp) Commando 3m Feed
PDU12V32A	12 Way UK Vertical 1.5U PDU with 32 Amp Commando 3m Feed
<u>16 Way</u> PDU16VC14	16 Way UK Vertical PDU with IEC - C14 3m Feed
PDU16VC20	16 Way UK Vertical PDU with IEC - C20 3m Feed
PDU16V16A	16 Way UK Vertical PDU with (16Amp) Commando 3m Feed



### PDUs - UK Vertical

#### UK Vertical

<u>4 Way</u> PDU4V	4 Way UK Vertical PDU with UK 3m Feed
PDU4VC14	4 Way UK Vertical PDU with IEC - C14 3m Feed
PDU4VC20	4 Way UK Vertical PDU with IEC - C20 3m Feed

#### 5 Way

PDU5V	5 Way UK Vertical PDU with UK 3m Feed
-------	---------------------------------------

#### 6 Way

PDU6V	6 Way UK Vertical PDU with UK 3m Feed
PDU6VC14	6 Way UK Vertical PDU with IEC - C14 3m Feed
PDU6VC20	6 Way UK Vertical PDU with IEC - C20 3m Feed

#### 8 Way

PDU8V	8 Way UK Vertical PDU with UK 3m Feed
PDU8VF	8 Way UK Vertical PDU with UK 3m Feed
PDU8VC14	8 Way UK Vertical PDU with IEC - C14 3m Feed
PDU8VC20	8 Way UK Vertical PDU with IEC - C20 3m Feed
PDU8V16A	8 Way UK Vertical PDU with (16Amp) Commando 3m Feed

#### 10 Way

PDU10V	10 Way UK Vertical PDU with UK 3m Feed
PDU10VC14	10 Way UK Vertical PDU with IEC - C14 3m Feed
PDU10VC20	10 Way UK Vertical PDU with IEC - C20 3m Feed
PDU10V16A	10 Way UK Vertical PDU with (16Amp) Commando 3m Feed



### PDUs - IEC C13 Horizontal

#### IEC C13 Horizontal

#### 6 Way

IEC6H	6 Way IEC - C13 Horizontal 1u PDU with UK 3m Feed
IEC6HC14	6 Way IEC - C13 Horizontal 1u PDU with IEC - C14 3m Feed
IEC6HC20	6 Way IEC - C13 Horizontal 1.5u PDU with IEC - C20 3m Feed

#### 8 Way

IEC8H	8 Way IEC - C13 Horizontal 1u PDU with UK 3m Feed
IEC8HC14	8 Way IEC - C13 Horizontal 1u PDU with IEC - C14 3m Feed
IEC8HC20	8 Way IEC - C13 Horizontal 1u PDU with IEC - C20 3m Feed

#### 10 Way

IEC10H	10 Way IEC - C13 Horizontal 1u PDU with UK 3m Feed
IEC10HC14	10 Way IEC - C13 Horizontal 1u PDU with IEC - C14 3m Feed
IEC10HC20	10 Way IEC - C13 Horizontal 1u PDU with IEC - C20 3m Feed
IEC10H16A	10 Way IEC - C13 Horizontal 1.5u PDU with (16Amp) Commando 3m Feed

#### 12 Way

IEC12H	12 Way IEC - C13 Horizontal 1u PDU with UK 3m Feed
IEC12HC14	12 Way IEC - C13 Horizontal 1u PDU with IEC - C14 3m Feed





## PDUs - IEC C13 Horizontal | PDUs - IEC C13 Vertical | POD Desktop Power

## Power Leads & PDUs



PART NO	DESCRIPTION
IEC12HC20	12 Way IEC - C13 Horizontal 1u PDU with IEC - C20 3m Feed
IEC12H16A	12 Way IEC - C13 Horizontal 1u PDU with (16Amp) Commando 3m Feed
<u>16 Way</u>	
IEC16H	16 Way IEC - C13 Horizontal 1.5u PDU with UK 3m Feed



### PDUs - IEC C13 Vertical

#### IEC C13 Vertical

##### 8 Way

IEC8V	8 Way IEC - C13 Vertical PDU with UK 3m Feed
IEC8VC14	8 Way IEC - C13 Vertical PDU with IEC - C14 3m Feed
IEC8VC20	8 Way IEC - C13 Vertical PDU with IEC - C20 3m Feed

##### 10 Way

IEC10V	10 Way IEC - C13 Vertical PDU with UK 3m Feed
IEC10VC14	10 Way IEC - C13 Vertical PDU with IEC - C14 3m Feed
IEC10V16A	10 Way IEC - C13 Vertical PDU with (16Amp) Commando 3m Feed

##### 12 Way

IEC12V	12 Way IEC - C13 Vertical PDU with UK 3m Feed
IEC12VC14	12 Way IEC - C13 Vertical PDU with IEC - C14 3m Feed
IEC12V16A	12 Way IEC - C13 Vertical PDU with (16Amp) Commando 3m Feed

##### 16 Way

IEC16V	16 Way IEC - C13 Vertical PDU with UK 3m Feed
IEC16VC20	16 Way IEC - C13 Vertical PDU with IEC - C20 3m Feed
IEC16V16A	16 Way IEC - C13 Vertical PDU with (16Amp) Commando 3m Feed

##### 20 Way

IEC20V16A	20 Way IEC - C13 Vertical PDU with (16Amp) Commando 3m Feed
IEC20VC20	20 Way IEC - C13 Vertical PDU with IEC-C20 3m Feed



PART NO	DESCRIPTION
<b>POD Desktop Power</b>	
PDP-PACK-4-1	4 x Individually Fused UK Sockets (West/North/North/East) Master PDU
PDP-PACK-4-4	4 x (5Amp) Individually Fused and Switched UK Sockets (North) PDU
PDP-PACK-DESK-6S	6 x (5Amp) Individually Fused Power Master Switch PDU
PDP-PACK-4	4 x (5Amp) Individually Fused UK Sockets (West, North, North, East) PDU
PDP-PACK-6	6 x (3.15Amp) Individually Fused UK Sockets (West, North, North, North, North, East) PDU
PDP-PACK-DESK-2S	2 x (5Amp) Individually Fused Power Master Switch PDU
PDP-PACK-DESK-2S-U	2 x (5Amp) Individually Fused Power Master Switch and 2 x USB PDU
PDP-PACK-DESK-4S	4 x (5Amp) Individually Fused Power Master Switch PDU
PDP-PACK-DESK-4S-U	4 x (5Amp) Individually Fused Power Master Switch and 2 x USB PDU
PDINTER-1G	1m GST18 Male - Female Wieland Black PVC Power Lead
PDINTER-2G	2m GST18 Male - Female Wieland Black PVC Power Lead
PDINTER-3G	3m GST18 Male - Female Wieland Black PVC Power Lead
PDSTART-1G	1m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-2G	2m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-3G	3m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-4G	4m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-5G	5m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-6G	6m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead
PDSTART-10G	10m GST18 Female - UK (13Amp) Plug Wieland Black PVC Power Lead



Visit our website for the full range of products:  
[www.cablenet.co.uk](http://www.cablenet.co.uk)

# Power Leads & PDUs

## ALL OUR POWER LEADS ARE MANUFACTURED IN OUR CATEGORY A POWER LEAD FACTORY

Being 1 out of only 8 factories worldwide who supply leading named blue chip, high end power products to market leading IT customers.

Conducting around 250 audits a year enables our quality standards to be at the very highest level across our power range. Being connected to all of the significant safety agencies mean that all our products meet industry set regulations and are always 100% compliant.

This all equates to Cablenet supplying our customers with the highest quality power leads that the market has to offer.



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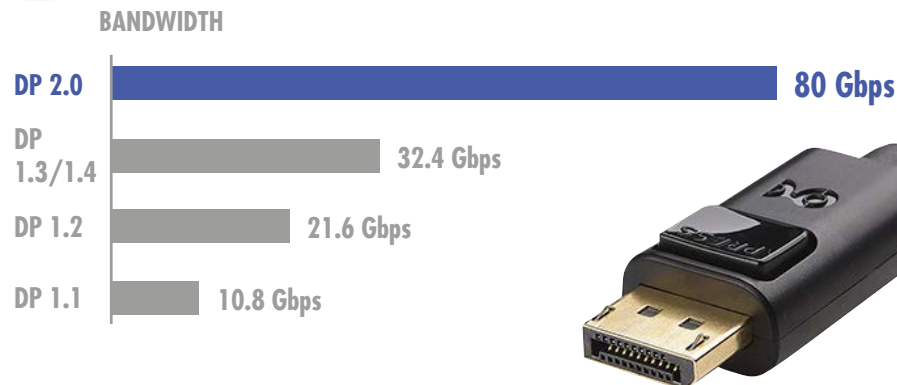
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# COMPUTER CABLES TECH TERMS

## What is DisplayPort?



The DisplayPort connector and cable is most commonly found in its full-size form, where it has 20 pins fitted into an L shape connector. That helps it stand out from more uniform ports like HDMI, USB-A, and USB-C. Also commonplace is its smaller variant, known as Mini DisplayPort, which originally debuted on Apple devices in 2008, before becoming a more commonplace addition to standalone monitors.

When it was introduced in 2010, DisplayPort 1.2 heralded in a new era of high-end data transmission, but it also improved the standard's resolution and refresh rate support, opening up the option of 5K resolution at up to 30Hz, 4K at up to 75Hz, and 1080p at up to 240Hz.

DisplayPort 1.4, however, takes things a much greater step further. It supports 1440p resolution at up to 240Hz, and even 4K at up to 120Hz. It also supports 5K resolution at up to 60Hz, and even 8K resolution at 30Hz. It also supports DSC 1.2. and with DSC enabled it can handle 4K at 60Hz with 30bit/px colour and HDR, and even 8K at up to 60Hz.

DisplayPort 1.4 cables are entirely backward compatible with older DisplayPort devices too, whether you're using a full size or Mini DisplayPort connection.

The DisplayPort 2.0 standard was only announced by its governing body, VESA, in mid-2019, but when supporting monitors, laptops, and graphics cards start to appear, they will offer higher refresh rates and resolutions than anything else out there. It will add support for two 4K monitors running at up to 144Hz at the same time, or a single 16K display with HDR enabled (with DSC compression) and in the near future, it will be DisplayPort 2.0 vs HDMI 2.1.

## DisplayPort is Different from HDMI?

DisplayPort and HDMI are very different technically, and each began with a different product focus. For over ten years, HDMI has been the de-facto connection for home entertainment systems and is used widely on HDTVs as an AV interface. Some PCs and monitors include HDMI to enable connectivity with HDTVs and other consumer electronics gear. DisplayPort, a newer standard originally developed to support the higher performance requirements of personal computers, is based on updated signal and protocol technology similar to that already used in today's computer systems, enabling an increase in performance and integration. Because DisplayPort uses common signaling technology in use for data communications and a packetized data structure, through a common connector, it can be combined with standards such as USB and Thunderbolt. With link training/link quality monitoring as in data communications, DisplayPort provides a more robust and stable AV link.

## DisplayPort 2.0 Performance to USB4™ and New USB Type-C® Devices

DisplayPort Alt Mode version 2.0 enables all of the latest capabilities of DisplayPort through the USB Type-C connector, including beyond-8K resolution and higher refresh rates, along with USB data delivery.

DisplayPort Alt Mode 2.0 provides seamless interoperability with the new USB4™ specification published by the USB Implementers Forum (USB-IF), and fully enables all of the features in the latest version of the DisplayPort standard (version 2.0) through the USB Type-C® (USB-C) connector. With DisplayPort Alt Mode, the USB-C connector can transmit up to 80 Gigabits per second (Gbps) of DisplayPort video data utilizing all four high-speed lanes in the cable, or up to 40 Gbps with simultaneous SuperSpeed USB data delivery. VESA anticipates first products incorporating DisplayPort Alt Mode 2.0 to appear on the market in 2021.

## DisplayPort and Thunderbolt

Thunderbolt takes advantage of DisplayPort technology, and Thunderbolt Hosts (such as notebooks and personal computers) are backward-compatible with DisplayPort cables and DisplayPort monitors. This means you can plug a DisplayPort monitor into a Thunderbolt computer output, using a standard DisplayPort cable. The adoption of DisplayPort technology by Thunderbolt has helped to accelerate the adoption of DisplayPort in high-end computing and video post-production.

## DVI Monitor Port

Newer computer use DVI instead of VGA. The new breed of "thin" laptops use the smaller variants of DVI like the Mini-DVI and Micro-DVI.

A DVI cable has 29 pins, though some connectors may have less pins depending on their configuration.

DVI's video signal is compatible with HDMI, so a simple converter can allow a DVI monitor to receive input from an HDMI cable.

Additionally, DVI to VGA converters are also available to connect your new graphics card to an old monitor that supports only VGA mode.

DVI-D cables are used for direct digital connections between source video and LCD monitors.

DVI-I cables are integrated cables which are capable of transmitting either a digital-to-digital signal or an analogue-to-analogue signal. This makes it a more versatile cable, being usable in either digital or analogue situations.







## HDMI Cables

### The HDMI Advantage

HDMI technology is the global standard for connecting high-definition equipment. HDMI is the intelligent, all-digital interface used by most of the world's largest consumer electronics, PC and mobile device manufacturers incorporate HDMI connectivity into their products. HDMI is backwards compatible with DVI so you can use a converter to watch video on a DVI device.

There are several HDMI cable types plus a special cable certification designation to choose from; each designed to meet a particular performance standard. Here is an overview of the HDMI cable types, their capabilities, and how to tell them apart.



### Active Optical HDMI Cables (AOC)

For longer length installations you will want to use a cable that supports 1.4 and 2.1 speeds, some are available with detachable heads for ways of installation through walls.

## Finding the Right Cable...

HDMI®  
**ULTRA  
HIGH SPEED**

### The Ultra High Speed HDMI 2.1 Cable

This latest HDMI cable is the only cable that complies with stringent specifications designed to ensure support for all HDMI 2.1 features including uncompressed 8k@60 and 4K@120. The cable's bandwidth supports up to 48Gbps, it is backwards compatible with existing HDMI devices, and features exceptionally low EMI which reduces interference with nearby wireless devices. For verification and authentication the cable packaging is required to display the Ultra High Speed HDMI Certification Label which includes the Cable Name Logo printed on it.

HDMI®  
**HIGH SPEED  
with ETHERNET**



**Premium High Speed HDMI 1.4a Cable and Premium High Speed HDMI 1.4a Cable with Ethernet** are special certification designations for High Speed HDMI Cables that have been designed and certified for ultra-reliable performance for 4K/UltraHD including advanced features such as 4K60, HDR, expanded color spaces including BT.2020, and 4:4:4 chroma sampling. They have low EMI and are identified by HDMI Licensing Administrator's Premium HDMI Cable Certification Label for authentication verification.

*"Trust the cable with the label" - Only Premium HDMI Cables are allowed to display and promote the official Premium HDMI Cable Authentication Label.*

HDMI®  
**HIGH SPEED  
with ETHERNET**

### High Speed HDMI 1.4a Cable with Ethernet

This cable type offers the same baseline performance as the High Speed HDMI Cable shown above (1080p video resolution and beyond), plus an additional, dedicated data channel, known as the HDMI Ethernet Channel, for device networking. HDMI Ethernet Channel functionality is only available if both linked devices are HDMI Ethernet Channel-enabled.

HDMI®  
**HIGH SPEED**

### High Speed HDMI 1.4a Cable

The High Speed HDMI cable is designed and tested to handle video resolutions of 1080p and beyond, including advanced display technologies such as 4K, 3D, and Deep Color. If you are using any of these technologies, or if you are connecting your 1080p display to a 1080p content source, such as a Blu-ray Disc player, this is the recommended cable.

HDMI®  
**STANDARD  
with ETHERNET**

### Standard HDMI Cable with Ethernet

This cable type offers the same baseline performance as the Standard HDMI Cable shown above (720p or 1080i video resolution), plus an additional, dedicated data channel, known as the HDMI Ethernet Channel, for device networking. HDMI Ethernet Channel functionality is only available if both linked devices are HDMI Ethernet Channel-enabled.

HDMI®  
**STANDARD**

### Standard HDMI Cable

The Standard HDMI cable is designed to handle most home applications, and is tested to reliably transmit 1080i or 720p video – the HD resolutions that are commonly associated with cable and satellite television, digital broadcast HD, and upscaling DVD players.



# COMPUTER CABLES

## TECH TERMS

### Thunderbolt 3

Thunderbolt is developed by Intel and Thunderbolt 3 is an incredibly powerful technology and makes connecting devices that little bit easier. supports a much wider range of data transfer. It supports data up to 40Gbps and also supports high-resolution displays and allows you to daisy-chain devices so that you only have to connect those devices to one port on your computer.

Thunderbolt 3 is essentially a hardware interface that is designed to combine a number of different transfer protocols into a single physical connector.

Thunderbolt 3 combines a number of different standards, including PCI Express 3.0, DisplayPort 1.2 and Thunderbolt at 20Gbps and 40Gbps, all in one cable.

That physical connector happens to be the USB-C connector. There are some major differences between Thunderbolt 3 and USB-C. While Thunderbolt 3 is an actual data transfer protocol, USB-C is simply the type of connector that it uses. When you talk about USB-C ports, it could use a number of different protocols, including Thunderbolt 3 or USB 3.1. Put simply, Thunderbolt 3 is backwards compatible with USB-C devices, but a USB-C computer will not work with a Thunderbolt 3 device.

Thunderbolt 3's massive bandwidth, you can drive up to two 4K displays with a 60Hz refresh rate and a single Thunderbolt 3 port can transfer speeds at up to 40Gbps. To put that in perspective, an entire 4K movie can be transferred in about 30 seconds at those speeds.

Thunderbolt 3 also supports the DisplayPort 1.2 protocol, and you can connect Thunderbolt 3 ports to external displays. While it uses the DisplayPort protocol, it can easily be converted into other video ports such as HDMI, DVI, or VGA through a simple adapter. On displays that support daisy-chaining, you can even connect up to two 4K displays with a refresh rate of 60Hz through a single Thunderbolt 3 cable.

Thunderbolt 3 can transfer power too, just like USB.



### Thunderbolt 4

Thunderbolt 4 is more of a consolidation and evolution but real-world performance as Intel has mandated the minimum data rate and features that OEMs need to implement. Manufacturers using Thunderbolt 4 must hit higher performance minimums, guaranteeing that all supported devices support twin 4K displays or a single 8K display. Thunderbolt 4 enhancements will make it possible to wake all hub-connected devices on touch,

Thunderbolt 4 is designed to be fully compliant with the upcoming USB4 protocol. That means that Thunderbolt 4 devices will work seamlessly with USB4 computers.

Thunderbolt 4 ports will show the small lightning bolt logo, which will help differentiate it from USB4 Type-C ports, and older USB 3.2 Type-C ports. Thunderbolt 4 cables, however, will have that same logo, but will also have a small number 4 written underneath it.



### USB-C vs Thunderbolt 3

USB-C (formally known as USB Type-C) and Thunderbolt 3 describe different things. USB-C is, by itself, just a form-factor for a connection. USB-C is an evolution of the design of older boxy USB connectors (known as Type-A). USB-C is a reversible connector, which means no more fiddling when plugging it in. It also has more pins than USB-A, allowing for increased power delivery, data transfer speeds, and video bandwidth to travel across the cable.

The term "USB-C" is used in the product description, it should be seen as shorthand for "a USB port that uses the Type-C form factor."

Thunderbolt 3, by contrast, refers to specifications detailing transfer speeds, data bandwidth, and more. The take-home message is to remember that TB3 uses a USB-C connector but offers additional features over the USB protocol.

When discussing USB-C vs. Thunderbolt 3, it is important to note that both connections share quite a bit in common. Both use the Type-C form factor for the connection. Both USB-C and TB3 can be used to power devices, transfer data at high speeds, and connect a variety of peripherals including displays. Both can be used to connect a computer to a compatible docking station, which you may want to use.

There are noticeable differences between the two standards. The key differences between USB-C and TB3 can be boiled down to three main points: data transfer rates, display connections, and connecting external devices.

**1. Data transfer:** Thunderbolt 3 is significantly faster than USB-C. USB-C supports transfer speeds ranging from 480 Mbps (USB 2.0) to 20 Gbps (USB 3.2 Gen 2x2); 10 Gbps is the most common speed. Thunderbolt 3 supports transfer rates up to 40 Gbps.

**2. Display connections:** One of the big draws of Thunderbolt 3 is its versatility. In addition to offering blazingly fast transfer speeds, Thunderbolt 3 has the bandwidth to drive up to two 4K monitors at 60 Hz. USB-C can also support external displays with the optional "DisplayPort Alternate Mode" feature. Without this feature, displays will not work when connected via USB-C. Verify that your computer supports this feature if you intend to use an external display over USB-C.

**3. Device support:** Both be used to connect a variety of peripherals such as printers and hard drives. Thunderbolt 3 supports PCIe devices like external GPUs and fast external hard drives. USB-C cannot connect to these kinds of devices.

**4. Daisy-chaining:** Thunderbolt 3 supports daisy-chaining. Up to 6 compatible devices can be connected in a chain using their own ports instead of connecting to the host device. With USB-C, these devices would all need to connect to individual host USB-C ports.

**5. Backward compatibility:** Thunderbolt 3 B3 is compatible with USB-C. If a USB-C device is plugged into a Thunderbolt port, the port reverts to USB-C mode to support the device. Compatibility is not reciprocal, however. A USB-C only port will not work with a Thunderbolt 3 device.

USB-C will meet the needs of most people. However, there are specific use cases where Thunderbolt 3 is advantageous (or even necessary). Faster data transfer speeds (40 Gbps vs. 10-20 Gbps), support for two high-resolution displays, and the ability to connect devices like external GPUs are only available via Thunderbolt 3.

Keep in mind that Thunderbolt 3 is a proprietary connection, the copyright of which is owned by Intel. As such, Thunderbolt 3 often comes at a price over USB-C. If work does not demand data-hungry peripherals, USB-C is a flexible and cost-effective option for most users.

### USB4 vs Thunderbolt 4

USB 4 and Thunderbolt 4 are functionally almost identical support.

Thunderbolt 4 and USB4 cables will be entirely interchangeable, and will be backward compatible. Thunderbolt 3 cables will also work with Thunderbolt 4 and USB4 connections. Older USB-C 3.2 connections will work with USB4 connections, but won't be able to offer the fastest 40 Gbps transfer speeds.

USB4 and Thunderbolt 4 both support power delivery up to 100W, making it possible to charge almost any supporting device using the connection. More importantly, though, where older USB-C 3.2 devices did not have to support the higher wattage options of USB Power Delivery, USB4 certified devices must to qualify. That means that any USB4 or Thunderbolt 4 port will be able to charge any USB4 compatible device at full power delivery for the fastest charging.



## A Brief History of USB

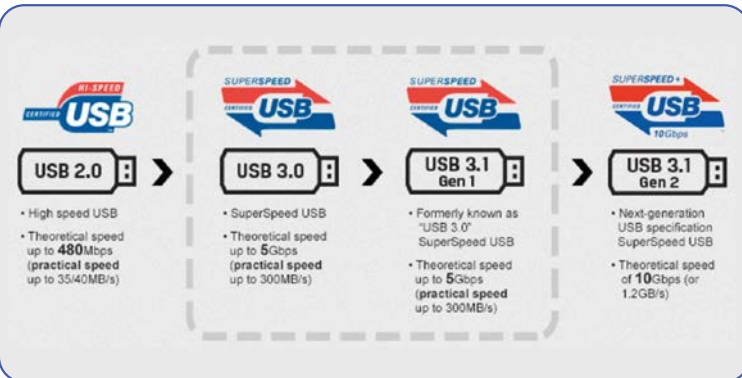
At the time of USB-IF's formation in the late 1990s, modern computing was beginning to blossom but interface technologies were lagging behind. USB-IF stepped in to create a standard connector type to replace the many serial or parallel ports.

Throughout the years, various protocol upgrades were released, increasing data rates and power capabilities, as well as new shapes and sizes of connectors. At the point that USB-C was developed in 2014, there were 11 different USB connector types but being largely physically incompatible with one another.

USB-C is the latest connector type developed by the USB Implementer's Forum (USB-IF) and is designed to replace all previous USB connectors versions. USB-C connectors are truly reversible, meaning you can plug it in either orientation, and end the struggle to connect a USB cable. No more flipping the cable around multiple times to find the proper orientation. All USB-C cables can interconnect using another connector on one end of the cable but in the future USB-C to USB-C cables will become the standard.

USB-C is slim, reversible, with a connector with 24 pins compared to 9 pins on the previous generation of USB 3.0. These extra pins allow for increased power, data, and video. While USB 3.0 ports and their 9 pins were capped at a 5Gbps transfer rate, USB-C can support up to 80Gbps depending on the protocol, and eventually carry up to 240W of Power.

The USB-IF are now introducing a new brand commonly referred to as SuperSpeed. See chart below.



Old Technical Name	USB 3.0	USB 3.1	USB 3.2
New Technical Name	USB 3.2 Gen 1	USB 3.2 Gen 2	USB 3.2 Gen 2x2
Marketing Name	SuperSpeed USB	SuperSpeed USB 10Gbps	SuperSpeed USB 20Gbps
Bandwidth	5Gbps	10Gbps	20Gbps
Connector	USB-A and USB-C	USB-A and USB-C	USB-C only



## USB-IF Compliance Program

The Universal Serial Bus (USB) specification defines the product design targets at the level of interfaces and mechanisms. To complement the specification and enable measurement of compliance in real products, the USB-IF has instituted a Compliance Program that provides reasonable measures of acceptability. The Compliance Program uses multiple test specifications along with a Test ID (TID) to track and define the test criteria used to evaluate a product. Products that pass this level of acceptability are considered USB-IF certified and are added to the Integrator's List and have the right to license the USB-IF Logos.

**About the USB-IF** The non-profit USB Implementers Forum, Inc. was formed to provide a support organization and forum for the advancement and adoption of USB technology as defined in the USB specifications. The USB-IF facilitates the development of high-quality compatible USB devices through its logo and compliance program, and promotes the benefits of USB and the quality of products that have passed compliance testing. Further information, including postings of the most recent product and technology announcements, is available by visiting the USB-IF website at [www.usb.org](http://www.usb.org)

## USB4

The USB4 specification has three new benefits:

- Two-lane operation with up to 40 Gbps operation (over certified cables), using the USB Type-C connection; Currently, the fastest USB specification, USB 3.2 Gen 2x2, only offers transfer speeds up to 20 Gbps, though its 10 Gbps counterpart is far more common on devices. USB 3.2 Gen 2 transfers data at up to 10 Gbps, USB 3.2 Gen 1 (and all previous USB 3.0 and 3.1 specifications) operate at up to 5 Gbps. USB4 will be able to move data at up to
- Backward compatibility with USB 3.2, USB 3.1, USB 3.0, USB 2.0, and even Thunderbolt 3.
- USB4 will use the USB Type-C connection.

## USB-C Enables Exciting New Possibilities

### Higher quality displays

- Experience resolutions beyond 4K with DisplayPort over USB-C
- Connect a computer to dual 4K Ultra HD displays
- Enable multiple monitors with a single connector, using MST



### Docking with ease

- Increase productivity with true single-cable docking
- Enable display, charging, power, networking, data and audio with one connection



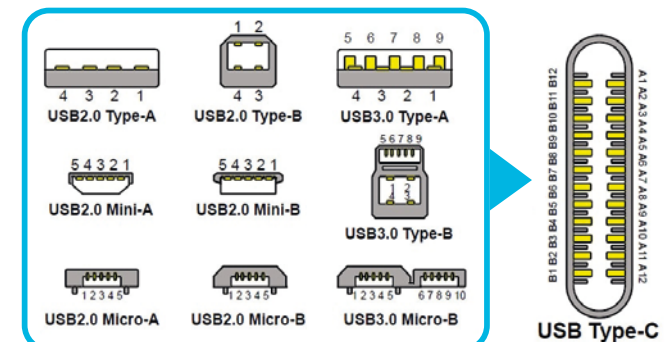
### Universal charging & power

- USB-C enabled laptops can be charged via the USB-C port, eliminating the need for proprietary power cords
- Power & charge any USB-C enabled device with the same cable



### Designed for the future

- USB-C currently supports data speeds up to USB 3.1 (10 Gbps)
- Designed to scale as faster data speeds evolve





COMPUTER CABLES  
**TECH TERMS**

## USB3.1c Cable

A new connector has arrived for computers, peripherals, and mobile devices, the USB-C connector. Also known as USB Type-C, it's much more than just USB. Unlike its predecessors, the USB-C connector offers an array of benefits:

- **Supports multiple technologies** to accommodate Alternate Modes. The Alt Mode spec allows for DisplayPort, HDMI, and Thunderbolt 3 protocols to be transferred over a USB connection.
  - **Powers and charges your laptop.** USB-C can deliver up to 100W of power making it perfect for tablets and laptops. Bandwidths of 10Gbps using USB 3.1 and 40Gbps using Thunderbolt 3
- The USB-C cable head is smaller than before, and looks a bit like a Micro-USB connector. Eventually this is the USB connector you'll use with your devices instead of using your existing USB-A, Micro-B, USB-Mini or Lightning cable. Many popular laptops and phones have already switched to, or added USB-C ports.



## USB Cables and Connectors

**You can use USB cables to:**

- connect most new devices to your computer
- connect computer accessories like mice, keyboards, etc
- charge a variety of gadgets including mobile phones
- transfer data

**How to recognize USB Cables**

- The standard USB connector, USB-A, is a rectangular connector.
  - The USB-A end is present on every USB cable as it is the end that connects to your computer.
- The other end of the USB cable may have different connectors including:
  - USB-B; commonly used with printers, external hard drives, and larger devices
  - Mini-USB and Micro-USB; commonly used with portable devices
  - USB Male to Female connectors for extending the length of a USB cable.



## Use an Existing Port

If you have a spare video or USB 3.0 port, it's easy and inexpensive to connect your computer to another monitor.

MY COMPUTER HAS THIS PORT	I WANT TO CONNECT TO			
	VGA	DVI	HDMI	DisplayPort
Mini DisplayPort	WAV-003	WAV-001	WAV-002	—
DisplayPort	24-0204	24-0205	24-0208	32-2422A
HDMI	24-0209	32-3750	32-3632	—
Micro HDMI	—	—	32-3646	—
Mini HDMI	—	—	32-3640	—
USB 3.0	24-0304	24-0303	24-0306	24-0307

## VGA

One of the most common video connectors for computer monitors and high-definition TVs is the VGA cable. You may also use a VGA cable to connect your laptop to a TV screen or a projector. Converter cables are available to let VGA monitors connect to newer computers that only output HDMI or DVI signals.





# Computer Cables

## PART NO DESCRIPTION

### DisplayPort Cables & Adaptors

#### DisplayPort 1.4 Male - DisplayPort Male 1.4 8K@60Hz, 4K@120Hz Black

24-1401	1m DisplayPort Male 1.4 - DisplayPort Male 1.4 (8K@60Hz, 4K@120Hz) Black
24-1402	2m DisplayPort Male 1.4 - DisplayPort Male 1.4 (8K@60Hz, 4K@120Hz) Black
24-1403	3m DisplayPort Male 1.4 - DisplayPort Male 1.4 (8K@60Hz, 4K@120Hz) Black
24-1405	5m DisplayPort Male 1.4 - DisplayPort Male 1.4 (8K@60Hz, 4K@120Hz) Black

#### DisplayPort 1.4 Male - Male 1.4 AOC Active Optical LSOH Cable

32-3730	10m DisplayPort Male 1.4 - Male 1.4 AOC Active Optical LSOH Cable
32-3731	15m DisplayPort Male 1.4 - Male 1.4 AOC Active Optical LSOH Cable
32-3732	20m DisplayPort Male 1.4 - Male 1.4 AOC Active Optical LSOH Cable
32-3733	30m DisplayPort Male 1.4 - Male 1.4 AOC Active Optical LSOH Cable

#### DisplayPort Male 1.2 - DisplayPort Male 1.2 (4Kx2K@60Hz) Black

32-2421A	1m DisplayPort Male 1.2 - DisplayPort Male 1.2 (4Kx2K@60Hz) Black PVC Cable
32-2422A	2m DisplayPort Male 1.2 - DisplayPort Male 1.2 (4Kx2K@60Hz) Black PVC Cable
32-2423A	3m DisplayPort Male 1.2 - DisplayPort Male 1.2 (4Kx2K@60Hz) Black PVC Cable
32-2425A	5m DisplayPort Male 1.2 - DisplayPort Male 1.2 (4Kx2K@60Hz) Black PVC Cable

#### DisplayPort Male 1.2 - DVI-D Male 1080p Uni-D Black

24-0211	1m DisplayPort Male 1.2 - DVI-D Male 1080p Uni-D Black Cable
24-0206	2m DisplayPort Male 1.2 - DVI-D Male 1080p Uni-D Black Cable
24-0207	3m DisplayPort Male 1.2 - DVI-D Male 1080p Uni-D Black Cable

## PART NO DESCRIPTION

#### DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Uni-D Black Cable

24-0215	1m DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Uni-D Black Cable
24-0216	2m DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Uni-D Black Cable
24-0222	2m Active DisplayPort Male 1.3 - HDMI 1.4b Male (4Kx2K@60Hz) Black Cable
24-0217	3m DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Uni-D Black Cable
24-0218	5m DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Uni-D Black Cable

#### DisplayPort 1.2 Male - SVGA HD15 Male 1080i Black Cable

32-2151	1m DisplayPort Male 1.2 - SVGA HD15 Male 1080i Black PVC Cable
32-2152	2m DisplayPort Male 1.2 - SVGA HD15 Male 1080i Black PVC Cable
32-2155	5m DisplayPort Male 1.2 - SVGA HD15 Male 1080i Black PVC Cable

#### DisplayPort 1.2 Male - Mini DisplayPort Male (4Kx2K@60Hz) White Cable

32-2411A	1m DisplayPort Male 1.2 - Mini DisplayPort Male (4Kx2K@60Hz) White PVC Cable
32-2412A	2m DisplayPort Male 1.2 - Mini DisplayPort Male (4Kx2K@60Hz) White PVC Cable
32-2413A	3m DisplayPort Male 1.2 - Mini DisplayPort Male (4Kx2K@60Hz) White PVC Cable

#### DisplayPort 1.2 Male - USB3.1c

40-4020	1m DisplayPort Male 1.2 - USB 3.1c Male (4Kx2K@60Hz) Black Cable
40-4021	2m DisplayPort Male 1.2 - USB 3.1c Male (4Kx2K@60Hz) Black Cable

#### DisplayPort Adaptors

24-0313	USB 3.1c Male 3-in-1 MST Splitter Adaptor
24-0314	3-in-1 DisplayPort MST Splitter Adaptor (Input 1 HDMI + 2 DisplayPort)
24-0315	3-in-1 DisplayPort MST Splitter Adaptor (Input 3 x DisplayPort)

# Computer Cables

## DisplayPort Cables & Adaptors | DVI Cables & Adaptors



PART NO	DESCRIPTION
24-0196	15cm Active DisplayPort Male 1.2 - HDMI 1.4b (4Kx2K@30Hz) Black Adaptor
24-0200	DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Black Adaptor
24-0201	DisplayPort Male 1.2 - DVI 1080p 60Hz Black Adaptor
24-0204	15cm DisplayPort Male 1.2 - SVGA 1080p 60Hz Black Adaptor
24-0205	15cm DisplayPort Male 1.2 - DVI 1080p 60Hz Black Adaptor
24-0208	15cm DisplayPort Male 1.2 - HDMI 1.4b 1080p 60Hz Black Adaptor
HCIFP-82	20cm 4K DisplayPort Female Lead - 25mm x 50mm DisplayPort Female Adaptor
24-0307A	20cm DisplayPort Female 1.2 (4Kx2K@60Hz) - USB 3.1c Male Black Active Adaptor

### Mini DisplayPort Male - HDMI 1.4b Male 1080p White Cable

32-2401	1m Mini DisplayPort Male - HDMI 1.4b Male 1080p White PVC Cable
32-2402	2m Mini DisplayPort Male - HDMI 1.4b Male 1080p White PVC Cable
32-2403	3m Mini DisplayPort Male - HDMI 1.4b Male 1080p White PVC Cable

### Mini DisplayPort Male - DVI 24+1 Male 1080p White Cable

32-2404	1m Mini DisplayPort Male - DVI 24+1 Male 1080p White PVC Cable
32-2405	2m Mini DisplayPort Male - DVI 24+1 Male 1080p White PVC Cable
32-2406	3m Mini DisplayPort Male - DVI 24+1 Male 1080p White PVC Cable

### Mini DisplayPort Male 1.1 - SVGA

32-2408	2m Mini DisplayPort Male 1.1 - SVGA HD15 Male 1080i Black PVC Cable
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### Mini DisplayPort Male - Mini DisplayPort Male 4K White Cable

32-2414A	0.5m Mini DisplayPort Male - Mini DisplayPort Male 4K White PVC Cable
32-2415A	1m Mini DisplayPort Male - Mini DisplayPort Male 4K White PVC Cable
32-2416A	2m Mini DisplayPort Male - Mini DisplayPort Male 4K White PVC Cable

### Mini DisplayPort Adaptors

WAV-001	20cm Mini DisplayPort Male - DVI Female 1080p 60Hz White Adaptor
WAV-002	20cm Mini DisplayPort Male - HDMI 1.4b 1080p 60Hz White Adaptor
WAV-003	20cm Active Mini DisplayPort Male - VGA 1080p 60Hz White Adaptor
WAV-004	20cm Mini DisplayPort Male - HDMI 1.4b (4Kx2K@30Hz) White Adaptor
WAV-006	20cm Active Mini DisplayPort Male - HDMI 1.4b (4Kx2K@60Hz) White Adaptor



PART NO	DESCRIPTION
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### DVI Cables & Adaptors

#### DVI-D 24+1 Dual Link 1080p Gold Male - Male 30AWG Black Cable

32-2799	1m DVI-D 24+1 Dual Link 1080p Gold Male - Male 30AWG Black PVC Cable
32-2800	2m DVI-D 24+1 Dual Link 1080p Gold Male - Male 30AWG Black PVC Cable
32-2801	3m DVI-D 24+1 Dual Link 1080p Gold Male - Male 30AWG Black PVC Cable
32-2802	5m DVI-D 24+1 Dual Link 1080p Gold Male - Male 30AWG Black PVC Cable
32-2803	10m DVI-D 24+1 Dual Link 1080p Gold Male - Male 28AWG Black PVC Cable

#### DVI-D 18+1 Single Link 1080p Male - Male 30AWG Black Cable

32-2806	3m DVI-D 18+1 Single Link 1080p Male - Male 30AWG Black PVC Cable
32-2807	5m DVI-D 18+1 Single Link 1080p Male - Male 30AWG Black PVC Cable
32-2808	10m DVI-D 18+1 Single Link 1080p Male - Male 28AWG Black PVC Cable

#### DVI-D Male 1080p 24+1 30AWG - HDMI 1.4b Male Black Cable

32-3749	1m DVI-D Male 1080p 24+1 30AWG - Gold HDMI 1.4b Male Black Cable
32-3750	2m DVI-D Male 1080p 24+1 30AWG - Gold HDMI 1.4b Male Black Cable
32-3752	3m DVI-D Male 1080p 24+1 30AWG - Gold HDMI 1.4b Male Black Cable
32-3753	5m DVI-D Male 1080p 24+1 30AWG - Gold HDMI 1.4b Male Black Cable

#### DVI 24+1 (4K@30Hz) Male - USB 3.1c Male

40-4033	2m DVI 24+1 (4K@30Hz) Male - USB 3.1c Male Black Cable
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#### DVI Adaptors

24-0286	15cm DVI & USB 3.0 - USB 3.1c with PD Function (Power Delivery) Adaptor
24-0295	15cm DVI, HDMI and VGA - USB 3.1c Adaptor
24-0303	20cm DVI Female (4Kx2K@30Hz) - USB 3.1c Male Tailed Active Adaptor
DVI-20	DVI-I Female - Female (Gold) 24+5 Dual Link Black Adaptor
HDMIF-DVIM	HDMI 1.4b Female DVI-D - Male DVI-D 24+1 Dual Link Black Adaptor
HDMIS343	DVI-D Female - HDMI 1.4b Male Black Adaptor

## HDMI Cables

## PART NO DESCRIPTION

## HDMI Cables



*This latest HDMI cable is the only cable that complies with stringent specifications designed to ensure support for all HDMI 2.1 features including uncompressed 8K@60 and 4K@120.*

## Ultra High Speed 2.1 8K@60Hz &amp; 4K@120Hz Ethernet HDMI Cable

32-3760	0.5m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3761	1m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3762	2m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3763	3m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3765	5m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable



*High Speed HDMI Cables that have been designed and certified for ultra-reliable performance for 4K/ UltraHD including advanced features such as 4K60, HDR, expanded color spaces including BT.2020, and 4:4:4 chroma sampling.*

## Premium High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz) Ethernet Cable

32-3670P	1m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz) Ethernet 30AWG Black PVC Cable
32-3672P	2m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz) Ethernet 30AWG Black PVC Cable
32-3673P	3m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz) Ethernet 30AWG Black PVC Cable

## PART NO DESCRIPTION



*The High Speed HDMI cable is designed and tested to handle video resolutions of 1080p and beyond, including advanced display technologies such as 4K, 3D, and Deep Color.*

## HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed+Ethernet HDMI Cable

32-3629	0.5m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3631	1m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3630	1.5m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3632	2m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3633	3m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3634	5m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3638	7m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3635	10m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3636	15m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3637	20m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3679	15m High Speed HDMI 1.4b Male-Male+Chipset (4Kx2K@60Hz)+Ethernet 28AWG Black Cable

## Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed+Ethernet Cable

32-3700	0.5m Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed + Ethernet 36AWG Black Cable
32-3702	1m Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed + Ethernet 36AWG Black Cable
32-3704	1.5m Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed + Ethernet 36AWG Black Cable
32-3705	2m Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) High Speed + Ethernet 36AWG Black Cable
32-3706	3m Slimline HDMI 1.4b Male - Male (4Kx2K@30Hz) High Speed + Ethernet 34AWG Black Cable
32-3708	5m Slimline HDMI 1.4b Male - Male (4Kx2K@30Hz) High Speed + Ethernet 34AWG Black Cable

## HDMI 1.4b Male - HDMI Male Mini C Black Cable

32-3640	2m HDMI 1.4b Male - HDMI Male Mini C High Speed + Ethernet 30AWG Black Cable
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Please see our website [www.cablenet.co.uk](http://www.cablenet.co.uk) for new product releases and up-to-date products and product information



# Computer Cables

## HDMI Cables | HDMI Adaptors | AOC Fibre Optic HDMI



### PART NO DESCRIPTION

#### HDMI 1.4b Male - DisplayPort 1.2 Male 1080p Black Cable

24-0215	1m HDMI 1.4b - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0216	2m HDMI 1.4b - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0222	2m HDMI 1.4b Male (4Kx2K@60Hz) - Active DisplayPort Male 1.3 Black Cable
24-0217	3m HDMI 1.4b - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0218	5m HDMI 1.4b - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable

#### HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable

32-3749	1m HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3750	2m HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3752	3m HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3753	5m HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3754	10m HDMI 1.4b Male - DVI-D Male 1080p 24+1 28AWG Black Cable

#### HDMI Male - SVGA + 3.5mm Stereo Cable

32-3658	1m HDMI Male - SVGA Male + 3.5mm Stereo 30AWG Black Cable
32-3659	1.8m HDMI 1.4b Male - SVGA Male + 3.5mm Stereo 30AWG Black Cable

#### HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black

32-3665	1m HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black
32-3668	2m HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black

We can manufacture many custom  
made cable assemblies in our

## IN-HOUSE WORKSHOP

See pages 43-44 for more details



### PART NO DESCRIPTION

#### HDMI Adaptors

24-0190	15cm HDMI 1.4b (4Kx2K@60Hz) - DisplayPort Male 1.2 Black Adaptor
HCIFP-80	20cm 4K HDMI 1.4b Female Lead - 25mm x 50mm HDMI 1.4b Female Adaptor
24-0300	20cm HDMI 1.4b USB 3.1c USB 3.0 - USB 3.1c Male Type A Active Adaptor
24-0306A	20cm HDMI Female 1.4b (4Kx2K@30Hz) - USB 3.1c Male Black Active Adaptor
40-1046	20cm HDMI Female - USB 3.0 Type A Male Black Adaptor
24-0209	HDMI 1.4b Male SVGA Female Passive Adaptor 1080p 60Hz + 3.5mm Audio + USB
HDMIS343	HDMI Male 1.4b - DVI-D Female Black Adaptor
HDMIS399	HDMI Right Angled Male 1.4b - Female Black Adaptor
24-0110	HDMI Female - 1080p 60Hz SVGA 3.5mm Audio Black Adaptor
HDMIF-DVIM	HDMI Female 1.4b DVI-D Male - DVI-D 24+1 Dual Link Black Adaptor
HDMIS402	HDMI Female 1.4b - Female Black Adaptor
24-0270	HDMI 1.4b - USB 3.1c Male Mini Adaptor

#### AOC Fibre Optic HDMI

##### Detachable AOC HDMI 2.0b 18Gbps Male - Male (4:4:4 4K@60Hz) LSOH Fibre Optic HDMI Cable

32-3781	10m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3782	20m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3783	30m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3785	50m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3787	70m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3790	100m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable

##### Detachable AOC HDMI 2.1 18Gbps Male - Male (4:4:4 4K@60Hz) LSOH Fibre Optic HDMI Cable

32-3791	5m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH
32-3792	7.5m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH
32-3794	15m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH
32-3795	20m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH
32-3796	30m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH

More lengths available





## AOC Fibre Optic HDMI | HDMI Extenders &amp; Splitters

## Computer Cables

## PART NO DESCRIPTION

**AOC USB3.1c GEN2 Cable**

32-3775	5m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3777	7.55m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3778	8m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3779	10m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable

**HDMI Extenders & Splitters**

32-3850	HDMI 2.0 Extender Cat5e/6 to 70m
32-3865	HDMI Over IP Extender by Cat5e/6 120 with IR Support
32-3871	HDMI 50m Point-to-Point Extender
32-3870	HDMI 70m Point-to-Point Extender with IR
32-3855	HDMI Point-to-Point Extender by Cat5e/6 - Uncompressed
32-3860	HDMI Point-to-Point Extender by Cat5e/6 - Uncompressed KVM Supported
32-3872	HDMI Extender Over Fibre Optical 40km
32-3873	HDMI 1 x 2 Extender Splitter
32-3874	HDMI 1 x 4 Extender Splitter
32-3875	HDMI 1 x 2 Splitter HDR Support
32-3876	HDMI 1 x 4 Splitter HDR Support
32-3877	HDMI 5 x 1 Switch HDR 4K
HDMI2PORT	2 Port HDMI Splitter 1 In 2 Out (4K)

**See our DisplayPort 1.4 AOC Cables  
on Page 77**

See our extensive range of  
**ETHERNET CABLES**

*in the Network Patch Leads section, page 9-26*



# Computer Cables

## Thunderbolt™

**Thunderbolt™ 4** brings Thunderbolt to USB-C at speeds up to 40 Gbps a computer port connects to Thunderbolt devices, every display, and billions of USB devices.



### PART NO DESCRIPTION

#### Thunderbolt™ Docking Stations

##### Thunderbolt™ 4 40Gbps Docking Station 9 Port

40-4250	Thunderbolt 4 - 9 Port Docking Station
40-4255	Thunderbolt 4 - 6 Port Docking Station



### PART NO DESCRIPTION

#### Thunderbolt™ Cable

##### Thunderbolt™ 4 40Gbps Cable

40-4208	0.8m Passive Thunderbolt4 40Gbps 8K Black Cable
40-4220	2m Active Thunderbolt4 40Gbps 8K Black Cable

##### Thunderbolt™ 3 20Gbps Cable

40-4238	0.8m Passive Thunderbolt3 20Gbps 8K Black Cable
40-4240	2m Passive Thunderbolt3 20Gbps 8K Black Cable

For more information on Thunderbolt™ please visit:

<https://www.intel.com/content/www/us/en/products/docs/io/thunderbolt/thunderbolt-technology-general.html>

### Add extra ports, features and functions to laptops...

- Multiple monitors and 4K video
- Gigabit Ethernet connections
- Additional USB ports and USB fast-charging

### Work more efficiently and with convenience...

- Single cable connection
- Laptop charging
- Reduce connecting and disconnecting devices
- Clean, clutter-free workspace

### Assists office flexibility and compatibility...

- Mac and Windows compatible
- Upgrade or change your laptop but keep the same dock
- Ideal for BYOD (Bring Your Own Device)
- Perfect for hot desks.

## AOC USB3.1c GEN2 Cable | USB Docking Stations | USB Adaptors

## Computer Cables

## PART NO DESCRIPTION

## AOC USB3.1c GEN2 Cable

32-3775	5m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3777	7.55m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3778	8m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable
32-3779	10m AOC USB 3.1c Gen2 Male - USB 3.1c Gen2 Male PVC Cable

## USB Docking Stations

Our laptop docking stations work with multiple monitors, Gigabit Ethernet, and access all your peripherals and devices while at your desk.

## USB 4 Docking Stations

40-4466	6 in 1 USB4 Docking Station
40-4471	11 in 1 USB4 Docking Station

## USB 3.1c Docking Stations

40-4115	5 in 1 USB-C Docking Station
40-4100	6 in 1 USB-C Docking Station
40-4111	11 in 1 USB-C Docking Station

## USB3 Docking Stations

40-4134	4 USB3 to 1 USB-C Docking Station
40-4135	5 USB3 to 1 USB-C Docking Station
40-4136	6 in 1 USB-C Docking Station with USB3, HDMI & Gigabit

## USB-C Docking Stations

40-4107	7 in 1 USB-C Docking Station
40-4108	8 in 1 USB-C Docking Station
40-4109	9 in 1 USB-C Docking Station
40-4113	13 in 1 USB-C to HDMI Docking Station
40-4136	USB-C DisplayLink 11 in 1 Docking Station - Enables 3 x Displays
40-4139	USB-C DisplayLink 11 in 1 Docking Station with 100W PD 3 x Displays

## USBC Power Plug

24-0323	USB-C 100w UK Power Plug with 1m Lead White
24-0322	USB-C 100w UK Adaptor Power Plug

## PART NO DESCRIPTION

## USB Adaptors

## USB 3.1c Adaptor Cables

24-0313	USB 3.1c Male 3-in-1 MST Splitter Adaptor
24-0314	3-in-1 DisplayPort MST Splitter Adaptor (Input 1 HDMI + 2 DisplayPort)
24-0315	3-in-1 DisplayPort MST Splitter Adaptor (Input 3 x DisplayPort)
24-0300	20cm USB 3.1c Male - HDMI 1.4b USB3.1c, USB 3.0 Type A Active Adaptor
24-0306	20cm USB 3.1c Male - HDMI 1.4b Female (4Kx2K@30Hz) Black Active Tailed Adaptor
24-0306A	20cm USB 3.1c Male - HDMI 1.4b Female (4Kx2K@30Hz) Black Active Adaptor
24-0282	15cm USB 3.1c - HDMI & USB 3.0 with PD Function (Power Delivery)
24-0301	20cm USB 3.1c Male - SVGA, USB 3.1c, USB 3.0 Type A Active Adaptor
24-0304	20cm USB 3.1c Male - VGA Female (1920x1080p@60Hz) Black Active Adaptor
24-0305	20cm USB 3.1c Male - VGA Female (1920x1080p@60Hz) White Active Tailed Adaptor
24-0303	20cm USB 3.1c Male - DVI Female (4Kx2K@30Hz) Active Adaptor
24-0307	20cm USB 3.1c Male - DisplayPort Female 1.2 (4Kx2K@30Hz) Black Active Tailed Adaptor
24-0307A	20cm USB 3.1c Male - DisplayPort Female 1.2 (4Kx2K@60Hz) Black Active Adaptor
40-4036	15cm USB 3.1c Male - Mini DisplayPort Female Adaptor
24-0308	20cm USB 3.1c Male - Ethernet RJ45 Female Adaptor
24-0312	20cm USB 3.1c Male - USB 3.0 Type A Female Black Adaptor
24-0325	1m USB 3.1c Male - USB 3.1c Male with USB 3.0 Adaptor Black
24-0310	USB 3.1c Male - USB3.0 Type A Female Black Adaptor
24-0311	USB 3.1c Female - USB3.0 Type A Male Black Adaptor

## USB 3.1c Mini Adaptors

24-0270	USB 3.1c Male - HDMI 1.4b Mini Adaptor
24-0271	USB 3.1c Male - DisplayPort 1.4 Mini Adaptor
24-0272	USB 3.1c Male - Gigabit Ethernet RJ45 Female Mini Adaptor

## USB 3.0 Display Adaptors

40-1046	20cm USB 3.0 Type A Male - HDMI Female Tailed Adaptor
40-1047	20cm USB 3.0 Type A Male - Gigabit Ethernet RJ45 Tailed Adaptor

## USB 2.0 Adaptors

40-1014	USB 2.0 - VGA/SVGA Adaptor
40-1029	2m USB 2.0 Serial DB9/25 Converter
40-1030	USB Type A Male - PS2 x 2 Female Converter
40-1032	USB 2.0 - Ethernet 10/100 Black Adaptor

Please see our website [www.cablenet.co.uk](http://www.cablenet.co.uk) for new Hub product releases and up-to-date products and product information.

# Computer Cables

## USB 4c Cables | USB-IF Certified | USB 3.1c - Display Cables | USB 3.0 Cables



### PART NO DESCRIPTION

#### USB 4c Cables

##### USB 4c Gen3.2 40Gbps Male - Male

40-4403	0.3m USB 4c Male Gen 3.2 40Gbps - USB4 Male Passive Black Cable
40-4405	0.5m USB 4c Male Gen 3.2 40Gbps - USB4 Male Passive Black Cable
40-4408	0.7m USB 4c Male Gen 3.2 40Gbps - USB4 Male Passive Black Cable
40-4410	1m USB 4c Male Gen 3.2 40Gbps - USB4 Male Passive Black Cable
40-4415	1.5m USB 4c Male Gen 3.2 40Gbps - USB4 Male Passive Black Cable

##### USB 4c Male - DisplayPort

40-4425	1m USB 4c Male - DisplayPort 1.2 (4Kx2K@60Hz) Male Black Cable
40-4426	2m USB 4c Male - DisplayPort 1.2 (4Kx2K@60Hz) Male Black Cable

##### USB 4c Male - HDMI

40-4441	1m USB 4c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable
40-4442	2m USB 4c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable
40-4443	3m USB 4c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable



#### USB-IF Certified

##### USB-IF Certified 2.0

USB2055BK-IF	USB-IF Certified 3m USB 2.0 Type C to USB Type A Black Cable
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##### USB-IF Certified 3.0

40-4415	USB-IF Certified 1.5m USB4c Gen3 40Gbps 100W PD Male-Male Black Cable
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##### USB-IF Certified 3.2

40-4301	USB-IF Certified 3.2 Gen2 20Gbps (Video) 100wPD 1m Male-Male Blk Cable
40-4302	USB-IF Certified 3.2 Gen2 20Gbps (Video) 60w PD 2m Male-Male Blk Cable



#### USB 3.1c - Display Cables

##### USB 3.1c - Display Cables

40-4020	1m USB 3.1c Male - DisplayPort 1.2 (4Kx2K@60Hz) Male Black Cable
40-4021	2m USB 3.1c Male - DisplayPort 1.2 (4Kx2K@60Hz) Male Black Cable
40-4022	3m USB 3.1c Male - DisplayPort 1.2 (4Kx2K@60Hz) Male Black Cable
40-4032	1m USB 3.1c Male - DVI 24+1 (4K@30Hz) Male Black Cable
40-4033	2m USB 3.1c Male - DVI 24+1 (4K@30Hz) Male Black Cable
40-4025	2m USB 3.1c Male - SVGA HD15 1080p 60Hz Male Black Cable



### PART NO DESCRIPTION

40-4029	2m USB 3.1c Male - Mini DisplayPort (4Kx2K@60Hz) Male Black Cable
40-4054	1m USB 3.1c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable
40-4055	2m USB 3.1c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable
40-4056	3m USB 3.1c Male - HDMI 1.4b (4Kx2K@60Hz) Male Black Cable

##### USB 3.1c Male - USB 2.0 Type A Male

40-4061	1m USB 3.1c Male - USB 2.0 Type A Male Black Cable
40-4062	2m USB 3.1c Male - USB 2.0 Type A Male Black Cable

##### USB 3.1c Male - USB 3.0 Type A Male

40-4066	1m USB 3.1c Male - USB 3.0 Type A Male Black Cable
40-4067	2m USB 3.1c Male - USB 3.0 Type A Male Black Cable

##### USB 3.1c - Cable Assemblies

40-4082	1m USB 3.1c - USB 2.0 Type B Male Black Cable
40-4092	2m USB 3.1c - USB 2.0 Micro Type B Male Black Cable

##### USB 3.1c - Lightning Cable

40-4077	2m USB 3.1c Male - Lightning MFI Cable White Cable
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#### USB 3.0 Cables

##### USB 3.0 Type A Male - Type A Female Active Extension

40-1040	5m USB 3.0 Type A Male - USB 3.0 Type A Female Active Black PVC Extension Cable
40-1041	10m USB 3.0 Type A Male - USB 3.0 Type A Female Active Black PVC Extension Cable

##### USB 3.0 Type A Male - USB 3.0 Type B Male

40-3020	3m USB 3.0 Type A Male - USB 3.0 Type B Male Blue Cable
40-3005BLK	1m USB 3.0 Type A Male - USB 3.0 Type B Male Black Cable
40-3010BLK	2m USB 3.0 Type A Male - USB 3.0 Type B Male Black Cable
40-3020BLK	3m USB 3.0 Type A Male - USB 3.0 Type B Male Black Cable
40-3030BLK	5m USB 3.0 Type A Male - USB 3.0 Type B Male Black Cable

##### USB 3.0 Type A Male - Micro Type B

40-3078BLK	2m USB 3.0 Type A Male - Micro Type B Black Cable
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##### USB 3.0 Type A Male - Type A Female Extension

40-3092	2m USB 3.0 Type A Male - USB 3.0 Type A Female Blue PVC Extension Cable
40-3092BLK	2m USB 3.0 Type A Male - USB 3.0 Type A Female Black PVC Extension Cable





PART NO	DESCRIPTION
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**USB 2.0 Cables****USB 2.0 Type A Male - Mini B**

32-3078	2m USB 2.0 Type A Male - USB Mini Type B Male Black PVC Cable
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**USB 2.0 Type A Male - Micro B**

32-3080	0.5m USB 2.0 Type A Male - USB Micro Type B Male Black PVC Cable
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32-3079	2m USB 2.0 Type A Male - USB Micro Type B Male Black PVC Cable
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**USB 2.0 Type A Male - Type A Female Active Repeater Cable**

32-3588	5m USB 2.0 Type A Male - USB 2.0 Type A Female Active Black Repeater Cable
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32-3589	10m USB 2.0 Type A Male - USB 2.0 Type A Female Active Black Repeater Cable
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32-3590	15m USB 2.0 Type A Male - USB 2.0 Type A Female Active Black Repeater Cable
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32-3591	20m USB 2.0 Type A Male - USB 2.0 Type A Female Active Black Repeater Cable
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**USB 2.0 Type A Male - Type B Male Active Repeater Cable**

32-3610	10m USB 2.0 Type A Male - USB 2.0 Type B Male Active Black Repeater Cable
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**USB 2.0 Type A Male - Type A Female Extension**

USB005BK	0.5m USB 2.0 Type A Male - USB 2.0 Type A Female Black PVC Extension Cable
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USB1000BK	1m USB 2.0 Type A Male - USB 2.0 Type A Female Black PVC Extension Cable
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USB2000BK	2m USB 2.0 Type A Male - USB 2.0 Type A Female Black PVC Extension Cable
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USB2001BK	3m USB 2.0 Type A Male - USB 2.0 Type A Female Black PVC Extension Cable
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USB2002BK	5m USB 2.0 Type A Male - USB 2.0 Type A Female Black PVC Extension Cable
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**USB 2.0 Type A Male - USB 2.0 Type A Male**

USB2048BK	0.5m USB 2.0 Type A Male - USB 2.0 Type A Male Black PVC Cable
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USB2049BK	1m USB 2.0 Type A Male - USB 2.0 Type A Male Black PVC Cable
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USB2050BK	2m USB 2.0 Type A Male - USB 2.0 Type A Male Black PVC Cable
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USB2052BK	3m USB 2.0 Type A Male - USB 2.0 Type A Male Black PVC Cable
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USB2051BK	5m USB 2.0 Type A Male - USB 2.0 Type A Male Black PVC Cable
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**USB 2.0 Type A Male - USB 2.0 Type B Male**

USB2008BK	0.5m USB 2.0 Type A Male - USB 2.0 Type B Male Black PVC Cable
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USB2009BK	1m USB 2.0 Type A Male - USB 2.0 Type B Male Black PVC Cable
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USB2010BK	2m USB 2.0 Type A Male - USB 2.0 Type B Male Black PVC Cable
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USB2020BK	3m USB 2.0 Type A Male - USB 2.0 Type B Male Black PVC Cable
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USB2030BK	5m USB 2.0 Type A Male - USB 2.0 Type B Male Black PVC Cable
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PART NO	DESCRIPTION
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**Cisco Compatible Cables**

34-5025	1.8m Blue Console Cable USB Type A Male - RJ45 Male
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34-5021	2.1m Blue Console Cable DB9 Female - RJ45 Male
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34-5112	3m Cisco Equivalent CAB-E1-RJ45BNC Cable
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**FPC Cables****USB 4**

44-4450	14cm USB 4 Type C Male - Male FPC 40Gbps
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**USB 3.2**

44-4451	13cm USB 3.2 Type C Male - HDMI Female Adaptor FPC 4K@60Hz
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44-4452	13cm USB 3.2 Type C Male - DisplayPort Female Adaptor FPC 4K@60Hz
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44-4453	12cm USB 3.2 Type C Male - VGA Femal Adaptor FPC 1080p HD @ 30Hz
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44-4454	15cm USB 3.2 Type C Male - RJ45 Female Adaptor FPC Gigabit 10/100/1000
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**USB Apple Products**

24-0321	Apple Compatible 2m USB-C to USB-C Charging Cable
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24-0320	Apple Compatible Fast Charger USB-C Socket to UK Plug 20W
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32-0301	1m USB 2.0 Type A Male - Lightning 8Pin Male White Cable
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32-0302	2m USB 2.0 Type A Male - Lightning MFI 8Pin Male White Cable
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40-4077	2m USB 3.1c Male - Lightning MFI White Cable
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**Serial RS232 Cables**

32-0386	2m RS232 Serial DB9 Male - Female All Lines Grey PVC Cable
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32-0388	5m RS232 Serial DB9 Male - Female All Lines Black PVC Cable
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32-0389	10m RS232 Serial DB9 Male - Female All Lines Grey PVC Cable
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# Computer Cables

## SVGA Cables | SVGA Adaptors | Gender Changers

### PART NO DESCRIPTION

#### SVGA Cables

##### SVGA DDC2 HD15 Male - Male Black Cable

32-1005	0.5m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1010	1m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1020	2m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1030	3m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1050	5m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1100	10m SVGA DDC2 HD15 Male - Male Black PVC Cable
32-1200	20m SVGA DDC2 HD15 Male - Male Black PVC Cable
GZS-5MF	5m SVGA HD15 Male - Female Black PVC Cable with Ferrites
GZS-10MF	10m SVGA HD15 Male - Female Black PVC Cable with Ferrites
GZS-15MF	15m SVGA HD15 Male - Female Black PVC Cable with Ferrites
GZS-20MF	20m SVGA HD15 Male - Female Black PVC Cable with Ferrites

##### SVGA DDC2 HD15 Male - Female Black Cable

GZS-1MM	1m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-2MM	2m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-3MM	3m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-5MM	5m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-10MM	10m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-15MM	15m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-20MM	20m SVGA HD15 Male - Male Black PVC Cable with Ferrites
GZS-30MM	30m SVGA HD15 Male - Male Black PVC Cable with Ferrites

##### SVGA with Audio HD15 Male - Male + 3.5mm Stereo Black Cable

V10AD-SVGA	10m SVGA with Audio HD15 Male - Male + 3.5mm Stereo Black PVC Cable
V15AD-SVGA	15m SVGA with Audio HD15 Male - Male + 3.5mm Stereo Black PVC Cable

### PART NO DESCRIPTION

#### SVGA Adaptors

24-0209	HDMI 1.4b Male SVGA Female Passive Adaptor 1080p 60Hz+3.5mm Audio+USB
24-2980	20cm SVGA Male - 2 x SVGA Female Black Cable Splitter
24-0110	SVGA 1080p 60Hz 3.5mm Audio - HDMI Female Black Converter
32-3658	1m SVGA Male + 3.5mm Stereo - HDMI Male 30AWG Black Cable
32-3659	1.8m SVGA Male + 3.5mm Stereo - HDMI Male 30AWG Black Cable
32-3665	1m SVGA Male + 3.5mm Stereo - HDMI 1.4b Male 30AWG Black Cable
32-3668	1.8m SVGA Male + 3.5mm Stereo - HDMI 1.4b Male 30AWG Black Cable
40-4025	2m SVGA HD15 - USB 3.1c Male 1080p 60Hz Male Black Cable
24-0301	20cm SVGA, USB 3.1c, USB 3.0 Type A - USB 3.1c Male Active Adaptor
24-0304	20cm VGA Female (1920x1080p@60Hz) - USB 3.1c Male Tailed Black Active Adaptor
24-0295	15cm VGA, DVI and HDMI - USB 3.1c Adaptor
24-0371	9cm SVGA 1080p 60Hz HDMI (4Kx2K@30Hz) - USB 3.1c Male Black Adaptor

#### Gender Changers

GENCHAN9MM	RS232 DB9 Male - Male Gender Changer
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**COMING SOON.... a range of Armoured Computer Cables**

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**MuxLab**



**NEUTRIK**



## Coaxial Cable

Coaxial cable is an electrical cable which transmits radio frequency (RF) signals and are often referred to as RG Cable, which vary by gauge and impedance. The data is carried in the centre conductor called the dielectric, while the surrounding layers of shielding stop any signal loss (also called attenuation loss) and help reduce EMI. There are two main types of coaxial cables with an impedance of 50 Ohm ( $\Omega$ ) 75 50 Ohm. Cables with 75 Ohm are mostly used for video signals, while 50 Ohm cables tend to be used for data and wireless communications. There are also URM & LMR versions available.

Popular types are:

Coaxial Cable Type	Outside Diameter
RG-58	4.95mm
RG-59	6.15mm
RG-6	6.90mm
RG-62	6.15mm
RG-11	10.30mm
RG-12	14.10mm
RG-213	10.30mm

### Coaxial Cable Connector Types

Coaxial cable connectors have two distinct connector styles male and female. Male connectors have metals pin which protrude from the centre and female connectors have a recessed hole to receive the pin. The most popular type is BNC, Bayonet Neil-Concelman, BNC are used for quick connection or disconnection in RF equipment, test instruments, radio, television, and video signal.

## HDBaseT

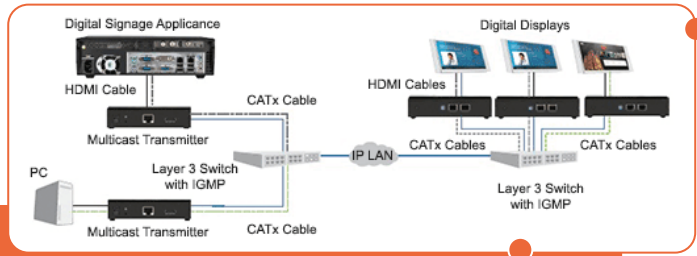
HDBaseT is a connectivity standard for distribution of uncompressed HD multimedia content. HDBaseT technology converges full HD digital video, audio, 100BaseT Ethernet, power over cable, and various control signals through a single LAN cable. This is referred to as 5Play™, a feature set that sets HDBaseT technology above the current standard.

### HDBaseT Architecture

HDBaseT sends video, audio, Ethernet, and control from the source to the display, but only transfers 100Mb of data from display to source (Ethernet and control data). The asymmetric nature of HDBaseT is based on a digital signal processing (DSP) engine and an application front end (AFE) architecture. HDBaseT uses a proprietary version of Pulse Amplitude Modulation (PAM) technology, where digital data is represented as a coding scheme using different levels of DC voltage at high rates. This special coding provides a better transfer quality to some kinds of data without the need to "pay" the protecting overhead for the video content, which consumes most of the bandwidth. HDBaseT PAM technology enables the 5Play feature-set to be maintained over a single 330-foot (100 m) CAT cable without the electrical characteristics of the wire affecting performance.

## HDMI Connector Standards

High-Definition Multimedia Interface (HDMI) was the first digital interface to combine uncompressed high-definition video, up to eight channels of uncompressed digital audio, and intelligent format and command data in a single cable. HDMI is the de facto standard for consumer electronics. HDMI is backward compatible with DVI. Buy only tested cables with the HDMI logo. This guarantees the cable will perform to specification especially because there is no maximum length specified in the HDMI standard. And because longer lengths require a larger cable, HDMI cables usually have 24–28 AWG copper conductors. For 1080p, Deep Color, or 3D content, choose High-Speed HDMI cables.



## AV over IP Distribution

IP-based distribution technologies use transmitters and receivers to extend signals over a TCP/IP network (a LAN or even a WAN, for instance). Oftentimes, they're called IP streamers when used with codecs. But, when choosing one, be sure you're not looking at the consumer-grade devices for streaming video in small office applications; be sure it's a professional-grade multicasting product.

These sophisticated extenders use CATx cabling infrastructure, but in comparison to standard non-networked CATx extenders, they multicast data over an active Ethernet network. They do this by packetizing media streams for delivery over an IP-based network, so source content can be delivered anywhere you have Ethernet wiring.



### HDMI Connector

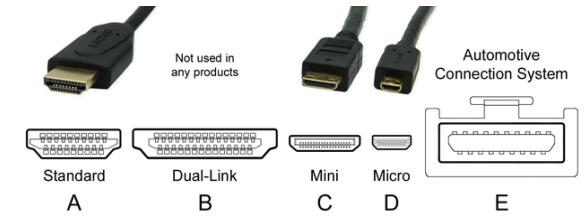
The HDMI connector is compact and is somewhat similar to a USB connector. Use this serial interface to connect audio/video equipment, such as DVD players, a set-top box and A/V receivers with an audio and/or video monitor, such as digital TV over a single cable. HDMI works with standard, enhanced, and high-definition video. It has a bandwidth from 10.2 Gigabytes so it supports all HDTV standards and has bandwidth to spare for future applications. What's more, HDMI is backward compatible with DVI equipment, such as PC's, TV's and other electronic devices using the DVI standard. The DVI device simply ignores the extra data.

### What is HDMI Distribution?

HDMI distribution is achieved by AV devices, such as extenders, switches or matrices, that accept a single input signal and distribute the same signal to multiple isolated outputs and/or destinations without ground loops or signal degradation. They are used for a number of common engineering tasks, including multiple amplification, cable television, splitting monitor and front of house mixes, and "tapping" a signal prior to sending it through effects units to preserve a "dry" signal for later experimentation.

### HDMI Connector Types

There are multiple different types of HDMI cable connectors sold on today's market. Although they all essentially do the same thing, they're not usually interchangeable in any specific application or device. In other words, you'll need to know which connector type you're going to be using before making a purchase.



There are currently five standard connector types available for HDMI cables, namely:

- Type A (standard)
- Type B (dual link - not currently used in any mainstream consumer products)
- Type C (mini)
- Type D (micro)
- Type E (the Automotive Connection System, chiefly developed for in-vehicle use)

These various HDMI cable connector types are easy enough to identify physically, due to their noticeably different sizes. However, if you're not familiar with the naming schemes for HDMI subtypes, then the range of available options can look a little confusing at first glance. Rest assured that, for the vast majority of home and workplace applications, HDMI connector types A, C and D (standard, mini and micro) will be the only versions you'll generally need.



# AV & Security

## PART NO DESCRIPTION

### BNC Cable Assemblies

#### RG58

ASB58-0.5	0.5m RG58 Plug - Plug Booted Black Cable
ASB58-2	2m RG58 Plug - Plug Booted Black Cable
ASB58-3	3m RG58 Plug - Plug Booted Black Cable
ASB58-5	5m RG58 Plug - Plug Booted Black Cable

#### RG59

ASB59-0.5	0.5m RG59 Plug - Plug Booted Black Cable
ASB59-1	1m RG59 Plug - Plug Booted Black Cable
ASB59-2	2m RG59 Plug - Plug Booted Black Cable
ASB59-3	3m RG59 Plug - Plug Booted Black Cable
ASB59-10	10m RG59 Plug - Plug Booted Black Cable
ASB59-20	20m RG59 Plug - Plug Booted Black Cable

#### RG179

ASB179-0.5	0.5m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-1	1m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-2	2m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-3	3m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-5	5m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-10	10m RG179 Plug - Plug Booted Black LSOH Cable
ASB179-20	20m RG179 Plug - Plug Booted Black LSOH Cable

## PART NO DESCRIPTION

### VFX2000 HD-SDI Cables

NASB2000BK-05	0.5m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-1	1m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-3	3m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-5	5m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-10	10m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-15	15m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-20	20m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-25	25m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-30	30m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-40	40m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable
NASB2000BK-50	50m VFX2000 Neutrik BNC Plug - Plug HD-SDI Booted Black Cable

### Coaxial Cable

#### RG58

CAB58C	RG58CU 500hm LSOH CPR Eca Coax Cable Black 100m Reel
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#### RG179

CAB179	RG179 750hm LSOH CPR Eca Coax Cable Black 100m Reel
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#### RG59

EC-CAB59	RG59 750hm Solid PVC CPR Eca Braid Coax Cable Black 100m Reel
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# AV & Security

## Cable Boots | BNC Adaptors & Plugs



### PART NO DESCRIPTION

#### Cable Boots

##### RG58 Boot

BOOT58-BLK	RG58 Strain Relief Boot Black
BOOT58-BLU	RG58 Strain Relief Boot Blue
BOOT58-WHI	RG58 Strain Relief Boot White

##### RG59 Boot

BOOT59-BLK	RG59 Strain Relief Boot Black
BOOT59-BLU	RG59 Strain Relief Boot Blue
BOOT59-GRN	RG59 Strain Relief Boot Green
BOOT59-RED	RG59 Strain Relief Boot Red
BOOT59-VIO	RG59 Strain Relief Boot Violet
BOOT59-WHI	RG59 Strain Relief Boot White
BOOT59-YEL	RG59 Strain Relief Boot Yellow



##### RG174/179 Boot

BOOT1694BLK	VFX2000/1694 Eq. Strain Relief Boot VFX2000 + 1694 Equiv
BOOT174-BK	RG174/179 Strain Relief Boot Black
BOOT-174GR	RG174/179 Strain Relief Boot Grey



#### BNC Adaptors & Plugs

##### BNC Crimp Plug RG58CU

BNC1-58	BNC Crimp Plug RG58CU Turned
BNC2-58	BNC Crimp Plug RG58CU Turned Handy Pack 100pcs
BNC2-58D	BNC Crimp Plug RG58CU Diecast Handy Pack 100pcs
BNC8-58	BNC Crimp Jack RG58CU Turned
TNC1-58	TNC Crimp Plug RG58

##### BNC Crimp Plug RG59

BNC1-59-A	BNC Crimp Plug RG59 Diecast
BNC1-59BT	BNC Crimp Plug RG59 + Black Boot Diecast
BNC1-M59W	BNC Crimp Plug Mini RG59 Turned
BNC1-T59	BNC Crimp Plug RG59 Turned



### PART NO DESCRIPTION

BNC2-59D-A	BNC Crimp Plug RG59 Diecast Handy Pack 100pcs
BNC5-59	BNC Right Angle Crimp Plug RG59 Turned
BNC6-59	BNC Twist On Plug RG59 Diecast
BNC8-59	BNC Crimp Jack RG59 Turned

##### BNC 4 Part Crimp Jack RG179

BNC8-179	BNC 4 Part Crimp Jack RG179 Turned
BNC10-179	BNC 4 Part Crimp Jack RG179 Insulated Turned
BNC1-179	BNC 4 Part Crimp Plug RG179 Turned
BNC1-179BT	BNC 4 Part Crimp Plug RG179 + Black Boot Turned
BNC1-179D	BNC 4 Part Crimp Plug RG179 Diecast
BNC1-179D-BT	BNC 4 Part Crimp Plug RG179 + Black Boot Diecast
BNC2-179D	BNC Crimp Plug RG179 Diecast Handy Pack 100pcs
BNC4-179	BNC 4 Part Crimp Jack RG179 Turned Handy Pack 100pcs
BNC5-179	BNC Right Angle Crimp Plug RG179 Turned

##### BNC Socket and Adaptors

BNC20-75	BNC Inline Socket - Socket Coupler 750hm Diecast
BNC20T	BNC Inline Socket - Socket Coupler 500hm Turned
BNC22	BNC Bulkhead Socket - Socket Insulated Coupler 750hm Turned
BNC23D	BNC Plug - Socket Right Angle - Short 750hm Diecast
BNC24	BNC T Adaptor Plug - Socket - Socket
BNC25	BNC F Adaptor Plug - Socket - Socket
BNC26	BNC Y Adaptor Plug - Socket - Socket Turned
BNC31	BNC Terminator Plug 750hm
BNC33	BNC Plug - Plug Adaptor 750hm

##### BNC Miscellaneous

BNC1-100	BNC Crimp Plug CT100 (RG6) Turned
BNC1-11	BNC Crimp Plug RG11 Turned
BNC1-125	BNC Crimp Plug CT125 Turned
BNC1-125RB	BNC Crimp Plug CT125 RBS Turned
BNC1-3002	BNC Crimp Plug BT3002 Turned
BNC1-SD	BNC Crimp Plug SDI Serial Digital Turned

# BNC Adaptors & Plugs | BNC Tools | Multimedia | MuxLab Products

## AV & Security



PART NO	DESCRIPTION
BNC7	BNC Clamp Plug RG6, RG58, RG59, PSF1/3, CT100 Turned
BNC8-SD	BNC Crimp Jack VFX720 SDI Turned
BSA1	BNC Plug - RCA Socket
BSA2	BNC Socket - RCA Plug
F1-100	F Crimp Plug CT100
VBNCSD-1	BNC Gold Crimp Plug VFX720 SDI Turned



### BNC Tools

TOOL1	RG58 & RG59 Ratchet Crimp Tool
TOOL4	RG58 & RG59 Cable Stripper
TOOL14HQ	Tool Kit (RG59/58 Crimp Tool + Stripper + Cutter) High Quality
TOOL45	Tool Kit (RJ45/RJ11 Crimp Tool + 2a Tool + Cutters)
TOOL2	RG59, RG6, CT100 & CT125 Ratchet Crimp Tool
TOOL3	RG11, RG213 & CT125RBS Crimp Tool
TOOL15-6	BNC Removal Tool 6inch
TOOL4-179	RG179 Cable Stripper
TOOL15	BNC Removal Tool 12inch
TOOL2HQ	RG59 & CT100 High Quality Ratchet Crimp Tool



### Multimedia

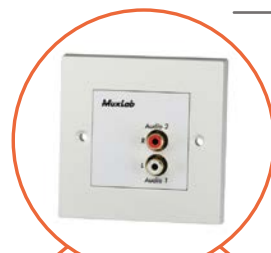
HCIFP-05	HDMI Female - Female (Gold) Keystone White
HCIFP-05BK	HDMI Female - Female (Gold) Keystone Black
HCIFP-15	USB 2.0 Type A Female - Female Keystone White
HCIFP-24	3.5mm Stereo Female - Female Keystone White
HCIFP-24BK	3.5mm Stereo Female - Female Keystone Black
HCIFP-25	F Type Female - Female Keystone White
HCIFP-25BK	F Type Female - Female Keystone Black
HCIFP-30	750hm BNC Female - Female Keystone White



PART NO	DESCRIPTION
HCIFP-40	HD15 Female - Female (25mm x 50mm) Module White
HCIFP-46	1 Port Keystone Housing (25mm x 50mm) White
HCIFP-46BK	1 Port Keystone Housing (25mm x 50mm) Black
HCIFP-47	2 Port Keystone Housing (25mm x 50mm) White
HCIFP-48	Blank Keystone White
HCIFP-48BK	Blank Keystone Black
HCIFP-50BK	Single Gang Dual Euro Faceplate Black
HCIFP-55BK	Cat5e 180 Unshielded IDC Keystone Jack Black
HCIFP-60	Cat5e UTP 110 IDC Keystone White
HCIFP-61BK	Cat5e UTP Female-Female Keystone Black
HCIFP-65	Cat6 UTP 110 IDC Keystone White
HCIFP-65BK	Cat6 UTP 110 IDC Keystone Black
HCIFP-66	Cat6 UTP Female - Female Keystone White
HCIFP-66BK	Cat6 UTP Female - Female Keystone Black
HCIFP-72	LC-LC Duplex MM Keystone White
HCIFP-72BK	LC-LC Duplex MM Keystone Black
AV-K16	16 Port 1u AV Black Patch Panel
AV-BNCBEZ75	BNC Female - Female A/V 750hm Bezel Black
AV-FBEZ	F Type A/V Bezel Black

### MuxLab Products

M500028-WP-UK	Muxlab Stereo HI-Fi Wall Plate Balun
M500028	Muxlab Stereo Hi-Fi Balun (RCA)
M500028-2PK	Muxlab Stereo Hi-Fi Balun (RCA) (2Pk)
M500030	Muxlab Stereo PC Audio Balun (3.5mm Jack)
M500027	Muxlab Stereo Audio Balun (RCA)
M500306/-2PK	Muxlab Shielded CATV Balun (2 Pack)
M500302	Muxlab CATV Balun II
M500302-2PK	Muxlab CATV Balun II (2pk)
M500009	Muxlab CCTV Screw Terminal Balun



# AV & Security

Kramer Products | Neutrik – XLR Connectors, SpeakON Connectors & Couplers, XLR & DMX Cables | Speaker Cable



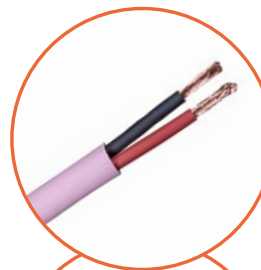
## PART NO DESCRIPTION

### Kramer Products

#### HDMI

*Kramer HDMI range of cables includes High speed, extended distance Fibre HDMI*

CLS-AOCH-XL-164 50m Kramer Active Optical High Speed Pluggable HDMI Cable Low Smoke & Halogen Free



## PART NO DESCRIPTION

### Speaker Cable

#### Speaker Cable

CABSP2X2.5-LS 2 Core 2.5mm Professional Grade LSOH CPR Eca Speaker Cable Black 100m  
CI-16-2-LS-PK 2 Core 1.5mm (41x0.2mm) Pro Grade LSOH CPR Eca Speaker Cable Pink 100m  
CI-16-4-LS-PK-2 4 Core 1.5mm (41x0.2mm) Pro Grade LSOH CPR Eca Speaker Cable Pink 200m  
CI-16-2-LS-PK-2 2 Core 1.5mm (41x0.2mm) Pro Grade LSOH CPR Eca Speaker Cable Pink 200m

#### Modular Cable

39-2504 4 Core PVC CPR Eca Silver Grey Flat Modular Cable 305m Reel  
39-2506 6 Core PVC CPR Eca Silver Grey Flat Modular Cable 305m Reel  
39-2508 8 Core PVC CPR Eca Silver Grey Flat Modular Cable 305m Reel

#### Microphone Cable

39-2015 2 Core 24AWG Flexible Microphone XLR Cable Black 100m Reel  
39-2018 2 Core 24AWG Flexible Microphone XLR Cable Black 500m Reel  
CAB2IS-BLK 2 Core Ind Screened LSOH PA Microphone 0.2mm CPR Eca Cable Black 100m

#### Earth Cable

EARTHCABLE 6941 X 2.5mm 1 Core (H07V-R) Green/Yellow Earth Cable 100m Reel



NEUTRIK

### XLR Connectors

NC3FXX Neutrik XLR 3 Pole Female Connector  
NC3FXX-D Neutrik XLR 3 Pole Female Connector (PK100)  
NC3MXX Neutrik XLR 3 Pole Male Connector



### SpeakON Connectors & Couplers

NL4FX Neutrik SpeakON 4 Pole Cable Connector  
NL4MP Neutrik SpeakON 4 Pole Panel Mount



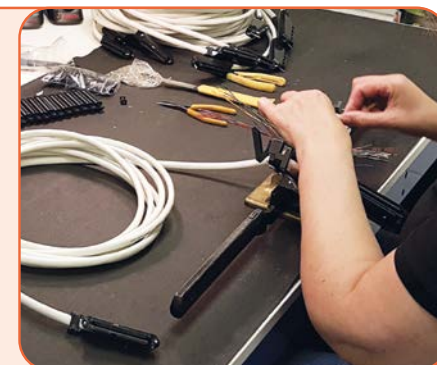
### XLR & DMX Cables

NK003-013-1 1m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-2 2m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-3 3m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-5 5m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-10 10m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-15 15m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-20 20m Neutrik XLR 3 Pole Male - Female Cable  
NK003-013-30 30m Neutrik XLR 3 Pole Male - Female Cable



We can offer Neutrik XLR, EtherCON, OpticalCON & PowerCON Cable Assemblies  
**MADE TO ORDER**  
in our workshop

Please contact our sales team for more details



Please see our website [www.cablenet.co.uk](http://www.cablenet.co.uk) for new product releases and up-to-date products and product information.



## HDMI Cables

## PART NO DESCRIPTION

## HDMI Cables



*This latest HDMI cable is the only cable that complies with stringent specifications designed to ensure support for all HDMI 2.1 features including uncompressed 8K@60 and 4K@120.*

## Ultra High Speed 2.1 8K@60Hz &amp; 4K@120Hz Ethernet HDMI Cable

32-3760	0.5m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3761	1m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3762	2m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3763	3m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable
32-3765	5m Ultra High Speed 2.1 Male-Male (8K@60Hz & 4K@120Hz)+Ethernet 30AWG Black PVC Cable



*High Speed HDMI Cables that have been designed and certified for ultra-reliable performance for 4K/UltraHD including advanced features such as 4K60, HDR, expanded color spaces including BT.2020, and 4:4:4 chroma sampling.*

## Premium High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz) Ethernet Cable

32-3670P	1m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 30AWG Black PVC Cable
32-3672P	2m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 30AWG Black PVC Cable
32-3673P	3m Premium High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 30AWG Black PVC Cable

## PART NO DESCRIPTION



*The High Speed HDMI cable is designed and tested to handle video resolutions of 1080p and beyond, including advanced display technologies such as 4K, 3D, and Deep Color.*

## HDMI 1.4b Male-Male (4Kx2K@60Hz) High Speed+Ethernet HDMI Cable

32-3629	0.5m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3631	1m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3630	1.5m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3632	2m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3633	3m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3634	5m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 30AWG Black Cable
32-3638	7m High Speed HDMI 1.4b Male-Male(4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3635	10m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3636	15m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3637	20m High Speed HDMI 1.4b Male-Male (4Kx2K@60Hz)+Ethernet 28AWG Black Cable
32-3679	15m High Speed HDMI 1.4b Male-Male+Chipset (4Kx2K@60Hz)+Ethernet 28AWG Black Cable

## Slimline HDMI 1.4b Male - Male (4Kx2K@60Hz) Hi Speed+Ethernet Cable

32-3700	0.5m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 36AWG Black PVC Cable
32-3702	1m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 36AWG Black PVC Cable
32-3704	1.5m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 36AWG Black PVC Cable
32-3705	2m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@60Hz)+Ethernet 36AWG Black PVC Cable
32-3706	3m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@30Hz)+Ethernet 34AWG Black PVC Cable
32-3708	5m Slimline High Speed HDMI 1.4b Male - Male (4Kx2K@30Hz)+Ethernet 34AWG Black PVC Cable

## HDMI 1.4b Male - HDMI Male Mini C

32-3640	2m HDMI 1.4b Male - HDMI Male Mini C High Speed + Ethernet 30AWG Black Cable
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Please see our website [www.cablenet.co.uk](http://www.cablenet.co.uk) for new product releases and up-to-date products and product information

# AV & Security

## HDMI Cables | HDMI Splitters | HDMI Adaptors | AOC Fibre Optic HDMI | HDMI Extenders



### PART NO DESCRIPTION

#### HDMI 1.4b Male - DisplayPort 1.2 Male 1080p Cable

24-0215	1m HDMI 1.4b Male - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0216	2m HDMI 1.4b Male - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0222	2m HDMI 1.4b Male (4Kx2K@60Hz) - Active DisplayPort Male 1.3 Black Cable
24-0217	3m HDMI 1.4b Male - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable
24-0218	5m HDMI 1.4b Male - DisplayPort Male 1.2 1080p 60Hz Uni-D Black Cable

#### HDMI 1.4b Male - DVI-D Male 1080p Cable

32-3749	1m Gold HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3750	2m Gold HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3752	3m Gold HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable
32-3753	5m Gold HDMI 1.4b Male - DVI-D Male 1080p 24+1 30AWG Black Cable

#### HDMI 1.4b Male - SVGA Male + 3.5mm Stereo Cable

32-3658	1m HDMI Male - SVGA Male + 3.5mm Stereo 30AWG Black Cable
32-3659	1.8m HDMI 1.4b Male - SVGA Male + 3.5mm Stereo 30AWG Black Cable

#### HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black

32-3665	1m HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black
32-3668	2m HDMI 1.4b - VGA Flat Cable w/audio 3.5 ST/M and USB A/M Power Black

### HDMI Splitters

HDMI2PORT	2 Port HDMI Splitter 1 In 2 Out (4K)
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### HDMI Adaptors

24-0209	HDMI 1.4b Male SVGA Female Passive Adaptor 1080p 60Hz+3.5mm Audio+USB
24-0110	HDMI Female - SVGA 1080p 60Hz 3.5mm Audio Black Adaptor
24-0190	15cm HDMI 1.4b (4Kx2K@60Hz) - DisplayPort Male 1.2 Black Adaptor
HDMI-FDVM	HDMI 1.4b Female DVI-D - Male DVI-D 24+1 Dual Link Black Adaptor
HDMI-S343	HDMI 1.4b Male - DVI-D Female Black Adaptor
HDMI-S399	HDMI Right Angled Male 1.4b - Female Black Adaptor
HDMI-S402	HDMI Female 1.4b - Female Black Adaptor
HCIFP-80	20cm 4K HDMI 1.4b Female Lead - 25mm x 50mm HDMI 1.4b Female Adaptor
24-0300	20cm HDMI 1.4b USB 3.1c USB 3.0 - USB 3.1c Male Type A Active Adaptor
24-0306A	20cm HDMI Female 1.4b (4Kx2K@30Hz) - USB 3.1c Male Black Active Adaptor



### PART NO DESCRIPTION

24-0270	HDMI 1.4b - USB 3.1c Male Mini Adaptor
40-1046	20cm HDMI Female - USB 3.0 Type A Male Tailed Adaptor

### AOC Fibre Optic HDMI

#### Detachable AOC HDMI 2.0b 18Gbps Male - Male (4:4:4 4K@60Hz) LSOH Fibre Optic HDMI

32-3781	10m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3782	20m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3783	30m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3785	50m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3787	70m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable
32-3790	100m Detachable AOC HDMI 2.0b 18Gbps Male-Male (4:4:4 4K@60Hz) LSOH Cable

#### AOC HDMI Ultra 2.1 48Gbps Male - Male (4:4:4 4K@120Hz/8K@60Hz) LSOH

32-3791	5m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable
32-3792	7.5m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable
32-3793	10m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable
32-3794	15m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable
32-3795	20m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable
32-3796	30m AOC HDMI 2.1 48Gbps Male-Male (4:4:4 4K@120Hz/8K@60Hz) LSOH Cable

### HDMI Extenders

32-3850	HDMI 2.0 Extender Cat5e/6 to 70m
32-3865	HDMI Over IP Extender by Cat5e/6 120 with IR Support
32-3871	HDMI 50m Point-to-Point Extender
32-3870	HDMI 70m Point-to-Point Extender with IR Support
32-3855	HDMI Point-to-Point Extender by Cat5e/6 - Uncompressed
32-3860	HDMI Point-to-Point Extender by Cat5e/6 - Uncompressed KVM Supported
32-3872	HDMI Extender Over Fibre Optical 40km
32-3873	HDMI 1 x 2 Extender Splitter
32-3874	HDMI 1 x 4 Extender Splitter
32-3875	HDMI 1 x 2 Splitter HDR Support
32-3876	HDMI 1 x 4 Splitter HDR Support
32-3877	HDMI 5 x 1 Switch HDR 4K

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# INTELLIGENT POWER & ACTIVE COMMUNICATIONS

## TECH TERMS

### 9 PDU "Must Haves"



#### 1. kWh metering accuracy of 1%

ISO/IEC +/- 1% billing-grade accuracy for reporting and billing. Accurate kWh metering allows you to measure actual energy usage for accurate customer or department charge-back billing or reporting. The data can be used to encourage energy efficient behaviour among users, establish power consumption baselines and analyse the effect of efficiency initiatives.

#### 2. Latching relays which consume 7W or less

Latching (bistable) relays only require power to switch from one state to another, i.e. on or off. This means the PDUs consume 67% less energy and thus produce less heat. Also, they can be configured to return to the pre-outage state instantly or sequence outlets on. Instantly on may be appropriate for operations where even moments of downtime can be costly, e.g. high-speed financial trading. Power sequencing may be important to minimize inrush current or where the operation requires certain devices to come on line before other devices, e.g. a data base used for processes.

#### 3. Removable "hot swap" intelligent controller

A flush-mount controller with industrial-grade reliability, configurable firmware, disaster recovery support and hot swap capability.

#### 4. High resolution colour display

The highest on-board resolution in the industry at 220 x 176, and easy to navigate menus. The colours are a useful indication such as turning the screen red for critical alarms. A built-in accelerometer enables the LCD display to change orientation automatically facilitating different installations.

#### 5. Maximum operating temperature rating as possible

Many data centres monitor cold aisle temperatures to provide optimal cooling but, most rack PDUs are located in the hot aisle where IT equipment exhaust temperatures are much higher. A maximum operating temperature of up to 140F (60C) is recommended for reliable performance in high-heat environments.

#### 6. Low-profile, flush-mount circuit breakers

Circuit breakers eliminate the need to stock fuses, don't require licensed electricians to change fuses, and eliminate the possibility of installing the wrong fuse. Low-profile circuit breakers improve rack accessibility by the elimination of circuit breaker doghouses (large housings) which can block inserting or removing devices in a rack. For rack PDUs rated 16A, the upstream facility circuit breaker provides sufficient overcurrent protection for the rack PDU so there are not circuit breakers on the PDU itself.

#### 7. Residual current monitoring option

Current monitoring reduces the risk of electric shock by measuring current leaking to ground. It automatically checks the residual current circuitry and generates alerts if there is an unsafe condition.

#### 8. User-configurable Power-On sequencing

Sophisticated outlet sequencing can power on equipment plugged into a single outlet or a group of outlets, e.g. devices with multiple power supplies. Power sequencing can minimize inrush currents and provide consistent powering up processes. User configurable means you can set which outlets to delay and how much to delay individual outlets, not just global settings to the entire PDU.

#### 9. Rapid USB configuration

Configuring a PDU can include firmware updates, location and device naming conventions, setting critical and non-critical thresholds for power and environmental sensors, etc. USB configuration is a reliable, quick and easy method of configuring PDUs. Once a sample configuration has been created purchase as many USB flash drives as you have power strips in a row of cabinets. Copy the desired settings/sample configuration onto the USB drives and insert them into each PDU. By the time you return to the first cabinet, the configuration will have automatically finished by itself. The process takes about 20 seconds. You can now remove the USB drives and move on to the next row. With minimal effort, a single person can configure hundreds of power strips in a few hours. This method of configuration ensures error-free deployments, something that is unlikely if each PDU must be configured manually.



### Common Questions

- Will restarting my Rack PDU affect power to the outlets?
- What is the default user name and password?
- What is the default IP address?
- Is it ok to change a fuse while the Rack PDU is still plugged in?
- Where can I find the MIB?

- Where can I find firmware updates?
- Where can I find the product manual for my Rack PDU?
- Where can I find a list of available data cables and power cords?
- Will restarting the Sentry Power Manager (SPM) affect power on my Rack PDUs?
- What do the 3 LED displays on my Rack PDU represent?
- My LED says "FE" or "bE". What does this mean?

- MY LED says "OL". What does this mean?
- How do I manually reset my Rack PDU back to factory defaults?
- Can I connect to "master" PDUs together?
- Where can I find more technical documents including trouble-shooting steps?

**We have the answers!**

### Need Help Finding the Right PDU? You Need to Know...

#### Global Region:

Asia Pacific • Americas • Australia/New Zealand • Europe

#### Metering Type:

None • Input • Outlet

#### Switched Outlets:

Yes • No

#### Outlet Count:

0 • 1-50

#### Plug Type:

C20 • CS8265C • IEC 60309 316P6 • IEC 60309 332P6  
IEC 60309 460P9 • IEC 60309 532P6 • NEMA 5-15P • NEMA L5-20P  
NEMA L5-30P • NEMA L6-30P • NEMA L21-30P

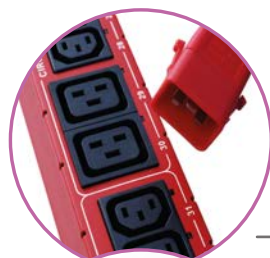
#### Form Factor:

0U • 1U • 2U



# Intelligent Power & Active Communications

**Raritan®**  
A brand of **legrand®**



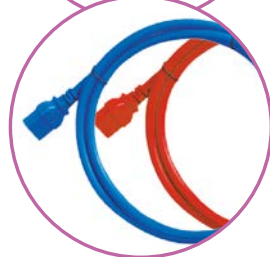
PART NO	DESCRIPTION
<b>PX5000</b>	<b>Switched and metered per outlet</b>
PX3-5190R	OS OM (16Amp) 8 x C13 Plug with IEC 60309 (16Amp) 1u
PX3-5466R	OS OM (32Amp) 20 x C13 Plug IEC 60309 (32Amp) 2u
PX3-5493V	OS OM (32Amp) 20 x C13 4 x C19 Plug IEC 60309 (32Amp) Zero U



<b>PX3000</b>	<b>Inline meters</b>
PX3-3220	Inline Meter 1 Phase (32 Amp) 2 lines Input Type 2 x AC Output 2 x AC Terminal 1u



<b>PX1000</b>	<b>Unit metered</b>
PX3-1493V	Unit Metered (32Amp) 20 x IEC C13 4 x IEC - C19 Plug IEC 60309 (32Amp) Zero U



<b>Transfer Switches</b>	
PX3TS-1875CR	Transfer Switch (16Amp) 9 Outlets 8 x IEC C13 1 x IEC C19 Input 2 x IEC C20
PX3TS-5191CR	Transfer Switch OS OM (16Amp) 8 Outlets 7 x C13 1 x C19 Input 2 x IEC C20 Lock

<b>SecureLock Leads</b>	
SLC14C13-0.5MK2-6PK	SecureLock Locking Leads 0.5m Blue 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-1.0MK2-6PK	SecureLock Locking Leads 1m Blue 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-1.5M-6PK	SecureLock locking Leads 1.5m Black 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-1.5MK1-6PK	SecureLock locking Leads 1.5m Red 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-1.5MK2-6PK	SecureLock locking Leads 1.5m Blue 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-2.0MK1-6PK	SecureLock Locking Leads 2m Red 16AWG 1 x IEC C14 x IEC C13 (PK 6)
SLC14C13-2.0MK2-6PK	SecureLock Locking Leads 2m Blue 16AWG 1 x IEC C14 x IEC C13 (PK 6)



PART NO	DESCRIPTION
<b>Sensors</b>	
DX2-T1	Dominion Px Temperature Sensor
DX2-T1H1	Dominion Px Temperature / Humidity Sensor
DX2-T3H1	Combo of Temperature (3), Humidity (1) and Sensors (T,T+H and T) 3m
DX2-T2H2	Combo of Temperature 2 Humidity 2 and Sensors 3m



<b>DKX3</b>	
DKX3-108	8 Port 1 x IP 1 x Local Digital KVM Switch
DKX3-832	32 Port KVM-over-IP switch 8 remote users 1 local user virtual medi
DKX3-UST	Dominion KX III USER STATION



<b>Serial Console Servers SX2</b>	
DSX2-4	4 Port Single Feed Serial Console Server
DSX2-8	8 Port Dual Feed Serial Console Server
DSX2-16	16 Port Serial Console Server with Dual Power AC and Dual Gigabit LAN
DSX2-32	32 Port Dual Feed Serial Console Server
DSX2-48	48 Port Serial Console Server Dual AC
DSX2-16M	16 Port Dual Feed Serial Console Server
DSX2-32M	32 Port Dual Feed Serial Console Server
DSX2-48M	48 Port Serial Console Server Dual AC



<b>Cims and Adaptors</b>	
D2CIM-DVUSB	Dominion USB Cim Virtual Media with Bios Access
D2CIM-DVUSB-HDMI	Digital DisplayPort USB CIM

# Server Technology®

A brand of **legrand®**

Server Technology is proud to be a brand of Legrand in the Datacenter Power and Control Division with our sister company Raritan. We are the division of Legrand leading the engineering and manufacture of customer-driven, innovative and exceptionally reliable power, access and control solutions for monitoring and managing critical IT assets for continual availability.

Server Technology's power strategy experts have provided power solutions for labs, data centers, and telecommunications operations for 30 years. Over 60,000 customers around the world rely on our rack power distribution units and award winning power management solutions to reduce downtime, facilitate capacity planning, improve energy utilization, and drive efficiency.

## The Best PDU Just Got Better with the New HDOT® Cx

### HDOT® Cx

The HDOT® Cx outlet is a UL tested hybrid of the C13 and C19 outlets. HDOT® Cx accommodates both C20 and C14 plugs, increasing density while providing ultimate flexibility. This innovative design reduces the complexity of the PDU selection process while lowering end costs.



### Benefits of using HDOT® Cx

- Combines two outlets into one
- Most outlets per form factor
- Easy load balancing with alternating phase technology
- Future ready for equipment updates
- Available in Smart, Switched, and POPS
- Custom configurations available
- Ships in 10 days



The Cx outlet is a UL tested hybrid of the C13 and C19 outlets. HDOT® Cx accommodates both C20 and C14 plugs.

## Advanced Technologies Overview

Our suite of advanced technologies for Smart, Switched, and Metered PDUs were developed to satisfy specific data center requirements.



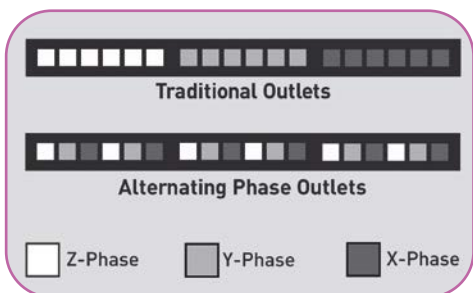
### HDOT (High Density Outlet Technology)

Server Technology PDUs with HDOT are the most popular on the market. HDOT is available for Switched and Smart PDUs solving today's top data center challenges: Power Density, Capacity Planning, and Remote Power Management. Maximize outlet density with our uniquely designed, high density modules for standard C13 and C19 outlets.



### PRO2® Platform (Firmware)

Improve uptime by maintaining high availability to your data through redundantly powered hot-swappable network cards and multi-link capability. Gain additional insight into rising loads or heat through multi-level alarms. Optional temperature and humidity probes with 10 ft. cords offer flexibility in terms of sensor placement.



### Alternating Phase Technology

Alternating phase outlets alternate the phased power on a per-outlet basis instead of a per-branch basis. This allows for shorter cords, quicker installation and easier load balancing for 3-phase rackmount PDUs. Shorter cords mean less mass, making them less likely to come unplugged during transport of the assembled rack.

## Intelligent Power & Active Communications

### 48VDC Intelligent PDUs

The Sentry 48DCWB-08-2X100-B0NB Intelligent PDU and Remote Power Manager minimizes the impact of locked-up routers, servers and other network devices on business-critical networks. CLECs, ILECs, ISPs and enterprises use the Sentry 48DCWB-08-2X100-B0NB to manage equipment in remote sites, co-location facilities and network operation centers.

Sentry 48DCWB-08-2X100-B0NB eliminates the need to dispatch a field service technician for manual intervention when devices lock-up. Using a 48DCWB-08-2X100-B0NB, the network operations center can quickly restart locked-up remote network servers to ensure that the network is fully operational around the clock.



### Accessories

#### The StartUp Stick:



The StartUp Stick provides a unique means to more easily create individual CDU configurations, including IP addresses, on a computer workstation and be able to mass deploy these configurations to each CDU in mere seconds. You get a spreadsheet-based tool with built-in rules verification, a standard USB interface for PC and MAC, simple LED pass/fail indicator, and on-board logging.

#### Environmental Monitoring:



Easily monitor environmental conditions. Ever increasing densities of vertically racked servers conserve valuable floor space in the data center, but the resulting power consumption and heat dissipation create new concerns for data center managers.



# Intelligent Power & Active Communications

## Smart POPS PDU

The Server Technology® Smart POPS PDU provides local LED input current monitoring, allowing IT personnel to determine safe levels of loading on a per-phase basis while installing equipment into the rack/cabinet. The integral PIPS® and POPS® technology provides accurate measurement of current (billing-grade), voltage, active power, apparent power, power factor, crest factor, and accumulated energy at the input and at each output. These power data points, along with temperature and humidity measurements (provided via optional probes), are accessible through the built-in Web and CLI interfaces as well as through SNMP. The Smart POPS "Master" PDU can be connected to a Smart POPS "Link" PDUs to extend the network access to the redundant or secondary power feed.



### Network Monitoring

Gain access to valuable data through connections including HTTP(S), SSH, Telnet, SNMP, (S)FTP, SMTP, Syslog, LDAP(S), RS-232 serial, and more.



### Temperature/Humidity Monitoring

Master and Link units each support two external 10' (3m) T/Hprobes. Receive SNMP-based alerts and email notifications.



### Auto-Flip Current Displays

Easy-to-read LEDs display current per phase to help prevent overloads and simplify three-phase load balancing in high-density cabinets. "Switched POPS".



### Per-Outlet Power Sensing

Meets ANSI C12.1 for billing-grade accuracy of Current per phase. POPS includes voltage, active power, apparent power, power factor, and energy.



### Branch Circuit Protection

This PDU meets the UL and IEC 60950-1 requirement for branch circuit protection through use of UL489 rated magnetic hydraulic circuit breakers or UL248 fuses.



### Outlet Control

On Switched rack PDUs, cycle power to individual outlets or groups of outlets to reboot servers. Or, power off unused receptacles.



### High Retention Locking Outlets

Receptacles have high retention and are compatible with P-Lock type power cards.



### Flexible Mounting

Includes standard button mounts along with provisions for custom mounting brackets (contact Server Technology for details).



### Color Identification

Choose from six colors to designate circuits for rack PDUs in the data center. Color options include blue, red, green, white, yellow, and black.

## Switched POPS PDU

The Server Technology® Switched POPS PDU provides control of outlet power and local LED input current monitoring, allowing IT personnel to determine safe levels of loading on a per-phase basis while installing equipment into the rack/cabinet. The integral and POPS® technology provides accurate measurement of current (billing-grade), voltage, active power, apparent power, power factor, crest factor, and accumulated energy at each output. These power data points, along with temperature and humidity measurements (provided via optional probes), are accessible through the built-in Web and CLI interfaces as well as through SNMP. The Switched POPS "Master" PDU can be connected to a Switched POPS "Link" PDU to extend the network access to the redundant or secondary power feed.



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# enLOGIC

A Division of CIS Global

With CIS Global's commitment to continuous improvement, the Enlogic brand has quickly become widely regarded as the technology innovation leader in energy management, helping data centres across the world to discover & improve operational efficiency, and optimise energy utilisation.

Today, CIS Global's commitment to R&D drives innovations that form the core technology used in both Enlogic branded as well as customised OEM branded solutions. With engineering and service footprint in Europe, North America and Asia with state of the art manufacturing facilities in Asia, CIS Global can support the local needs of all our global customers.

## PART NO DESCRIPTION

### Sensors

EA9102	Temperature Sensor
EA9105	3 Temperature/1 Humidity Sensor
EA9111	Spot Fluid Sensor

Simplifying rack environmental management with Enlogic plug and play sensors. Every Enlogic rack PDU and Inline Energy Meter is designed to accommodate up to 6 external sensor probes with user customisable alarms and notification. Each sensor is engineered with an embedded digital signal processing microchip for extended range and high accuracy operation. Every sensor probe is factory calibrated and designed for easy installation, setup, and identification.

### EN Series

EN1601	Enlogic EN Metered Horizontal 1u PDU (16Amp) 8 x C13 (16Amp) Commando
EN1337	Enlogic EN1K Metered PDU 36 x C13 & 6 x C19 (32Amp) Commando feed

The EN Series PDU is more than a power distribution unit and energy meter. Enlogic's PDUs monitor the data centre environment, continually looking for threats from electrical circuit overloads, and physical environmental conditions that place critical IT loads at risk.

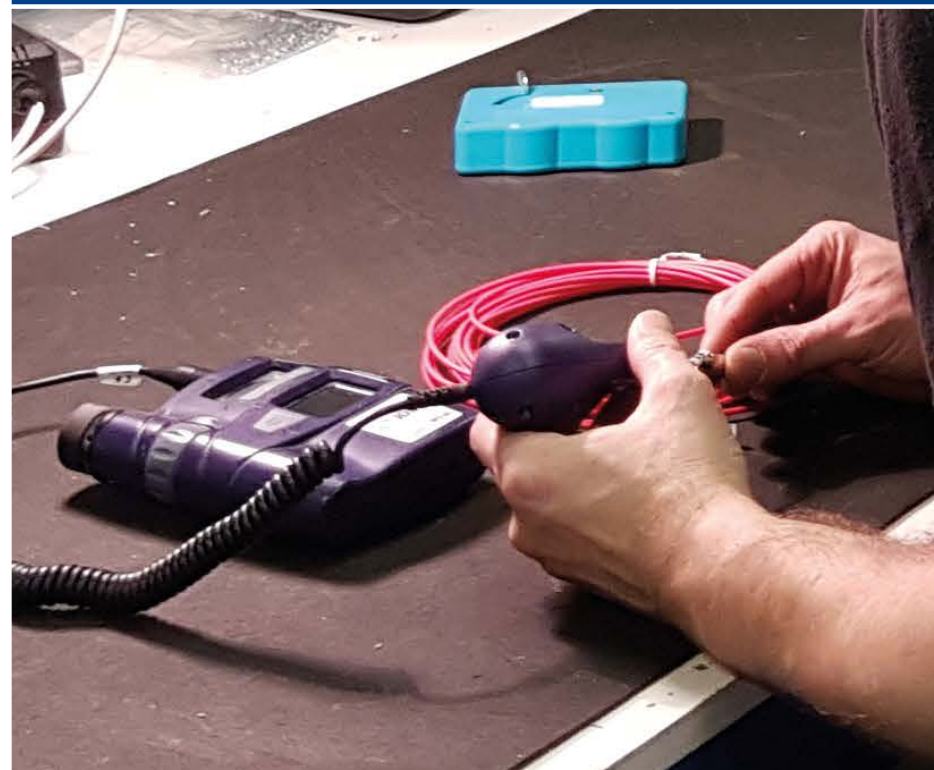
Enlogic's PDUs provide the most comprehensive, accurate, energy measurement data to efficiently use power resources, make informed capacity planning decisions, improve uptime, measure PUE, and drive green data centre initiatives to save energy and money.

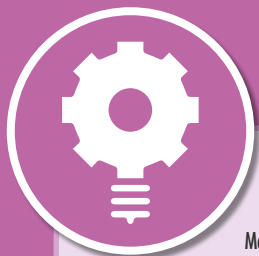
## Intelligent Power & Active Communications

We can manufacture many custom made power cable assemblies in our

## IN-HOUSE WORKSHOP

See pages 43-44 for more details



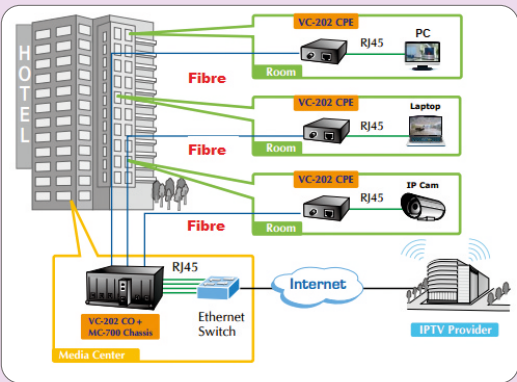


INTELLIGENT POWER & ACTIVE COMMUNICATIONS  
**TECH TERMS**

# Media Converters

Media conversion is a cost-effective solution to extend fiber networking rapidly rather than adopting optical fiber only. It also efficiently helps to solve the distance limit between the Ethernet and Local Area Network. With the feature-rich chassis provided by PLANET, at least 16 converters can easily expand the fiber optic networks by simply plug and play. The wiring distance of PLANET media converter chassis is extendable from 2 up to 120 kilometers and available upon request.

Building a network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs, PLANET Manageable family of media converter chassis and FST/GST converters offer the multiple selections for FTx deployment. The Managed family is a series of managed Media Conversion Center that provides hot plug and play slots for various types of converters. Through the management interface, the entire status of the converters can be remotely controlled within the chassis from on/off and status/statistics of ports, as well as the advanced features like redundant links.



# Switches

## What is a Network Switch?

Most business networks today use switches to connect computers, printers and servers within a building or campus. A switch serves as a controller, enabling networked devices to talk to each other efficiently. Through information sharing and resource allocation, switches save businesses money and increase employee productivity.



## What is an Unmanaged Network Switch?

An unmanaged switch works right out of the box. It's not designed to be configured, so you don't have to worry about installing or setting it up correctly. Unmanaged switches have less network capacity than managed switches. You'll usually find unmanaged switches in home networking equipment.



## What is a Managed Network Switch?

A managed network switch is configurable, offering greater flexibility and capacity than an unmanaged switch. You can monitor and adjust a managed switch locally or remotely, to give you greater network control.



# Ethernet Cabling Guidelines

	TWISTED PAIR	Multimode Fibre OM3	Multimode Fibre OM4	Singlemode Fibre OS2 1310mm	Singlemode Fibre OS2 1550mm
10BASE-T (10Mb/s)	✓	2000m	2000m	N/S	N/S
100BASE-T (100Mb/s)	✓	2000m	2000m	N/S	N/S
1000BASE-T (GbE)	✓	550m	1000m	5000m	N/S
10GBASE-T (10GbE)	✓	300m	550m	10000m	40000m
40GBASE-T (40GbE)	✓	100m	100m	10000m	40000m
100GBASE-T (100GbE)		100m	150m	10000m	40000m

N/S = Not Specified

# Powered by PoE

The first generation of PoE, IEEE 802.3af Type 1 (15W), was used for powering lower-power devices like IP clocks, VoIP phones and simple security cameras. With the development of IEEE 802.3at Type 2 (30W), higher level IEEE 802.3bt Type 3 (60W) and Type 4 (90W), and POH (100W) for AV applications, remote powering technology now powers everything from wireless access points, advanced pan-tilt-zoom cameras, access control devices and LED lights, to video displays, point of sale machines and even computers and laptops.

# Need to Know...

**While PoE is simple to install and support, there are still a few important aspects to consider:**

**PoE budget** – calculate how many devices will be connected and how many watts are needed for each of them. This will help determine the best type of switch, number of ports required, or number of switches needed. The good news is that the math is simple.

**Avoid vendor lock-in** – by choosing products that are standards-based and so can be blended in the same network.

**Stick to standards-based products** – without going into lots of technical detail, there have been various versions of PoE and equipment over the years, not all standards-based. Mixing-and-matching incompatible or products not compliant with current standards can affect performance or even cause system failure.

**Upgrades and flexibility** – plan for the future as much as possible, but also choose PoE solutions that can be easily extended or upgraded at a later date. Look for plug-and-play PoE product ranges that fit a wide variety of situations, from simple solutions for SMBs through to supporting the complex demands of mission-critical utilities.

**Make the most of extra features** – what will make the PoE network even better? For instance, will auto-sense for adjusting power requirements be useful? What about how the PoE switches are managed - can that be done remotely?



## PoE Tech Standards

The principle of PoE power supply is based on the use of twisted copper pairs of the Ethernet cable to power from the source called PSE (Power Sourcing Equipment), the remote equipment called PD (Power Device).

The IEEE 802.3 standard sets the maximum distance of the Ethernet cable at 100 meters to take into account losses caused by the resistivity of the cable.

An Ethernet cable is made up of four pairs of wires. When the connection is 10 or 100 Mbps, the data travels on only two pairs, namely wires 1, 2, 3 and 6; the other two spare parts, namely the wires 4, 5, 7 and 8, can be used to convey the electric current (type A). It is however possible to use the wires 1, 2, 3 and 6 to convey the data and the power (type B), leaving the free pairs unused. When the connection is above 100 Mbps, the four pairs are used to carry the data. In this case, the power can be transmitted on the wires 1, 2, 3 and 6 or 4, 5, 7 and 8. The IEEE 802.3af (15 W) and 802.3at (30 W) PoE standards describe these two scenarios.

According to the standard, PDs must support power transmission capabilities in both types A and B.

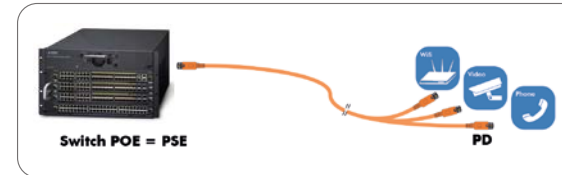
On power-up, the PSE needs to determine how much power it needs to supply the PD to avoid damaging it. For this there are two methods: either by a HW protocol (Physical Layer Classification) or by using the LLDP protocol (Link Layer Discovery Protocol) for data exchange between the two devices PSE and PD.

The data and the power supply pass in the same Ethernet cable, so there is only one cable to be pulled per connected device. Therefore, compared to an external power supply, the amount of connectors and adapters is reduced.

## Source (PSE) Configurations

### "PSE End Point" Configuration

The "End Point" configuration is used to connect a PoE power supply, usually a switch, to a PoE compatible PD remote dev.



### "PSE Midspan" Configuration

The "Midspan" configuration is used to connect PoE-incompatible power equipment to PoE-compatible PD equipment via a PoE-compatible adapter.



## IEEE 802.3BT Version

The work of the IEEE 802.3bt version (also called "4PPOE" or "POE++") takes into account this need to increase the supplied electrical power, as well as increasing the bandwidth to reach 10 Gbit/s. It incorporates advances in technology during this period (cf. the work on PoH).

Main evolutions of the IEEE 802.3bt version of the standard:

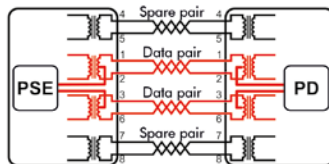
- Introduction of Type 3 and Type 4 for the PSE/PD duo to reach respectively 60 W and 90 W at the source (PSE)
- Using the 4 twisted pairs available in an Ethernet cable
- Addition of new power classes: classes 5 to 8 and improvement of the process of mutual identification between the PSE and PD
- Addition of the "Automatic class" function
- Increase of power supply (Extended power capability) if the length of the cable used is known
- Improvement of consumption in idle mode
- Increase of bandwidth up to 10 Gbits/s (10G-BASE-T cables)

The table below summarizes the different types of IEEE 802.3 standards:

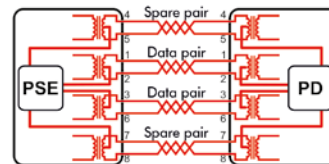
Type	Standard	PSE min. input power	PD guaranteed min. power	Cable category	Max. cable length	Number of pairs
Type 1	IEEE 802.3af	15.4 W	12.95 W	Cat 5e	100m	2 pairs
Type 2	IEEE 802.3at	30 W	25.5 W	Cat 5e	100m	2 pairs
Type 3	IEEE 802.3bt	60 W	51 W – 60 W*	Cat 5e and above	100m	2 pairs class 0-4 4 pairs class 0-4 4 pairs class 5-6
Type 4	IEEE 802.3bt	90 W	71 W – 90 W*	Cat 5e and above	100m	4 pairs class 7-8

\* Provides power at the destination of 60 W for Type 3 and 90 W for Type 4, if the cable length is known (<100m)

## The Different Options for Using the 4 Pairs



A first option is to use two pairs to power the PD and use the 4 pairs to convey the data.



A second option is to use the 4 pairs to both feed the PD and convey the data.



# Intelligent Power & Active Communications



PART NO	DESCRIPTION
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## Network Switches

### SOHO Desktop Ethernet Switches

SW504	5 Port 10/100 Desktop Switch
SW804	8 Port 10/100 Desktop Switch
GSD503	5 Port 10/100/1000Mbps Giga Switch - External Power
GSD504	5 Port 10/100/1000 Plastic Desk Switch
GSD-603F	5 Port 10/100/1000 +1 SFP Gigabit Switch
GSD803	8 Port 10/100/1000Mbps Giga Switch - External Power
GSD804	8 Port 10/100/1000 Plastic Desk Switch

### Rack Mount Ethernet Switch

GSW1601	16 Port 10/100/1000 Mbps Gigabit Ethernet Switch 19inch
GSW2401	24 Port 10/100/1000 Mbps Gigabit Ethernet Switch 19inch



PART NO	DESCRIPTION
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## Power Over Ethernet (PoE) Splitters and Extenders

POE152	PoE Injector IEEE802.3af End-Span for Gigabit Ethernet
POE161	High Power PoE Injector IEEE802.3at - 30w
POE162S	High Power PoE Splitter IEEE802.3at (12/24v)
POE163	High Power PoE + IEEE802.3at Giga Ethernet Injector - 30w (Pack)
POE-171A-95	Single-Port Multi-Gigabit 802.3bt PoE++ Injector (95W)
POE-175-95	Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector
POE173	Ultra PoE Injector 10/100/1000Mbps 60w Internal Power
POE-E201	PoE Gigabit Ethernet Extender Repeater IEEE 802.3at
POE1200G	12 Port PoE Injector Gigabit Ethernet 19inch 802.3af (200w)
POE2400G	24 Port PoE Injector Gigabit Ethernet 19inch 802.3af (400w)
POETESTER+ ELA100	IEEE 802.3af/at/bt Power over Ethernet Tester Ethernet Lighting Arrestor



## PoE Solutions

### Power Over Ethernet (PoE) Switches

GSD504UP	2 Port 10/100/1000T 802.3bt PoE Switch plus 1 Port Giga (120w)
GSD604HP	4 Port 10/100/1000T 802.3at PoE + 2 Port Desktop Switch
GSD804P	8 Port 10/100/1000 Switch with 4 Port 802.3af PoE Injector (55w)
GSD908HP	8 Port 10/100/1000 802.3at PoE Switch plus 1 Port Giga (120w)
GSD-1008HP	8 Port 10/100/1000 Switch 8 Port 802.3at 120w PoE + 2p 10/100/1000
GSD1121XP	8 Port 10/100/1000T 802.3at PoE + 2 Port 2.5G + 1 Port 10G SFP+ Ethernet Switch
GS-4210-8P2S	8 Port 100/1000X Managed 802.3at PoE Plus + 2 SFP Gigabit Switch
GSD2022P	16 Port 10/100/1000T 802.3at PoE 2 Port + 2 Port Desk Switch
GSW1820HP	16 Port 10/100/100T 802.3at PoE + 2 Port 1000X SFP Gigabit Ethernet Switch
GSW2620HP	24 Port 10/100/1000T 802.3at PoE + 2 Port 1000X SFP Gigabit Ethernet Switch
GS-5220-48PL4XR	48 Port 10/100/1000T 802.3at PoE + 4 Port 10G SFP+ Managed Switch

### Power Over Ethernet (PoE) Injector Hubs

HPOE460	4 Port High Power PoE Injector Hub 802.3at 30w Desktop
HPOE1200G	12 Port PoE Injector Gigabit Ethernet 19inch 802.3at (350w)
HPOE2400G	24 Port PoE Injector Gigabit Ethernet 19inch 802.3at (500w)
UPOE-800G	8 Port Ultra PoE Injector Gigabit 19inch 60w Managed (400w)
UPOE-1600G	16 Port Ultra PoE Injector Gigabit 19inch 60w Managed (600w)
UPOE-2400G	24 Port Ultra PoE Injector Gigabit 19inch 60w Managed (800w)
UPOE-400	4 Port Multi-Gigabit 802.3bt PoE++ Injector Hub (160W)



## Industrial Ethernet Switches

IGS-10020MT	IP30 Industrial Managed Gigabit 8 Port + 2 SFP Ethernet Switch
IGS-5225-4T2S	IP30 Industrial Managed Gigabit 4 Port + 2 SFP Ethernet Switch
IGS-801M	IP30 Industrial Managed Gigabit 8 Port Slim Ethernet Switch
ICS-115A	RS232/422/485 Serial Device Server with 1 Port 100BASE-FX SFP
ISW-501T	IP30 Industrial 5 Port Fast Slim Ethernet Switch
ISW-800T	IP30 Industrial 8 Port Fast Compact Ethernet Switch
ISW-801T	IP30 Industrial 8 Port Fast Slim Ethernet Switch
ISW-621TF	IP30 Industrial 4 Port + 2 SFP Fast Ethernet Switch
IGS-620TF	IP30 Industrial Gigabit 4 Port + 2 SFP Ethernet Switch
IGS-801T	IP30 Industrial Gigabit 8 Port Slim Ethernet Switch
IGS-501T	IP30 Industrial Gigabit 5 Port Slim Ethernet Switch
IGS-500T	IP30 Industrial Gigabit 5 Port Compact Ethernet Switch
IGS-4215-8T2S	IP30 Industrial Managed 8 Port + 2 SFP Gigabit Managed Switch

### Industrial Ethernet PoE Switches

IGS-10020HPT	IP30 Industrial Managed Gigabit 8 Port + 2 SFP PoE + Ethernet Switch
IGS-4215-4P4T2S	IP30 Industrial Managed Gigabit 8 Port + 2 SFP PoE Switch
IGS-5225-4UP1T2S	IP30 Industrial Managed Gigabit 4 Port + 2 SFP PoE + Ethernet Switch
IGS-504PT	IP30 Compact 4 Port 802.3at PoE Plus + 1 Port Gigabit Switch
IGS-624HPT	IP30 Industrial Gigabit 4 Port + 2 SFP PoE + Ethernet Switch



PART NO	DESCRIPTION
---------	-------------

IGS-5225-4P2S	IP40 Industrial Managed Gigabit 4 Port + 2 SFP PoE + Ethernet Switch
ISW-504PT	IP40 Industrial 5 Port PoE + Fast Ethernet Switch
ISW-514PTF	IP40 Industrial 4 Port + 1 SFP PoE + Fast Ethernet Switch

### Industrial Media Converters

IGT-815AT	Industrial Compact 100/1000BASE-X to 10/100/1000BASE-T Media Converter
IGTP-802T	1000BASE-SX to 10/100/1000BASE-T 802.3at PoE+ Industrial Media Converter (SC,MM)
IGTP-802TS	1000BASE-LX to 10/100/1000BASE-T 802.3at PoE+ Industrial Media Converter (SC,SM)
IPOE-175	Industrial IP67 1 Port 60W 802.3bt PoE++ Injector (-40~75 degrees C)

### Industrial Ethernet Media Converters

IGT-805AT	IP30 Industrial Gigabit SFP Media Converter
IGTP-805AT	IP30 Industrial Gigabit PoE + SFP Media Converter
IFT-802T	IP30 Industrial Fast Ethernet SC MM Slim Media Converter
IFT-805AT	IP30 Industrial Fast Ethernet SFP Slim Media Converter
IGT-1205AT	IP30 Industrial Gigabit 1 Port + 2 SFP Media Converter

## Media Converters

### Fibre Optic Media Converters

FT801UK	Media Converter 10/100 - 100FX (ST) LFP MM
FT802UK	Media Converter 10/100 - 100FX (SC) LFP MM
FT802S15	Media Converter 10/100 - 100FX (SC) LFP SM 15km
GT-1205A	Media Converter Gigabit 10/100/1000 - 2 Port Giga SFP Redundant
GT802SUK	Media Converter Gigabit 10/100/1000 - 1000LX SM (SC)
GT802UK	Media Converter Gigabit 10/100/1000 - 1000SX MM (SC)
GT805A	Media Converter Gigabit 10/100/1000 - 1000SX GBIC Converter
GT905A	Media Converter Gigabit 10/100/1000 - 1000SX GBIC Managed
GTP805A	Media Converter Gigabit PoE (802.3af) 10/100/1000 - GBIC (SFP)
MC700	Media Converter Chassis 7 Slot
MC-RPS130	130w Redundant Power Supply for MC-1610MR/48
MC1500	Media Converter Chassis 19inch 15 Slot
MC1500R	Media Converter Chassis 19inch 15 Slot (AC Power)
MC15RPS130	130w Redundant Power Supply for MC1500R
54-9075	European Power Adaptor for (FT/GT) M/Con (5v-2.5Amp)

## Industrial Ethernet

All-Inclusive Integrated Industrial Ethernet Solution

Contact the Cablenet sales team for more information.

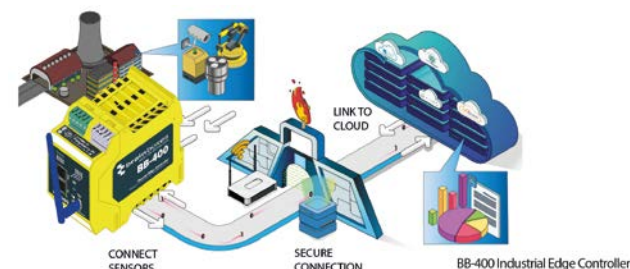
PART NO	DESCRIPTION
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### SFPs - Planet GBIC Modules

MGBLX	Planet SFP - Port 1000BASE-LX Mini-GBIC Module - 10km
MGBSX	Planet SFP - Port 1000BASE-SX Mini-GBIC Module - 550m
MGBSX2	Planet SFP - Port 1000BASE-SX Mini-GBIC Module 2km



Products that work straight out of the box to connect your serial, digital, wireless & relay devices to a network.



### Brainboxes

BB-400	Brainboxes Neuron Industrial Edge Controller 8 x I/O & Serial Port
SW-005	Brainboxes Industrial Unmanaged Ethernet Switch 5 Port Wall Mountable

# Intelligent Power & Active Communications



## The Evolvement of Optical Transceiver

The unceasing need for network speed and efficiency makes data centre a more demanding place, and optical transceivers also evolve to satisfy the need for higher density and larger capacity. The broad transceiver portfolio usually consists of the following types, customers could choose the right one based on the specific usage environments and speed needs.

<b>SFP:</b>	A wide range of protocols and rates (Fast Ethernet, Gigabit Ethernet, Fibre Channel, Sonet/SDH) which operate in either commercial or extended temperature environments.
<b>SFP+:</b>	Designed for 10G Ethernet and 10G Fibre Channels.
<b>XFP:</b>	Supporting a variety of 10Gbps protocols (Ethernet, Sonet/SDH, Fibre Channel).
<b>X2:</b>	10G Ethernet standard over a variety of distances.
<b>SFP28:</b>	Designed for 25G Ethernet.
<b>QSFP+:</b>	40 Gbps interfaces support 40G Ethernet and OTN standards over multimode or single mode fibre.
<b>QSFP28:</b>	100 Gbps interfaces support 100G Ethernet and OTN standards over multimode or single mode fibre



### PART NO DESCRIPTION

#### Cablenet GBIC Modules

##### Networking Transceivers

###### 100G

NW-QF28-1C-S4-X850-0-1	100G Multimode SR4 (850nm) MTP/MPO 100m QSFP28 Module
NW-QF28-1C-L4-X131-10X	100G Singlemode LR4 (1310nm) Duplex LC 10km QSFP28 Module

###### 40G

NW-QSFP-40-S4-X850-0-1	40G Multimode SR4 (850nm) MTP/MPO 100m QSFP+ Module
NW-QSFP-40-LR-X131-10X	40G Singlemode LR4 (1310nm) Duplex LC 10km QSFP+ Module

###### 25G

NW-SF28-25-X850-0-1D	25G Multimode SR (850nm) Duplex LC 100m SFP28 Module
NW-SF28-25-X131-10XD	25G Singlemode LR (1310nm) Duplex LC 10km SFP28 Module

###### 10G

NW-SFPX-08-10-X850-0-3D	10G Multimode SR (850nm) Duplex LC 300m SFP+ Module
NW-SFPX-08-10-X131-10XD	10G Singlemode LR (1310nm) Duplex LC 10km SFP+ Module
NW-SFPX-08-10-X155-40XD	10G Singlemode ER (1550nm) Duplex LC 40km SFP+ Module
NW-SFPX-08-10-XXXT-0-03	10G (10GBase-T) Copper RJ45 30m SFP+ Module



### PART NO

### DESCRIPTION

#### Gigabit

NW-SFP0-01-25-X850-0-5D	Gigabit Multimode SX (850nm) Duplex LC 550m SFP Module
NW-SFP0-01-25-X131-10XD	Gigabit Singlemode LX (1310nm) Duplex LC 10km SFP Module
NW-SFP0-01-25-X131-40XD	Gigabit Singlemode EX (1310nm) Duplex LC 40km SFP Module
NW-SFP0-01-25-XXXT-0-1	Gigabit (1000Base-T) Copper RJ45 100m SFP Module

*Please specify Vendor name\**

*\* All our transceivers can be encoded to ensure compatibility with your equipment vendor.*

## Networking Cables

### Direct Attach Cables

#### 100G

NWP-100G-DATAC-0-5	100G QSFP28 Direct Attach Cable - 0.5m
NWP-100G-DATAC-01	100G QSFP28 Direct Attach Cable - 1m
NWP-100G-DATAC-02	100G QSFP28 Direct Attach Cable - 2m
NWP-100G-DATAC-03	100G QSFP28 Direct Attach Cable - 3m
NWP-100G-DATAC-05	100G QSFP28 Direct Attach Cable - 5m

#### 40G

NWP-40G-DATAC-0-5	40G QSFP+ Direct Attach Cable 0.5m
NWP-40G-DATAC-01	40G QSFP+ Direct Attach Cable 1m
NWP-40G-DATAC-02	40G QSFP+ Direct Attach Cable 2m
NWP-40G-DATAC-03	40G QSFP+ Direct Attach Cable 3m
NWP-40G-DATAC-05	40G QSFP+ Direct Attach Cable 5m

#### 25G

NWP-25G-DATAC-01-F	25G SFP28 Direct Attach Cable 1m
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#### 10G

NWP-10G-DATAC-01	10G SFP+ Direct Attach Cable 1m
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*Please specify Vendor name\*\* Other lengths available*

### Active Optical Cables

NWP-QF-100G-QF-AOC-XX	100G QSFP28 Active Optical Cable - XX = length, 1m-100m
NWP-QF-40G-QF-AOC-XX	40G QSFP+ Active Optical Cable - XX = length, 1m-100m
NWP-SF-25G-SF-AOC-XX	25G SFP28 Active Optical Cable - XX = length, 1m-100m
NWP-SF-10G-SF-AOC-XX	10G SFP+ Active Optical Cable - XX = length, 1m-100m

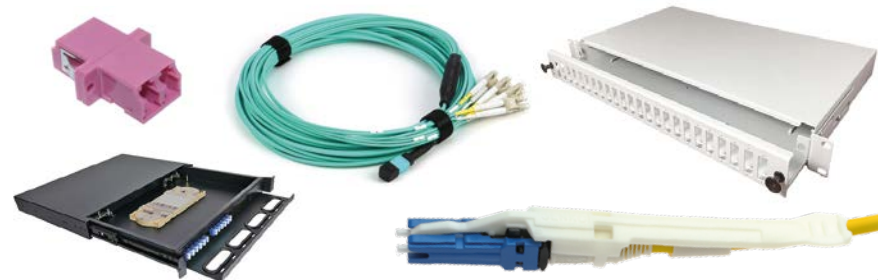
*\*\* All our attach cables can be encoded to ensure compatibility with your equipment vendor.  
Attach cable products can be dual coded to support mixed vendor environments upon request.*



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## Fibre Types

Singlemode cables can be found in OS2 type. Multimode cables can be found in OM1, OM2, OM3, OM4 and OM5 types. Each type has different properties.

### OS2 Singlemode Fibre

Unless requested otherwise all singlemode fibre cables they will conform to ITU-T G652.D. This standard describes the geometrical, mechanical and transmission attributes of the cable and ensures that the cable can be used in the operating wavelengths around 1310nm and 1550nm.



Also, in higher fibre density environments fibre with tighter cable routing and reduced bend radius there is another standard G.657.A1 and or G.657.A2. Cables meeting either of these standards are often referred to as Bend Insensitive (BI) or Reduce Bend Sensitive (RBS) fibre cable. All G.652.D, G.657.A1 and G.657.A2 all have the same physical size with internal and external core diameters of 9µm and 125µm, respectively, are completely compatible with each other and G.652 and G.657 are compatible with all standard connectors such as LC, SC, MU, and E2000 in UPC or APC polishes.

### OM5 Multimode Fibre

OM5 New Standard developed when you are using Shortwave Wavelength Division Multiplexing (SWDM) applications. For 10 Gigabit and 100 Gigabit Ethernet it only transmits at the same distance as the low cost OM3 and OM4 Fibre. It has a suggested jacket colour of Lime Green. OM5 fibre, also known as WBMMF (wideband multimode fibre) at a minimum speed of 28Gbps per channel through the 850-953 nm window.



### OM4 Multimode Fibre

It is a further improvement to OM3, uses a 50µm core and was developed specifically for VCSEL laser transmission and allows 10 Gigabit Ethernet up to 550m compared to 300m with OM3 and 100 Gigabit Ethernet at lengths up to 150 meters. Often supplied in a jacket colour of Erika Violet to differentiate it from OM3. It is completely backwards compatible with OM3 fibre.



### OM3 Multimode Fibre

Its core size is 50µm, but the cable is optimized for laser based equipment that uses fewer modes of light. As a result of this optimization, it is capable of running 10 Gigabit Ethernet at lengths up to 300 meters. Since its inception, production techniques have improved the overall capabilities of OM3 to enable its use with 40 Gigabit and 100 Gigabit Ethernet up to 100 meters. It has a suggested jacket colour of aqua.



## Ethernet Cabling Guidelines

	Multimode Fibre OM3	Multimode Fibre OM4	Multimode Fibre OM5	Singlemode Fibre OS2 1310nm	Singlemode Fibre OS2 1550nm
10BASE-T (10Mb/s)	2000m	2000m		N/S	N/S
100BASE-T (100Mb/s)	2000m	2000m		N/S	N/S
1000BASE-T (GbE)	550m	1000m		5000m	N/S
10GBASE-T (10GbE)	300m	550m	400m	10000m	40000m
40GBASE-T (40GbE)	100m	100m	150m	10000m	40000m
100GBASE-T (100GbE)	100m	150m	150m	10000m	40000m

N/S = Not Specified

IEEE Standard	Application	Fibre Type	Baud Rate (GBd)	Transmission Type	# of λ's	# of Fibres	Distance (metres)	Connector
802.3cm	400GBASE-SR8	Multimode	50	Parallel	NA	16	70 (OM3) 100 (OM4)	MPO-16/MPO-24
802.3cm	400GBASE-SR4.2	Multimode	50	Parallel/SWDM	2	8	70 (OM3) 100 (OM4) 150 (OM5)	MPO-8/MPO-12
802.3bs	400GBASE-DR4	Singlemode	100	Parallel	NA	8	500	MPO-8/MPO-12
802.3bs	400GBASE-FR8	Singlemode	50	WDM	8	2	2,000	Duplex
802.3cu	400GBASE-FR4	Singlemode	100	WDM	4	2	2,000	Duplex
802.3cu	400GBASE-LR4-6	Singlemode	100	WDM	4	2	6,000	Duplex
802.3bs	400GBASE-LR8	Singlemode	50	WDM	8	2	10,000	Duplex

Current IEEE 400 Gb/s Ethernet standards for the data center using QSFP-DD transceivers.





## Connectors

### Fibre Optic Connectors

Unlike with copper cabling where one style of connector, the RJ45, dominates, with fibre there are a number of different connectors that can be used.

#### LC Connectors

The LC connector is sometimes referred to as a Small Form Factor (SFF) connector as it has much smaller dimensions than the SC connector. In fact it is possible to get twice as many fibres terminated on LC connectors in the space used by SC connectors. LC connectors have a simple latch, similar to that used on a RJ45 plug, making it familiar in use for network technicians. This has become the connector of choice in most new network fibre installations.



#### SC Connectors

The SC connector has a square format and has a push/pull latching mechanism. The image shows two SC connectors that have been joined using a special clip to create a SC Duplex connector with the A and B legs identified in the moulding of the clip.



#### ST Connectors

The ST connector has a round barrel and uses a bayonet fixing mechanism to secure it to the mating connector. It is not recommended for new installations and is only seen in legacy fibre deployments.

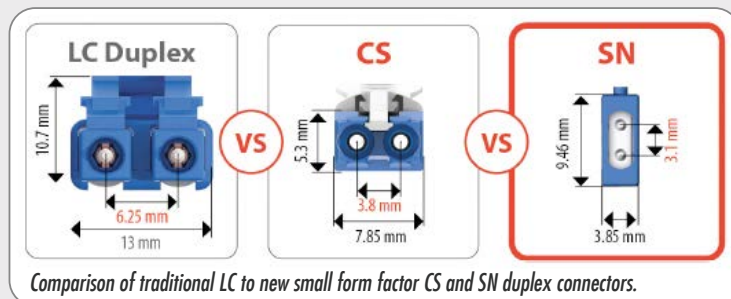


#### MPO/MTP® Connectors

The MPO/MTP® connector has larger dimensions than the LC Duplex connector but can accommodate up to 24 fibres in a single ferrule, making it ideal for high density installation. This style of connector is also finding favour in multi-channel fibre applications such as 40G and 100G Ethernet. However, the high precision nature of the connector means that it is not suitable for field termination.



#### LC Duplex, CS, SN, Comparison



## Patch Cable Types Explained

### Single Mode OS2 Patch Cable

OS2 Patch Cables are made to provide bandwidth used in long distance transmission. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Yellow. Each fibre cable is tested for insertion loss. Individual test results are provided.

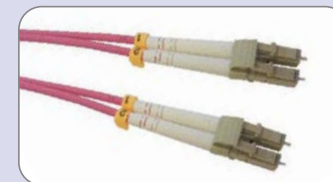


### 10 Gigabit 50µm OM3 and OM4 Patch Cable

OM3 Patch Cables are made to provide bandwidth that will support transmission above 10 Gigabits and can be used for applications up to 300 metres. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Aqua Blue. Each fibre cable is tested for insertion loss. Individual test results are provided.

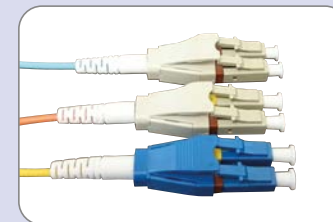


OM4 Patch Cables are made to provide bandwidth that will support transmission above 10 Gigabits and can be used for applications up to 550 metres. They are 2.8mm Duplex Design with white strain relief boots and our standard LSOH jacket colour is Aqua Blue or Erika Violet. Each fibre cable is tested for insertion loss. Individual test results are provided.



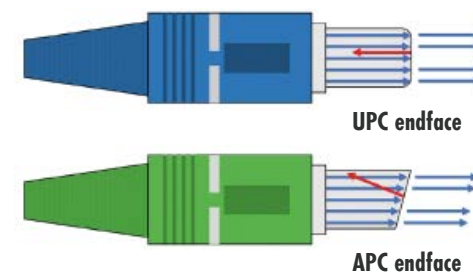
### Uniboot LC Reverse Polarity Patch Cable

We can offer Uniboot LC Single and Multimode fibre patch cords offer a compact design and with a few simple steps the connector polarity can be reversed without any connector re-termination. Single mode OS2 has a Yellow LSOH jacket and Multimode OM3 and OM4 fibre with an Aqua Blue Jacket. Each fibre cable is tested for insertion loss. Individual test results are provided.



## What's the Difference Between UPC Endface & APC Endface?

An APC connector endface features an 8-degree angle to direct reflected light into the cladding where it does not propagate back to the transmitter, improving system performance for 400 Gb/s PAM4 applications.





## MPO/MTP

MPO/MTP (multi-fibre termination push-on) terminated cables are widely used in high-density data centres. The terms MPO and MTP are often used; however, MPO is the recognised fibre connector type, while MTP is a registered trademark of an MPO connector manufactured by US Conec. All MTPs are MPOs, but not all MPOs are MTPs. To the naked eye, there is little difference between the two connectors, and in cabling and transceiver interfaces, they are compatible with each other.

*Note: MTP® is a registered trademark of US Conec Ltd. This is the term US Conec uses to describe their connectors. American Conec MTP products are fully compliant with MPO standards. Therefore, the MTP connector is a type of MPO connector.*

## MPO/MTP Design

MPO/MTP connectors are typically available with 8, 12, or 24 fibres, with 32, 48, 60, or 72 fibres available. However, these higher fibre counts are generally reserved for speciality super high-density multi-fibre arrays in large-scale optical switches.

MPO/MTP connectors are either male (with alignment pins) or female (without alignment pins). To join two MPO/MTP connectors together through an adapter, one connector must have alignment pins, and the other must not. The role of the alignment pins is to ensure that the fibres align perfectly, ensuring successful mating.

MPO/MTP connectors are often colour-coded to help contractors distinguish between the different fibre types and polish specifications for single mode. MPO/MTP connectors are made for both single-mode and multi-mode multi-fibre cables. The cable jacket is yellow in single-mode (OS2 applications), per Telecommunications Industry Association's (TIA) specification. The connector colour will vary depending on the connector type. Ultra-Physical Contact (UPC) connectors will also be yellow, while Angled Physical Contact (APC) connectors are green. With multi-mode OM3/OM4, both MPO/MTP connectors and cable jackets will be aqua, per TIA specifications.

## MPO/MTP Polarity

Achieving polarity is another challenge with MPO/MTPs. Polarity defines the direction of the light path or flow and is called the A-B-Cs of fibre polarity. This is more complex with multi-fibre MPO/MTP cables and connectors. Industry-standard TIA-568.3-D names three different polarity methods for MPO/MTPs: Method A, Method B, and Method C. Each method uses different types of MPO/MTP cables.

When examining a typical 12 fibre configuration, Method A uses a key-up connector on one end and a key-down connector on the other end so that the fibre located in Position 1 arrives at Position 1 at the other end. Method B uses key-up connectors on both ends to achieve the transceiver-receiver flip so that the fibre located in Position 1 arrives at Position 12 at the opposite end, the fibre located in Position 2 arrives at Position 11 at the opposite end, and so on.

Method C uses a key up connector on one end and a key down on the other end like Method A, but the flip happens within the cable itself where each pair of fibres is flipped so that the fibre in Position 1 arrives at Position 2 at the opposite end, and the fibre in Position 2 arrives at Position 1.

Whichever method is chosen, polarity needs to be consistent.

## MPO/MTP Connectors

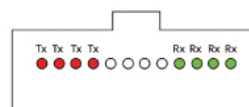
Until recently, the primary method of connecting switches and servers within the data centre involved cabling organised around 12 or 24 fibres, typically using MPO/MTP connectors. The introduction of octal technology (eight switch lanes per switch port) enables data centres to match the increased number of ASIC I/Os (currently 256 per switch ASIC) with optical ports. Fibre cable manufacturers quickly reacted to this new dilemma and started to develop "Base-8" solutions. These new systems migrated the base unit of fibre bundles from 12 fibres to 8 fibres, and MPO/MTP cabling systems started to emerge based on 8 fibre MPO/MTP and trunk cables in multiples of 8 fibres.

New Base-8 and 16-fibre configurations support eight server connections using eight fibres to transmit and eight fibres to receive. MPO/MTP 16-fibre connectors are keyed differently to prevent connection with the 12-fibre MPO/MTP connectors.

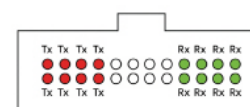
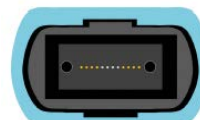
The next speeds have now emerged as 400G. There will likely be minimal adoption of multi-mode fibre cabling, which will utilise an SR8 solution — 8 lanes of 50Gb/s and require a 16 fibre MPO/MTP connector. Base-8 infrastructure can support this 16-fibre solution by combining two Base-8 MPO/MTP connectors per link.

From a connectivity perspective, existing 8-fiber and 12-fiber MPO/MTP (Base-8/12) connectors will support 400 Gb/s 8-fibre applications, including 400GBASE-SR4.2 and 400GBASE-DR4. However, 16-fibre applications like 400GBASE-SR8 are now driving the need for 16-fiber MPO/MTP (Base-16) connectors, which have a different form factor from the Base-8/12 with an offset key.

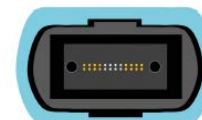
### MPO/MTP CONNECTORS IN THE CHANNEL



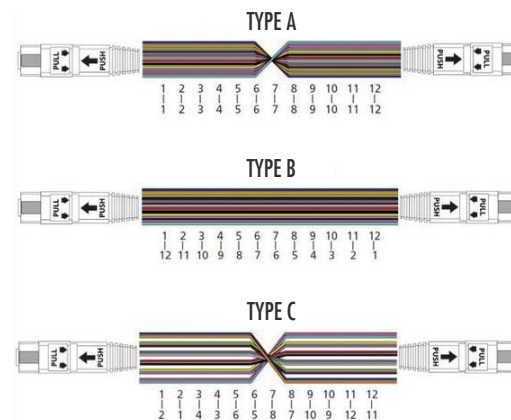
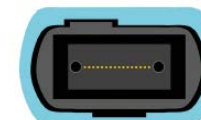
Base-8/12 | 12-fibre MPO/MTP



Base-24 | 24-fibre MPO/MTP



Base-16 | 16-fibre MPO/MTP





## What Is Base-8 and 16 MPO/MTP Cabling?

As we forward through the evolution of Ethernet speeds for enterprise applications, with the migration of Ethernet speeds from 10Gb/s to 40Gb/s, the IEEE802.3 standard launched the next Ethernet speed of 40Gb/s as a parallel transmission of four lanes of 10Gb/s (40GBASE-SR4), meaning that a single 40Gb/s fibre port on a switch would transmit and receive four separate lanes of 10Gb/s across 4 pairs of fibres. The standard transmission protocol had shifted from a legacy 2-fibre duplex system (one transmit and one receive) to an 8-fibre system (four transmits and four receives), and Base-8 was born.

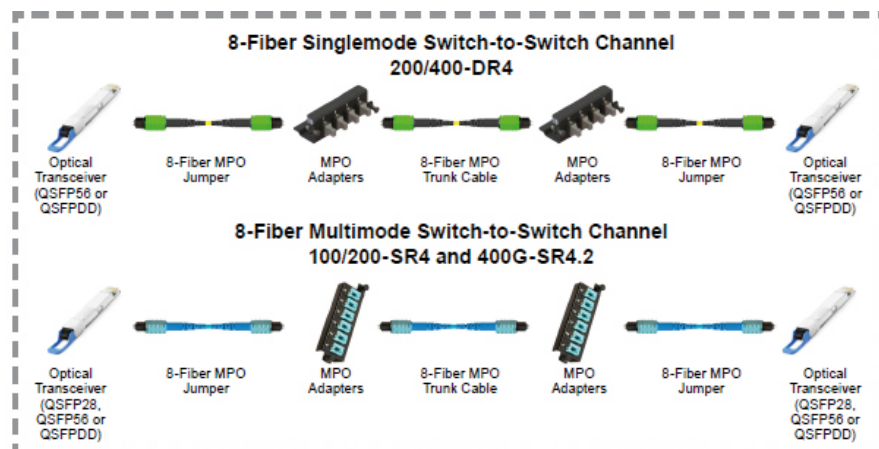
These new 40Gb/s transceivers, called QSFP+ (Quad Small Form-factor Pluggable), had an MPO/MTP as the connector interface, utilising a standard Base-12 fibre connector but leaving the four middle connectors dark. Fibre cable manufacturers quickly reacted to this new dilemma and developed "Base-8" solutions. These new systems migrated the base unit of fibre bundles from 12 fibres to 8 fibres, and MPO/MTP cabling systems started to emerge based on 8-fibre MPO/MTP and trunk cables in multiples of 8 fibres.

The 100GBASE-SR4 standard utilised 4 lanes of 25Gb/s across 4 pairs of fibres, a further migration to 100Gb/s using Base-8 fibre cables and further strengthening the case for Base-8 connections.

The next speeds have now emerged as 400G. There will likely be minimal adoption on multi-mode fibre cabling, utilising an SR8 solution – 8 lanes of 50Gb/s and requiring a 16 fibre MPO/MTP connector. Base-8 infrastructure can support this 16-fibre solution by combining two Base-8 MPO/MTP connectors per link. The vast majority of 400G systems will run over single-mode fibre with either multiple wavelengths across a duplex fibre connection or four lanes of 100G transmitted across four pairs of fibres – again utilising Base-8 cabling.

From a connectivity perspective, existing 8-fibre and 12-fibre MPO/MTP (Base-8/12) connectors will support 400 Gb/s 8-fibre applications, including 400GBASE-SR4.2 and 400GBASE-DR4. However, 16-fibre applications like 400GBASE-SR8 are now driving the need for 16-fibre MPO/MTP (Base-16) connectors, which have a different form factor from the Base-8/12 with an offset key. While 24-fibre MPO/MTP connectors can be used for 16-fibre applications, their larger form factor and eight unused fibres make the Base-16 a more cost-effective solution.

While 100 Gb/s rate will enable 400 Gb/s over eight fibres supported via Base-8/12 connectors, future 800 Gb/s applications will sustain the need for Base-16 connectors. The IEC is currently working on specifications for Base-16



connectivity, and the IEEE Beyond 400 Gb/s Ethernet Study Group is looking to standardise on the Base-16 for future 800GBASE-SR8 and 800GBASE-DR8 applications.

The variety of connector technology options provides more ways to break out and distribute the additional capacity that octal modules offer. Connectors include parallel 8-, 12-, 16- and 24-fiber multi-push on (MPO/MTP) and duplex fibre LC, SN, MDC and CS connectors.

## What Is Base-12 and 24 MPO/MTP Cabling?

Since manufacturers first produced fibre-optic cables, they came in multiples of twelve fibres. Cable fibre counts were commonly 12, 24, 48, 96, and 144, leading to systems around fibre optic cables also based on 12 fibres. For example, patch panels are typically based on multiples of 12, 24, 48, and 144, and network switches are generally based on multiples of 24.

The first MPO/MTP connector was with 12 fibres, and when in 1996, IBM introduced the first fibre cabling system based on 36, 72 and 144 fibre trunks terminated with 12 fibre MPO/MTP connectors. This system allowed the flexibility of being able to connect different "harness" types of assemblies to an MPO/MTP connector which fanned out to the duplex connection required by the equipment at the end of the cable, securely set on the magic number of 12!

As we forward through the evolution of Ethernet speeds for enterprise applications, with the migration of Ethernet speeds from 10Gb/s to 40Gb/s, there is a fundamental shift in transmission modes and the basis of fibre systems. The IEEE802.3 standard launched the next Ethernet speed of 40Gb/s as a parallel transmission of four lanes of 10Gb/s (40GBASE-SR4), meaning that a single 40Gb/s fibre port on a switch would transmit and receive four distinct lanes of 10Gb/s across 4 pairs of fibres. The standard transmission protocol had shifted from a legacy 2 fibre duplex system (one transmit and one receive) to an 8-fibre system (four transmit and four receive), and Base-8 was born.

A Base-12 MPO/MTP cabling uses fibre optical links based on increments of 12 fibres and 12-fibre MPO/MTP fibre optic connectors. Base-12 and or Base-24 are mainstream in MPO/MTP cabling systems.

A Base-24 MPO/MTP trunk can be used in a channel with both parallel transceivers at the uplink and duplex transceivers at the downlink. This configuration could be used to breakout 100 Gb/s to 25 Gb/s or 400 Gb/s to 100Gb/s in the future, without making any changes to the cabling system. The graphic below shows one channel breakout, three times the number of links that can be supported with the same cassettes and Base-24 trunk when fully populated. Alternate configurations are possible with other cabling schemes. Alternate configurations are possible with Base-8 or Base-12, using additional trunk cables to support an equivalent number of connections.

### 8-Fibre Channel Breakout with a Base-24 MPO Trunk





# DATA CENTRE PRODUCTS TECH TERMS

## Fibre Utilisation

Base-12 is more advantageous in high-density network cabling because it has more cores and higher density. However, Base-8 MPO/MTP cabling has better fibre utilisation than Base-12 MPO/MTP cabling. Although the Base-12 MPO/MTP cabling is still the most common choice for most data centre operators, there are still no standardised transceivers using all 12 fibres. Many popular transceivers (SR4 transceivers, for example), only use an 8-fibre interface. Base-8 MPO/MTP links allow customers to directly connect fibres to those transceivers without any fibre waste. If we use a 12-fibre connector into a transceiver which only requires eight fibres, which means that four fibres are unused. You may consider using a conversion cable to convert the Base-12 cabling to Base-8 cabling (two Base-12 to three Base-8, for example) to make use of all fibres. However, it will cause additional insertion loss, reducing the cable performance.

In addition, when using MPO/MTP to LC duplex breakout harnesses to connect to switch line cards, the Base-8 harnesses easily route to all common port count line cards, as all common line cards contain a number of ports wholly divisible by the number four (since a Base-8 harness provides four LC duplex connections). If you use Base-12 MPO/MTP to LC duplex breakout harnesses, you will get 6 LC duplex connections. But these harness cables can't fully connect to line cards with 16 or 32 ports since 16 and 32 are not wholly divisible by 6.

Therefore, for the sake of fibre utilisation, Base-8 MPO/MTP cabling is a better choice. Of course, if you don't mind the fibre wasting, Base-12 MPO/MTP cabling could also be selected.

## For Future Cabling System

Base-12 and Base-8 MPO/MTP cabling can be seamlessly converted to Base-2 cabling in relatively smaller networks like 10G connections. Under such circumstances, either is feasible. However, for more extensive networks like 40G, 100G or even 400G connection, a Base-8 solution will gain more widespread market acceptance since a more significant number of 40G, and 100G circuits are deployed utilising eight-fibre transceivers. So do 400G direct connections, which use 400G QSFP-DD transceivers and MPO/MTP-16 trunk cables. In addition, the 8-fibre cabling could work with the 24-fibre cabling seamlessly since a single 24-fibre MPO/MTP could break out to three 8-fibre MPO/MTPs. Customers deploying 10G data rates today, can still deploy the Base-8 system since upgrading to a 40G or 100G circuit will be much simpler and more cost-effective. Base-12 connectivity is not optimal for 8-fibre transceiver systems.

## Current and Upcoming IEEE Ethernet Standards for 25 to 400 GB/s Targeted for the Enterprise Data Centre Environment

IEEE Standard	Transceiver	Signaling	Lane Rate	# of Lanes	# of Fibres	Fibre Type	Technology	Distance in metres
802.3bm	100G-SR4	NRZ	25 GB/s	4	8	Multimode	Parallel Optics	70 (OM3) 100 (OM4)
802.3cd	100G-SR2	PAM4	50 GB/s	2	4	Multimode	Parallel Optics	70 (OM3) 100 (OM4)
802.3cd	100G-DR	PAM4	100 GB/s	1	2	Singlemode	Short-Reach Duplex	500
802.3db*	100G-SR	PAM4	100 GB/s	1	2	Multimode	Duplex	70 (OM3) 100 (OM4)
802.3db*	100G-VR	PAM4	100 GB/s	1	2	Multimode	Short-Reach Duplex	30 (OM3) 50 (OM4)
802.3cd	200G-SR4	PAM4	50 GB/s	4	8	Multimode	Parallel Optics	70 (OM3) 100 (OM4)
802.3bs	200G-DR4	PAM4	50 GB/s	4	8	Singlemode	Short-Reach Parallel Optics	500
802.3db*	200G-SR2	PAM4	100 GB/s	2	4	Multimode	Parallel Optics	70 (OM3) 100 (OM4)
802.3db*	200G-VR2	PAM4	100 GB/s	2	4	Multimode	Short-Reach Parallel Optics	30 (OM3) 50 (OM4)
802.3cm	400G-SR8	PAM4	50 GB/s	8	16	Multimode	Parallel Optics	70 (OM3) 100 (OM4)
802.3cm	400G-SR4.2	PAM4	50 GB/s	8	8	Multimode	SWDM & Parallel Optics	70 (OM3) 100 (OM4) 150 (OM5)**
802.3bs	400G-DR4	PAM4	100 GB/s	4	8	Singlemode	Short-Reach Parallel Optics	500
802.3db*	400G-SR4	PAM4	100 GB/s	4	8	Multimode	Parallel Optics	60 (OM3) 100 (OM4)
802.3db*	400G-VR4	PAM4	100 GB/s	4	8	Multimode	Short-Reach Parallel Optics	30 (OM3) 50 (OM4)

\* Currently in development.

\*\* OM5 multimode fibre offers specified bandwidth at the 953-nanometer wavelength for SWDM applications. OM4 and OM5 multimode fibre offers the same bandwidth at the 850-nanometer wavelength and therefore support the same distances for all applications except for the SWDM 400G-SR4.2 application.





## QSFP Form Factor Transceivers

To support higher signalling rates, pluggable optical transceivers have also evolved. Iterations of QSFP transceiver modules have advanced from QSFP+ at a 10 Gb/s rate, to QSFP28 at a 25 Gb/s rate, and to QSFP56 at a 50 Gb/s rate. Equipped with a four-lane electrical interface, these transceivers enable 40, 100, and 200 Gb/s transmission respectively. The latest QSFP-DD form factor features an eight-lane interface, hence the DD designation for double density over existing four-lane QSFP form factors.

With the ability to support a 50 Gb/s rate, QSFP-DD transceivers support up to 400 Gb/s transmission, while enabling backwards compatibility with previous QSFP transceiver modules to avoid full active equipment replacement. Another eight-lane pluggable transceiver is the OSFP that also supports a 50 Gb/s rate but is not compatible with the QSFP form factor. The development of 100 Gb/s PAM4 is underway within the IEEE industry standards association to support higher speeds, but a 100 Gb/s rate has already been achieved by leveraging QSFP-DD transceivers and converting eight lanes of 50 Gb/s to four lanes of 100 Gb/s.

Just as the adoption of the QSFP28 form factor drove the adoption of 100G by offering high density and lower power consumption, the jump to 400G and 800G is being enabled by new transceiver form factors. The current SFP, SFP+ or QSFP+ optics are sufficient to enable 200G link speeds. However, making the jump to 400G will require doubling the density of the transceivers.

QSFP-Double Density (QSFP-DD7) and octal (2 times a quad) small form factor pluggable (OSFP8) Multi Source Agreements (MSAs) enable networks to double the number of electrical I/O connections to the ASIC. This not only allows summing more I/Os to reach higher aggregate speeds, it also allows the total number of ASIC I/O connections to reach the network. The 1U switch form factor with 32 QSFP-DD ports matches 256 (32x8) ASIC I/Os. In this way, we can build high-speed links between switches (8x100 or 800G) but also have the ability to maintain the maximum number of connections.

The optical market for 400G is being driven by cost and performance as OEMs try to dial into the sweet spot of hyperscale and cloud scale data centers. In 2017, CFP8 became the first-generation 400G module form factor to be used in core routers and DWDM transport client interfaces. The CFP8 transceiver was the 400G form factor type specified by the CFP MSA. The module dimensions are slightly smaller than CFP2, while the optics support either CDAUI-16 (16x25G NRZ) or CDAUI-8 (8x50G PAM4) electrical I/O. As for bandwidth density, it respectively supports eight times and four times the bandwidth density of CFP and CFP2 transceiver.



Single Lane Transceiver			4-Lane Transceiver			8-Lane Transceiver
SFP+	SFP28	SFP56	QSFP+	QSFP28	QSFP56	QSFP-DD/OSFP
10G	25G	50G	40G	100G	200G	400G

Transceiver technology has advanced to support 50 Gb/s over a single lane, 200 Gb/s over four lanes, and 400 Gb/s over eight lanes.

## Predictions — OSFP vs QSFP-DD

With regards to OSFP versus QSFP-DD, it's too early to tell which way the industry will go right now, both form factors are supported by leading data center Ethernet switch vendors and both have large customer support. Perhaps the enterprise will prefer QSFP-DD as an enhancement to current QSFP-based optics. OSFP seems to be pushing the horizon with the introduction of OSFP-XD, extending the number of lanes to 16 with an eye toward 200G lane rates in the future. For speeds up to 100G, QSFP has become a go-to solution because of its size, power and cost advantage compared to duplex transceivers. QSFP-DD builds on this success and provides backwards compatibility which allows the use of QSFP transceivers in a switch with the new DD interface. Looking to the future, many believe that the 100G QSFP-DD footprint will be popular for years to come. OSFP technology may be favoured for DCI optical links or those specifically requiring higher power and more optical I/Os.

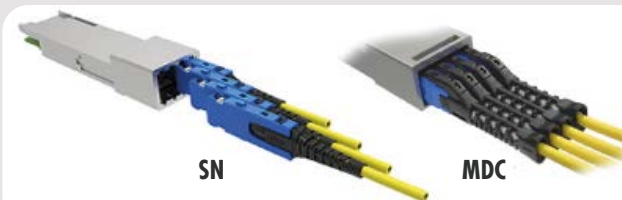
## SN & MDC Connectors

Four SN and MDC small form factor duplex connectors fit into a single QSFP-DD transceiver to support 4x100 Gb/s breakout application in leaf-spine switch-to-switch links.

*Note: MDC® is designed and manufactured by US Conec Ltd. The SN is designed and manufactured by Senko Advance Co Ltd (Japan).*

## Current Versus Future Network Configurations

	Enterprise Data Centers		Cloud Data Centers	
	SERVER	UPLINKS	SERVER	UPLINKS
Current Network Speeds	1G	10G	10G	40G
Future Network Speed Options	10G	40G	25G	100G
	OR		50G	200G
	25G	100G	100G	400G



# DataCentre Products



PART NO	DESCRIPTION
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## Fibre Optic Patch Panels

### Loaded OS2 Sliding Fibre Panel Black

XXFLPP24LC9	Loaded Fibre Patch Panel OS2 24 Fibre - 12 x LC Duplex
XXFLPP48LC9	Loaded Fibre Patch Panel OS2 48 Fibre - 24 x LC Duplex
XXFLPP96LC9	Loaded Fibre Patch Panel OS2 96 Fibre - 48 x LC Duplex

### Loaded OM3/4 Sliding Fibre Panel Black

XXFLPP12LC4	Loaded Fibre Patch Panel OM3/4 12 Fibre - 6 x LC Duplex
XXFLPP24LC4	Loaded Fibre Patch Panel OM3/4 24 Fibre - 12 x LC Duplex
XXFLPP48LC4	Loaded Fibre Patch Panel OM3/4 48 Fibre - 24 x LC Duplex
XXFLPP96LC3	Loaded Fibre Patch Panel OM3/4 96 Fibre - 48 x LC Duplex

### Loaded OM4 Sliding Fibre Panel Erika Violet

XXFLPP48LC4EV	Loaded Fibre Patch Panel OM4 48 Fibre - 24 x LC Duplex Erika Violet
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## Configurable Fibre Patch Panels

FPP-1000	1U Configurable Fibre Patch Panel (Accepts Cassettes & Adaptor Plates)
FPP-1002	2U Configurable Fibre Patch Panel (Accepts Cassettes & Adaptor Plates)

## MPO/MTP Fibre Cassettes

FPP-1010	12 Fibre OM3/4 (Aqua) LC MPO/MTP Fibre Cassette
FPP-1011	24 Fibre OM3/4 (Aqua) LC MPO/MTP Fibre Cassette
FPP-1012	12 Fibre OS2 (Blue) LC MPO/MTP Fibre Cassette
FPP-1013	24 Fibre OS2 (Blue) LC MPO/MTP Fibre Cassette

## 1U 12 Port Fibre Patch Panel

FPP-2000	1U 12Port (Max 144F) Fibre Patch Panel (Only Accepts FPP-2001 & FPP2002 Cassettes)
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## Fibre Panel Adaptor Plates

FPP-2001	12 Fibre MPO/MTP OM4 Cassette to OM4 (Aqua) LC Adaptors
FPP-2002	12 Fibre MPO/MTP OS2 Cassette to OS2 (Blue) LC Adaptors

Please visit our website [cablenet.co.uk](http://cablenet.co.uk) to see our full range of Fibre Panel Adaptor Plates



PART NO	DESCRIPTION
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## Couplers & Accessories

PPLCSM	LC Duplex SM Coupler Blue
PPSCSM	SC Duplex SM Coupler Blue
XXFALC3	OM3 LC Duplex Adaptor Aqua
XXFALC4	OM4 LC Duplex Adaptor Erika Violet
XXFASC4	OM4 SC Duplex Adaptor Erika Violet
XXFASC3	OM3 SC Duplex Adaptor Aqua
XXLCBLANK	LC Duplex Blanking Plug
PPBLANK	SC Duplex Blank
SP-3A-10	Splice Protector 60mm x 2.5mm Dia (PK 100)
PPKIT	Splice Management Kit

## MPO 96 Fibre 1U Patch Panel

1U-19 inch MPO/MTP High-Density rack-mount fibre patch panel. Normally supplied pre-loaded with 4 pre-connected cassette modules with the maximum capacity of 96 fibres.

## MPO 96 Fibre 1U Patch Panel BLACK

XXMPO9624LC4	96 Fibre Black Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors
XXMPO9624LC9	96 Fibre Black Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OS2 LC Adaptors
XXMPO9612LC4	96 Fibre Black Patch Panel 8 x 12 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors
XXMPO9612LC9	96 Fibre Black Patch Panel 8 x 12 Fibre MPO/MTP OM4 Cassette to OS2 LC Adaptors

# MPO CPR Breakout Cable | MPO CPR Trunk Cable | MTP CPR Breakout Cable

# DataCentre Products

## PART NO DESCRIPTION

### MPO CPR Breakout Cable

#### OM4 MPO CPR Breakout Cable AQUA

MPO-12B04LC1	1m OM4 MPO (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MPO-12B04LC2	2m OM4 MPO (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MPO-12B04LC3	3m OM4 MPO (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MPO-12B04LC5	5m OM4 MPO (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MPO-12B04LC10	10m OM4 MPO (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MPO-8B04LC5	5m OM4 BASE-8 MPO (f) to 4X LC(DX) Breakout Aqua CPR Cable Method B
MPO-16B04LC5	5m OM4 BASE-16 MPO (f) to 4X LC(DX) Breakout Aqua CPR Cable Method B
MPO-24B04LC5	5m OM4 BASE-24 MPO (f) to 12X LC(DX) Breakout Aqua CPR Cable Method B

#### OS2 MPO CPR Breakout Cable YELLOW

MPO-12B09LC1	1m OS2 MPO (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MPO-12B09LC2	2m OS2 MPO (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MPO-12B09LC3	3m OS2 MPO (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MPO-12B09LC5	5m OS2 MPO (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MPO-12B09LC10	10m OS2 MPO (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MPO-8B09LC5	5m OS2 BASE-8 MPO (f) to 4X LC(DX) Breakout Yellow CPR Cable Method B
MPO-16B09LC5	5m OS2 BASE-16 MPO (f) to 4X LC(DX) Breakout Yellow CPR Cable Method B
MPO-24B09LC5	5m OS2 BASE-24 MPO(f) to 12X LC(DX) Breakout Yellow CPR Cable Method B

### MPO CPR Trunk Cable

#### OM4 MPO CPR Trunk Cable AQUA

MPO-12TC4MPO1	1m OM4 MPO (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MPO-12TC4MPO2	2m OM4 MPO (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MPO-12TC4MPO3	3m OM4 MPO (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MPO-12TC4MPO5	5m OM4 MPO (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MPO-12TC4MPO10	10m OM4 MPO (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B

#### OM4 MPO CPR Trunk Cable ERIKA VIOLET

MPO-12TC4MPO1EV	1m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B
MPO-12TC4MPO2EV	2m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B
MPO-12TC4MPO3EV	3m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B
MPO-12TC4MPO5EV	5m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B
MPO-12TC4MPO10EV	10m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B
MPO-12TC4MPO15EV	15m OM4 BASE-12 MPO (F) to MPO (F) 12F Erika Violet Trunk CPR Cable Method B

## PART NO DESCRIPTION

### OM4 MPO CPR Trunk Cable AQUA

MPO-8TC4MPO5	5m OM4 BASE-8 MPO (f) to MPO (f) 12F Aqua Trunk CPR Cable Method B
MPO-16TC4MPO5	5m OM4 BASE-16 MPO (f) to MPO (f) 16F Aqua Trunk CPR Cable Method B
MPO-24TC4MPO5	5m OM4 BASE-24 MPO(f) to MPO(f) 24F Aqua Trunk CPR Cable Method B

### OS2 MPO CPR Trunk Cable YELLOW

MPO-12TC9MPO1	1m OS2 MPO (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MPO-12TC9MPO2	2m OS2 MPO (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MPO-12TC9MPO3	3m OS2 MPO (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MPO-12TC9MPO5	5m OS2 MPO (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MPO-12TC9MPO10	10m OS2 MPO (F) - MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MPO-8TC9MPO5	5m OS2 BASE-8 MPO (f) to MPO (f) 12F Yellow Trunk CPR Cable Method B
MPO-16TC9MPO5	5m OS2 BASE-16 MPO (f) to MPO (f) 16F Yellow Trunk CPR Cable Method B
MPO-24TC9MPO5	5m OS2 BASE-24 MPO(f) to MPO(f) 24F Yellow Trunk CPR Cable Method B

### MTP CPR Breakout Cable

#### OM4 MTP CPR Breakout Cable AQUA

MTP-12B04LC1	1m OM4 MTP (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MTP-12B04LC2	2m OM4 MTP (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MTP-12B04LC3	3m OM4 MTP (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MTP-12B04LC5	5m OM4 MTP (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MTP-12B04LC10	10m OM4 MTP (F) to 4X LC (DX) QSFP Breakout Aqua Cca Cable Method B
MTP-8B04LC5	5m OM4 BASE-8 MTP (f) to 4X LC(DX) Breakout Aqua CPR Cable Method B
MTP-16B04LC5	5m OM4 BASE-16 MTP (f) to 8X LC(DX) Breakout Aqua CPR Cable Method B
MTP-24B04LC5	5m OM4 BASE-24 MTP(f) to 12X LC(DX) Breakout Aqua CPR Cable Method B

#### OS2 MTP CPR Breakout Cable YELLOW

MTP-12B09LC1	1m OS2 MTP (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MTP-12B09LC2	2m OS2 MTP (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MTP-12B09LC3	3m OS2 MTP (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MTP-12B09LC5	5m OS2 MTP (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MTP-12B09LC10	10m OS2 MTP (F) to 4X LC (DX) QSFP Breakout Yellow Cca Cable Method B
MTP-8B09LC5	5m OS2 BASE-8 MTP (f) to 4X LC(DX) Breakout Yellow CPR Cable Method B
MTP-16B09LC5	5m OS2 BASE-16 MTP (f) to 8X LC(DX) Breakout Yellow CPR Cable Method B
MTP-24B09LC5	5m OS2 BASE-24 MTP(f) to 12X LC(DX) Breakout Yellow CPR Cable Method B



# DataCentre Products

## MTP CPR Trunk Cable | MPO Breakout Cable | MPO Trunk Cable



PART NO	DESCRIPTION
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### MTP CPR Trunk Cable

#### OM4 MTP CPR Trunk Cable **AQUA**

MTP-12TC4MPO1	1m OM4 MTP (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MTP-12TC4MPO2	2m OM4 MTP (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MTP-12TC4MPO3	3m OM4 MTP (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MTP-12TC4MPO5	5m OM4 MTP (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MTP-12TC4MPO10	10m OM4 MTP (F) to MPO (F) Female 12F Aqua Cca Trunk Cable Method B
MTP-8TC4MTP5	5m OM4 BASE-8 MTP (f) to MTP (f) 12F Aqua CPR Trunk Cable Method B
MTP-16TC4MTP5	5m OM4 BASE-16 MTP (f) to MTP (f) 16F Aqua CPR Trunk Cable Method B
MTP-24TC4MTP5	5m OM4 BASE-24 MTP (f) to MTP (f) 24F Aqua CPR Trunk Cable Method B



#### OS2 MTP CPR Trunk Cable **YELLOW**

MTP-12TC9MPO1	1m OS2 MTP (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MTP-12TC9MPO2	2m OS2 MTP (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MTP-12TC9MPO3	3m OS2 MTP (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MTP-12TC9MPO5	5m OS2 MTP (F) to MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MTP-12TC9MPO10	10m OS2 MTP (F) - MPO (F) Female 12F Yellow Cca Trunk Cable Method B
MTP-8TC9MTP5	5m OS2 BASE-8 MTP (f) to MTP (f) 12F Yellow CPR Trunk Cable Method B
MTP-16TC9MTP5	5m OS2 BASE-16 MTP (f) to MTP (f) 16F Yellow CPR Trunk Cable Method B
MTP-24TC9MTP5	5m OS2 BASE-24 MTP (f) to MTP (f) 24F Yellow CPR Trunk Cable Method B



### MPO Breakout Cable

#### OM3 MPO Breakout Cable **AQUA**

MPO-F-4LCDX-OM3-01M	1m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-02M	2m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-03M	3m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-05M	5m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-10M	10m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM3-20M	20m OM3 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B

#### OM4 MPO Breakout Cable **AQUA**

MPO-F-4LCDX-OM4-01M	1m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-02M	2m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-03M	3m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-05M	5m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-10M	10m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B
MPO-F-4LCDX-OM4-20M	20m OM4 MPO(f) to 4X LC(DX) QSFP Breakout Aqua Cable Method B



PART NO	DESCRIPTION
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### OS2 MPO Breakout Cable **YELLOW**

MPO-F-4LCDX-OS2-01M	1m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-02M	2m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-03M	3m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-05M	5m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-10M	10m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B
MPO-F-4LCDX-OS2-20M	20m OS2 MPO(f) to 4X LC(DX) QSFP Breakout Yellow Cable Method B



### MPO Trunk Cable

#### OM3 MPO Trunk Cable **AQUA**

MPO-FF-OM3-B-12-01M	1m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-1.5M	1.5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-02M	2m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-03M	3m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-05M	5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-7.5M	7.5m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-10M	10m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-15M	15m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-20M	20m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-25M	25m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-30M	30m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM3-B-12-50M	50m OM3 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B



#### OM4 MPO Trunk Cable **AQUA**

MPO-FF-OM4-B-12-01M	1m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-1.5M	1.5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-02M	2m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-03M	3m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-05M	5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-7.5M	7.5m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-10M	10m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-15M	15m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-20M	20m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-25M	25m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-30M	30m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B
MPO-FF-OM4-B-12-50M	50m OM4 MPO (F) to MPO (F) Female 12 Fibre Aqua Trunk Cable- Method B





## 42RU Rack Comparison

Double your density with **CS® CONNECTOR**Generic **LC****CS® CONNECTOR**with **LC**

Total Capacity

**2048 CH****4096 F**

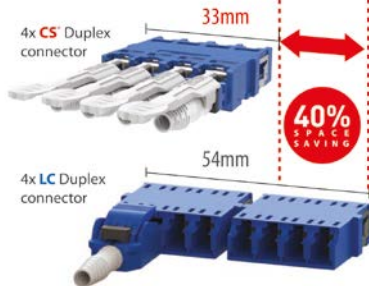
(single sided rack/cabinet)

with **CS®**

Total Capacity

**4352 CH****8704 F**

(single sided rack/cabinet)

Total **7RU**  
Cable  
Management  
SpaceTotal **13RU**  
Cable  
Management  
Space40% size reduction  
compared to LC Duplex

PART NO

DESCRIPTION

**OS2 MPO Trunk Cable YELLOW**

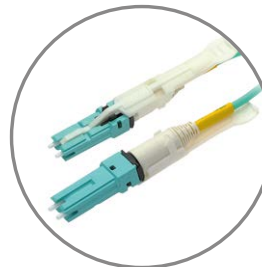
MPO-FF-OS2-B-12-01M	1m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-02M	2m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-03M	3m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-05M	5m OS2 MPO (F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-10M	10m OS2 MPO(F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B
MPO-FF-OS2-B-12-20M	20m OS2 MPO(F) to MPO (F) Female 12 Fibre Yellow Trunk Cable-Method B

**MPO to CS® Breakout Cable****OM4 MPO - CS® Breakout Cable**

MPO-F-4CSDX-OM4-01M	1m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B
MPO-F-4CSDX-OM4-02M	2m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B
MPO-F-4CSDX-OM4-03M	3m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B
MPO-F-4CSDX-OM4-05M	5m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B
MPO-F-4CSDX-OM4-10M	10m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B
MPO-F-4CSDX-OM4-20M	20m OM4 MPO (F) to CS (DX) QSFP Breakout Aqua Cable Method B

**OS2 MPO - CS® Breakout Cable**

MPO-F-4CSDX-OS2-01M	1m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B
MPO-F-4CSDX-OS2-02M	2m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B
MPO-F-4CSDX-OS2-03M	3m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B
MPO-F-4CSDX-OS2-05M	5m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B
MPO-F-4CSDX-OS2-10M	10m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B
MPO-F-4CSDX-OS2-20M	20m OS2 MPO (F) to CS (DX) QSFP Breakout Cable Method B

**OM4 CS® - CS® Duplex Patch Leads**

4CSCS1	1m OM4 50/125 CS-CS Duplex Aqua LSOH Fibre Patch Lead
4CSCS2	2m OM4 50/125 CS-CS Duplex Aqua LSOH Fibre Patch Lead
4CSCS3	3m OM4 50/125 CS-CS Duplex Aqua LSOH Fibre Patch Lead
4CSCS5	5m OM4 50/125 CS-CS Duplex Aqua LSOH Fibre Patch Lead
4CSCS10	10m OM4 50/125 CS-CS Duplex Aqua LSOH Fibre Patch Lead

# DataCentre Products

MPO to CS® Breakout Cable | MPO 1u White Fibre Patch Panel | Cat6a Copper Patch Panels | Cable Management



PART NO	DESCRIPTION
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## OS2 CS® - CS® Duplex Patch Leads

9CSCS1	1m OS2 9/125 CS APC - CS UPC Duplex LSOH Fibre Patch Lead
9CSCS2	2m OS2 9/125 CS APC - CS UPC Duplex LSOH Fibre Patch Lead
9CSCS3	3m OS2 9/125 CS APC - CS UPC Duplex LSOH Fibre Patch Lead
9CSCS5	5m OS2 9/125 CS APC - CS UPC Duplex LSOH Fibre Patch Lead
9CSCS10	10m OS2 9/125 CS APC - CS UPC Duplex LSOH Fibre Patch Lead

## OM4 CS® - LC Duplex Patch Leads

4CSLC1	1m OM4 50/125 CS - LC (Uniboot) Aqua LSOH Fibre Patch Lead
4CSLC2	2m OM4 50/125 CS - LC (Uniboot) Aqua LSOH Fibre Patch Lead
4CSLC3	3m OM4 50/125 CS - LC (Uniboot) Aqua LSOH Fibre Patch Lead
4CSLC5	5m OM4 50/125 CS - LC (Uniboot) Aqua LSOH Fibre Patch Lead
4CSLC10	10m OM4 50/125 CS - LC (Uniboot) Aqua LSOH Fibre Patch Lead

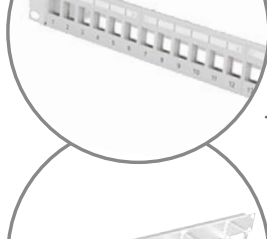
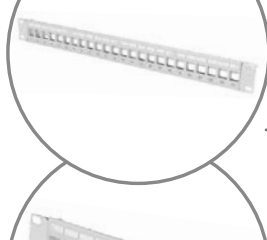
## OS2 CS® APC - LC APC Duplex Patch Leads

9CSLC1	1m OS2 9/125 CS UPC - LC UPC (Uniboot) LSOH Fibre Patch Lead
9CSLC2	2m OS2 9/125 CS UPC - LC UPC (Uniboot) LSOH Fibre Patch Lead
9CSLC3	3m OS2 9/125 CS UPC - LC UPC (Uniboot) LSOH Fibre Patch Lead
9CSLC5	5m OS2 9/125 CS UPC - LC UPC (Uniboot) LSOH Fibre Patch Lead
9CSLC10	10m OS2 9/125 CS UPC - LC UPC (Uniboot) LSOH Fibre Patch Lead

Contact our sales team for details on the **NEW SN and MDC VSFF Connectors and Cable Assemblies** as these develop in 2023...



References: CS = Senko™ | SN and MDC = Senko™ and USConec.



PART NO	DESCRIPTION
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## MPO 1u White Fibre Patch Panel

### MPO 96 Fibre 1u Patch Panel WHITE

XXMPO9624LC4W	96 Fibre White Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors
XXMPO9624LC9W	96 Fibre White Patch Panel 4 x 24 Fibre MPO/MTP OS2 Cassette to OS2 LC Adaptors
XXMPO9612LC4W	96 Fibre White Patch Panel 8 x 12 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors
XXMPO9612LC9W	96 Fibre White Patch Panel 8 x 12 Fibre MPO/MTP OS2 Cassette to OS2 LC Adaptors

### MPO 1152 Fibre 1u Patch Panel WHITE

XXMPO1152OM4W	1152 Fibre White Patch Panel 16 x 72 Fibre MPO/MTP OM4 Cassette to 64 OM4 MPO/MTP
XXMPO1152OS2W	1152 Fibre White Patch Panel 16 x 72 Fibre MPO/MTP OS2 Cassette to 64 OS2 MPO/MTP

## Cat6a Copper Patch Panels

72-3760W	24 Port 1u Unloaded Keystone Patch Panel WHITE
72-3761W	48 Port 1u Unloaded Keystone Patch Panel WHITE
72-3759	Cat6a Shielded Keystone Shuttered Jack PoE+

## Cable Management

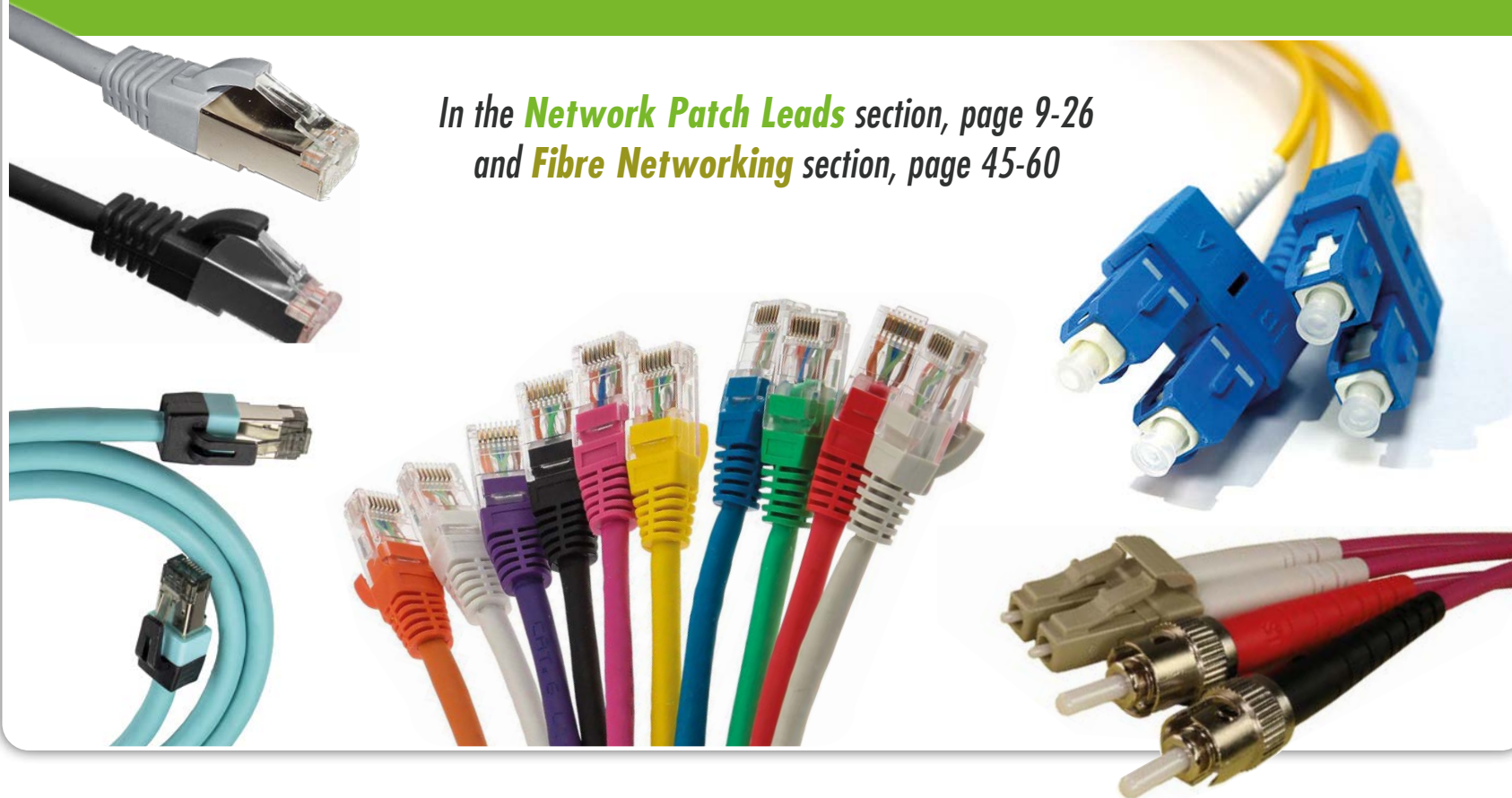
72-2668W	1u 4 Ring Cable Tidy Panel WHITE
72-2601W	1u Toolless Blanking Panel WHITE
72-2680W	1u Brush Letterbox Cable Tidy Panel WHITE
52-3108W	Cage Nuts & Screws M6 WHITE (PK 50)

See page 106 for our range of SFP Optical Transceivers



# See our extensive range of copper & fibre ETHERNET CABLES

In the **Network Patch Leads** section, page 9-26  
and **Fibre Networking** section, page 45-60





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OR3STC5	5m OM3 50/125 ST-SC Duplex Orange LSOH Fibre Patch Lead	56
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OR4LCLC1.5	1.5m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead	54
OR4LCLC2	2m OM4 50/125 LC-LC Duplex Orange LSOH Fibre Patch Lead	54
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PB-4W2MB	4 Way UK Black 13Amp Surge Protected Power Strip with 2m Lead	67
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PDU8HC20	8 Way UK Horizontal 1u PDU with IEC - C20 3m Feed	68
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PE60-6020	2m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	18
PE60-6030	3m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	18
PE60-6050	5m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	18
PE60-6100	10m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
PE60-6150	15m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
PE60-6200	20m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
PE60-6250	25m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
PE60-6300	30m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
PE60-6400	40m Cat6 RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	19
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PE65-6005	0.5m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6010	1m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6020	2m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6030	3m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6050	5m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6100	10m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6150	15m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6200	20m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6250	25m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6300	30m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE65-6400	40m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
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PE65-6750	75m Cat6 RJ45 Black F/FTP PE External Flush Moulded Solid Patch Lead	13
PE67-6005	0.5m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6010	1m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6020	2m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6030	3m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6050	5m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6100	10m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6150	15m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6200	20m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6250	25m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6300	30m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6350	35m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6400	40m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6450	45m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
PE67-6500	50m Cat5e RJ45 Black U/UTP PE External Flush Moulded Solid Patch Lead	23
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POE173	Ultra PoE Injector 10/100/1000Mbps 60w Internal Power	104
POE-175-95	Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector	104
POE2400G	24-Port PoE Injector Gigabit Ethernet 19" 802.3at (400w)	104
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PPD25-5MASS	5m x 25mm LSOH Flexible Conduit Black Fitted with Glands & Nuts	39
PPD25WH-50M	50m x 25mm LSOH Flexible Conduit Coil White	39
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PS6U-16	PatchSee Class6Patch 4.9m Cat6 U/UTP PVC Intelligent Patch Lead	25
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PS6U-4	PatchSee Class6Patch 1.2m Cat6 U/UTP PVC Intelligent Patch Lead	25
PS6U-5	PatchSee Class6Patch 1.5m Cat6 U/UTP PVC Intelligent Patch Lead	25
PS6U-7	PatchSee Class6Patch 2.1m Cat6 U/UTP PVC Intelligent Patch Lead	25
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PSPC6-DPU-20	Patchsee DirectPatch 6.1m Cat6a U/UTP PVC Intelligent Patch Lead	25
PSPC6-DPU-32	Patchsee DirectPatch 9.7m Cat6a U/UTP PVC Intelligent Patch Lead	25
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PSPC6F-3	Patchsee DirectPatch 0.9m Cat6a U/FTP LSOH Intelligent Patch Lead	25
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PSPC6U-10	Patchsee DirectPatch 3.1m Cat6a U/UTP PVC Intelligent Patch Lead	25
PSPC6U-16	Patchsee DirectPatch 4.9m Cat6a U/UTP PVC Intelligent Patch Lead	25
PSPC6U-2	Patchsee DirectPatch 0.6m Cat6a U/UTP PVC Intelligent Patch Lead	25
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VEL-OW64133	25m Reel x 16mm Velcro One Wrap Continuous Tape Purple	37
VEL-OW64136	25m Reel x 16mm Velcro One Wrap Continuous Tape Aqua	37
VEL-OW64137	25m Reel x 16mm Velcro One Wrap Continuous Tape Orange	37
VEL-OW64139	25m Reel x 20mm Velcro One Wrap Continuous Tape White	37
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VEL-OW64141	25m Reel x 20mm FRT Velcro One Wrap Continuous Tape Black	37
VEL-OW64146	25m Reel x 20mm Velcro One Wrap Continuous Tape Purple	37
VEL-OW64149	25m Reel x 20mm Velcro One Wrap Continuous Tape Aqua	37
VEL-OW64150	25m Reel x 20mm Velcro One Wrap Continuous Tape Orange	37
VEL-OW64153	25m Reel x 25mm Velcro One Wrap Continuous Tape Black	37
VEL-OW64159	25m Reel x 25mm Velcro One Wrap Continuous Tape Purple	37
VEL-OW64162	25m Reel x 25mm Velcro One Wrap Continuous Tape Aqua	37
VEL-OW64163	25m Reel x 25mm Velcro One Wrap Continuous Tape Orange	37
VEL-OW64178	25m Reel x 50mm Velcro One Wrap Continuous Tape White	37
VEL-OW64179	25m Reel x 50mm Velcro One Wrap Continuous Tape Black	37
VEL-OW64301	13mm x 200mm 25pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64327	13mm x 200mm 100pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64366	13mm x 200mm 750pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64367	13mm x 200mm 750pcs Spool FRT Velcro One Wrap Strap Black	37
VEL-OW64400	20mm x 150mm 25pcs Roll Velcro One Wrap Strap White	37
VEL-OW64401	20mm x 150mm 750pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64466	20mm x 150mm 750pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64527	20mm x 200mm 100pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64566	20mm x 200mm 750pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64567	20mm x 200mm 750pcs Spool FRT Velcro One Wrap Strap Black	37
VEL-OW64601	20mm x 230mm 25pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64627	20mm x 230mm 100pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64701	20mm x 330mm 25pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64727	20mm x 330mm 100pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64766	20mm x 330mm 700pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64767	20mm x 330mm 750pcs Spool FRT Velcro One Wrap Strap Black	37
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VEL-OW64801	25mm x 300mm 25pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64827	25mm x 300mm 100pcs Roll Velcro One Wrap Strap Black	37
VEL-OW64866	25mm x 300mm 750pcs Spool Velcro One Wrap Strap Black	37
VEL-OW64867	25mm x 300mm 750pcs Spool FRT Velcro One Wrap Strap Black	37
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VT3LCLC1	1m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCLC10	10m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCLC2	2m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCLC3	3m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCLC5	5m OM3 50/125 LC-LC Duplex Violet LSOH Fibre Patch Lead	56
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VT3LCS3	3m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCS5	5m OM3 50/125 LC-SC Duplex Violet LSOH Fibre Patch Lead	56
VT3LCS10	10m OM3 50/125 LC-ST Duplex Violet LSOH Fibre Patch Lead	56
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VT3SCSC1.5	1.5m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead	56
VT3SCSC20	20m OM3 50/125 SC-SC Duplex Violet LSOH Fibre Patch Lead	56
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XE65-6010	1m Cat6a RJ45 Black F/FTP IP67 XXTREME External Solid Patch Lead	23
XE65-6100	10m Cat6a RJ45 Black F/FTP IP67 XXTREME External Solid Patch Lead	23
XE67-6010	1m Cat5e RJ45 Black U/UTP IP67 XXTREME External Solid Patch Lead	23
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XE68-91CLC10	10m OS2 IP67 LC - IP67 LC Duplex Black XXtreme External Fibre Lead	59
XE68-91CLC2	2m OS2 IP67 LC - IP67 LC Duplex Black XXtreme External Fibre Lead	59
XE68-91CLC20	20m OS2 IP67 LC - IP67 LC Duplex Black XXtreme External Fibre Lead	59
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XX5E0001BK	Cat5e Black U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
XX5E0001C	Cat5e Violet U/UTP LSOH 24AWG Solid CPR Cca Cable 305m Reel Box	31
XX5E0001G	Cat5e Green U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
XX5E0001Y	Cat5e Orange U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
XX5E0001PVC	Cat5e Grey U/UTP PVC 24AWG Solid CPR Eca Cable 305m Reel Box	31
XX5E0001R	Cat5e Red U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
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XX600003BK	Cat6 Black U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
XX600003G	Cat6 Green U/UTP LSOH 24AWG Solid CPR Dca Cable 305m Reel Box	31
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XX600004B	Cat6 Blue U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box	31
XX600004BK	Cat6 Black U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box	31
XX600004GY	Cat6 Grey U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box	31
XX600004O	Cat6 Orange U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box	31
XX600004WH	Cat6 White U/UTP LSOH 24AWG Solid CPR B2ca Cable 305m Reel in Box	31
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XX6A00006	Cat6a Black F/FTP Maxxam XXtreme Outdoor Ethernet 23AWG 305m Reel in Box	31
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XXMPO9612LC9	96 Fibre Black Patch Panel 8 x 12 Fibre MPO/MTP OM4 Cassette to OS2 LC Adaptors	114
XXMPO9612LC9W	96 Fibre White Patch Panel 8 x 12 Fibre MPO/MTP OS2 Cassette to OS2 LC Adaptors	118
XXMPO9624LC4	96 Fibre Black Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors	114
XXMPO9624LC4W	96 Fibre White Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OM4 LC Adaptors	118
XXMPO9624LC9	96 Fibre Black Patch Panel 4 x 24 Fibre MPO/MTP OM4 Cassette to OS2 LC Adaptors	114
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XXP1050	Office Style Faceplate 50mm x 50mm Single Gang White	33
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# Terms & Conditions

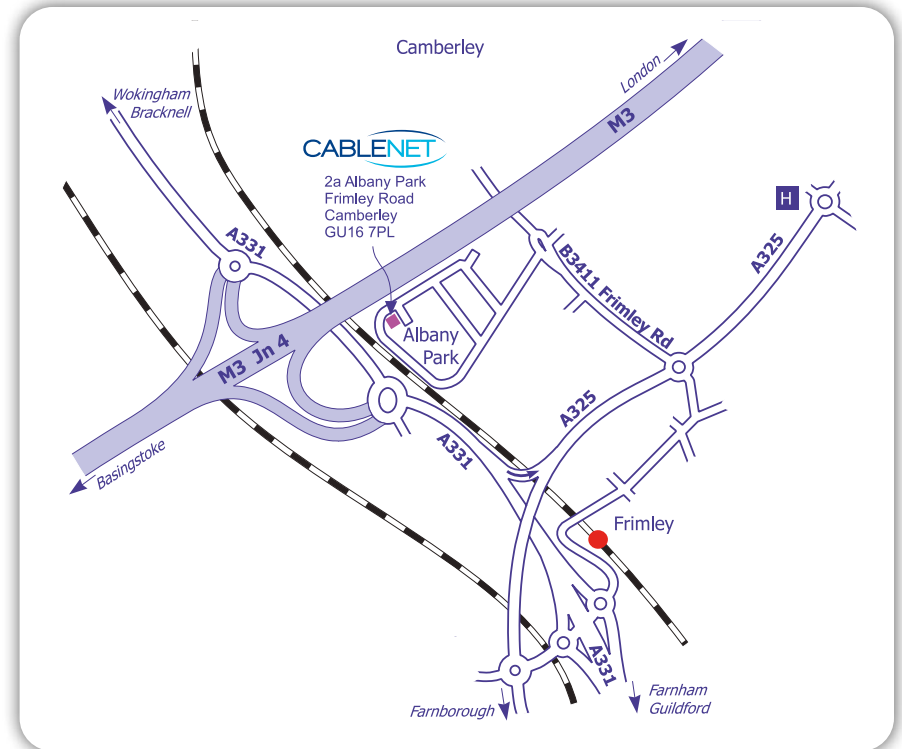
Orders are accepted on condition that the following Conditions of Sale be accepted by the Customer to the exclusion of the Customer's conditions and any other conditions of sale or purchase and that in the event of re-sale the Customer undertakes the responsibility of ensuring that the ultimate purchaser is also fully acquainted with and accepts the said Conditions.

1. Preliminary: In these terms and conditions "the Terms" means these terms and conditions in full, "quotation" means any quotation supplied to the Customer by the Company, "tender" means any tender supplied to the Customer by the Company, "Customer" means the party placing an order for the supply of Goods with the Company, "the Goods" means cables supplied by the Company and/or any specified accessories or goods, "the Company" means Cablenet Trading Ltd, "Contract" means a contract for the supply of Goods from the Company to the Customer formed in accordance with clause 3.
2. Quotations and Tenders: All quotations and tenders are "ex-works" unless otherwise stated and are subject to a firm order being placed within 28 days unless otherwise stated. For the avoidance of doubt quotations and tenders submitted by the Company do not constitute an offer for the sale of Goods.
3. Basis of Sale:
  - (a) Each order for Goods shall constitute a separate offer to form a Contract. Orders may be made by the Customer in writing (including by email) or by telephone. Orders must be accompanied by sufficient information to enable the Company to proceed with the order forthwith. No order from the Customer shall constitute a binding contract for the supply of Goods.
  - (b) The Contract for the supply of Goods shall be made on the earlier of the date that the Company confirms the order to the Customer in writing (including confirmation by email) and the time when the Goods ordered are delivered to the Customer. Any variation of the Contract must be in writing and signed by the Company and the Customer.
  - (c) Unless firm prices are agreed in the order the Contract price is based upon the cost of materials, labour, transport, fuel and other relevant factors applying, and statutory obligations at the time of the tender or quotation, and if between that date and the date of actual delivery, variation either by rise or fall shall occur in these costs, then the Contract price shall be amended to provide for these variations.
4. Customer Requirements:
  - (a) When supplying Goods in respect of a particular purpose every endeavour is made to meet the requirements of Customers from the information supplied by them. As full information will be supplied at the request of the Customer regarding the manufacture and capabilities of the Goods no responsibility is accepted as to the suitability of any Goods, except under the terms of the Company's Guarantee (as defined within clause 16). Without prejudice to the generality of the foregoing the Company will furnish upon request data relating to the application or use of the Goods but the Company will not be responsible and does not assume any liability whatsoever for the damage of any kind sustained either directly or indirectly by any person in or through the adoption or use of such data in whole or in part.
  - (b) The Company reserves the right prior to delivery to effect minor modifications or changes to the Goods without notice without materially affecting the specifications or performance of the Goods. Any such modifications or changes shall not entitle the Customer to reject the Goods.
5. Cancellation:
  - (a) The Company reserves the right to cancel any Contract within 7 days of the order being accepted in accordance with clause 3 if one or more of the Goods ordered was listed or quoted at an incorrect price due to a typographical or other error or omission. If the Company cancels the Contract the Company will notify the Customer in writing and re-credit the Customer's account any sum deducted, charged or invoiced but in any event within 10 days of the cancellation.
  - (b) No order which has been accepted by the Company may be cancelled by the Customer except with the agreement in writing of the Company and on terms that the Customer shall indemnify the Company in full against all loss (including loss of profit) costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Company as a result of cancellation.
6. Delivery and Completion Dates:
  - (a) In the event of either:
    - (i) The Company being delayed in or prevented from making delivery or completing the Contract owing to act of God, force majeure, war, civil disturbance, requisitioning, government or parliamentary restriction prohibition or enactment of any kind, import or export regulations, strike, lock-out, trade dispute, difficulty in obtaining workmen or materials, breakdown of machinery, shortage of fuel, fire, accident or any other cause whatsoever beyond the Company control; or
    - (ii) Non-delivery by the Company's suppliers, the Company shall be at liberty to cancel or suspend the Contract without incurring any liability for any loss or damage resulting therefrom.
  - (b) Whilst delivery and completion dates are given in good faith based upon information available to the Company at the time of quotation or tender, such dates are not guaranteed and the Company accepts no liability for delay (as defined in clause 6(a)(i)) in delivery or completion and no delay (as defined) shall entitle the Customer to reject any delivery or any further instalment or part of the order or to repudiate the Contract or the order or any part thereof or to claim any damages or compensation in respect of the said delay.
7. Delivery: Loss or Damage in Transit: When the Company delivers to the Customer, delivery will take place when the Goods are delivered to the Customer's premises or unloaded from transport whichever occurs last, and risk will thereupon pass to the Customer. When the Customer collects from the Company delivery will take place when the Goods are loaded on transport or leave the Company's works whichever occurs first, and risk will thereupon pass to the Customer.  
The Company accepts no responsibility for any loss or damage to Goods, howsoever arising, after delivery has taken place. The Company accepts responsibility only for repair or replacement of damaged or lost Goods where the cause of damage or loss was the result of negligence of the Company's employee or agent. Customers are strongly advised to make suitable insurance arrangements in respect of goods in transit out of the Company's works. Claims in respect of loss or damage in transit should be made within 7 days of delivery.  
Requests for proof of delivery must be made within 28 days of delivery.
8. Quantities: Whilst every endeavour will be made by the Company to deliver the exact quantity of Goods ordered, the Company reserves the right to deliver any quantity within 10% above or below the quantity ordered and to invoice the Customer for the quantity so delivered. Any claim that the quantity delivered is less than the quantity invoiced must be submitted to the Company within seven days of delivery.
9. Storage: If the Company does not receive forwarding instructions nor the Customer collect the Goods within five working days after notification to the Customer that the Goods are ready for delivery, the Customer shall arrange for storage at its own expense and risk, failing which the Company shall be at liberty to store or arrange

for storage of the Goods at the Customer's expense and risk and the Goods shall be paid for by the Customer by reference to the time when the Goods are ready for delivery or are due to be delivered, whichever is the later. Any charges for storage or demurrage after delivery will be paid for by the Customer.

10. Packing: Where Goods are sold packed the extent of packing and/or protection will be at the discretion of the Company unless the Customer specifically requests special packing. The Customer is hereby informed that certain large items of equipment require special packing. In all instances the Customer will be charged extra for special packing.
11. Returns:
  - (a) Subject to the Customer obtaining prior written consent of the Company the Company may within 30 days of the date of delivery and in its sole discretion accept the return of such of the Goods supplied being surplus to the Customer's requirements and which shall not have been used or altered in any respect and shall be in the same condition as at the date of delivery.
  - (b) Where the Company has agreed to take any Goods by way of return such Goods shall be delivered to the Company within 2 days of the date specified by the Company. Credit shall be made by the Company in respect of the purchase value of the Goods so returned in the invoice submitted to the Customer for payment less a handling charge which sum shall be agreed between the Customer and the Company prior to any written consent to the return of such Goods by the Company.
  - (c) No Goods shall be accepted for return and no credit given in respect of the purchase value of the same where upon inspection by the Company the Goods are found to be in any way defective notwithstanding that prior written consent to the return shall have been given by the Company.
12. Title to Goods:
  - (a) Notwithstanding risk in the Goods passing in accordance with clause 7 hereof title in the Goods shall not pass to the Customer until payment is received by the Company in full for the Goods and there are no other amounts outstanding from the Customer to the Company.
  - (b) Before title has passed to the Customer under the terms of this clause and without prejudice to any of its other rights, the Company shall have the right to recover or re-sell the Goods or any of them and may enter upon the Customer's premises by its servants or agents for that purpose and in respect thereof the Customer shall take all reasonable precautions to protect the Goods from damage or loss arising from any cause and shall indicate that the Goods are the property of the Company.
  - (c) In the event of a sale of the Goods by the Customer in the ordinary course of its business to a third party the Customer shall assign to the Company in writing its rights to recover the selling price from the third party concerned if so required by the Company.
  - (d) As the insurable risk in the Goods shall pass to the Customer as soon as the materials are delivered to him or to his order and pending disposal of the Customer shall keep the Goods insured in the amount of the price at which the Goods are sold to the Customer against all insurable risks.
  - (e) If the Goods are destroyed by an insured risk prior to the same being paid for by the Customer, the Customer shall receive the proceeds of any such insurance as trustee for the Company.
13. Statutory Obligations: The Company will offer every co-operation in observing any such obligations but the responsibility for the observance of all obligations the performance of which is necessary to comply with the Law of the Country where the Goods are used or installed rests with the Customer who shall indemnify the Company against all claims arising under any such Act or by reason of non-compliance with any of the said obligations and against all costs and expenses arising from any such claim.
14. Payment: Prices quoted are net. Subject to credit being approved accounts are due for payment no later than 30 days from the last day of the calendar month in which delivery is made, otherwise payment must be received by the Company before delivery. When deliveries are spread over a period each consignment will be invoiced as despatched and each month's invoices will be treated as a separate account and be payable accordingly. The Company reserves the right to charge interest on all overdue accounts at three per cent above current bank rates. Failure to pay for any Goods or for any delivery or instalment shall entitle the Company to suspend further deliveries both on the same order and on any other order from the Customer without prejudice to any other right the Company may have. The Company reserves the right where a Customer fails to adhere strictly to the agreed credit terms or where genuine doubts arise as to a Customer's financial position to suspend delivery of any order or any part or instalment without liability until payments or satisfactory security for payment has been provided. Where Goods are to be delivered outside the U.K. payment must be made against delivery of the Goods or shipping documents f.o.b. U.K. Port unless credit arrangements approved by the Company have been made.
15. Licences etc: The Customer will be responsible in all instances for obtaining any necessary import licences and complying with all regulations governing admission of the Goods into the country of destination and for payment of all customs, duties, port duties and charges.
16. Guarantee: The Goods supplied by this Company are supplied with the following express guarantee: The Company takes all precautions to ensure the quality of Goods and materials and guarantees all Goods against faulty material for a period of twelve months from the date of delivery. The Company will repair or replace free of charge, any Goods that are, to the Company's reasonable satisfaction, shown to be defective within that period ("Guarantee"). The terms of this Guarantee apply only to the first owner/user of the Goods. The Company will in no circumstances accept responsibility for any defects whatsoever arising from misuse of any Goods or arising out of situations outside the control of the Company. Any claim under this Guarantee must be made within 30 days of discovery of the defect.
17. Restrictions on Company's Liability:
  - (a) Subject as aforesaid, all express or implied warranties, conditions, representations, undertakings or liabilities, whether imposed by statute, common law, custom or otherwise regarding damage or loss are hereby expressly excluded insofar that such matters are within the bounds of reasonableness and in the light of these terms and conditions; in particular, without impairing the generality of the foregoing, no statement or description contained in any catalogue or advertisement issued by the Company or any communication from the Company or made verbally or in writing by any of the Company's agents, representatives, officers or employees shall give or imply or be construed as giving or implying any such warranty, condition, representation, undertaking or liability as aforesaid nor shall such statement or description enlarge, vary or override or be construed to enlarge, vary or override in any way any of the conditions herein save that nothing in these Terms shall exclude the Company's liability for fraudulent misrepresentation.
  - (b) A claim in respect of any defect or failure to comply with the specification or order or in respect of any delivery or instalment of an order or any part thereof shall not entitle the Customer to cancel or refuse delivery of or payment for any other order, delivery or instalment or any part of the same order, delivery or instalment.
  - (c) The Company's liability in connection with the sale of Goods to the Customer shall be as follows:
    - (i) in respect of physical damage to the Customer's tangible property to the extent that it results from wilful default or negligence of the Company, its employees, agents or contractors, the Company's liability to be limited to an amount of £ 100.00 in respect of each incident or series of connected incidents; (ii) in respect of all other direct loss, or whether in contract, tort or otherwise, the Seller's liability shall not exceed £100.00; and

# How to find us



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(iii) in respect of any loss of goodwill or any type of consequential, special or indirect loss or damage the Company's liability shall be nil.

(d) Nothing in these Terms excludes or limits liability of the Company for death or personal injury caused by the negligence and/or breach as set out in the Terms shall exclude or limit the liability of the Company for death or personal injury caused by the negligence of the Company.

## 18. Insolvency of Customer:

(a) This clause applies if:-

- (i) the Customer makes any voluntary arrangement with its creditors or (being an individual or a firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or
- (ii) an encumbrancer takes possession of or a receiver is appointed over any of the property or assets of the Customer; or
- (iii) the Customer ceases, or threatens to cease, to carry on the business, or the Company reasonably apprehends that any of the events mentioned above is met in relation to the Customer and notifies the Customer accordingly.

(b) If this clause applies then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel the Contract and suspend any further deliveries under the Contract without any liability to the Customer, and if the Goods have been delivered but not paid for, all of the Company's outstanding invoices to the Customer become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 19. Legal Construction: The Contract shall in all respects be construed and operate as an English contract and shall be governed by English Law.

## 20. Notices etc: It is agreed between the parties' that:-

All communications between the parties shall be by means of email, facsimile transmission or by letter sent by first class ordinary post. The former shall be deemed to arrive at the time when transmission without any fault of the entire document is completed. The letter shall be deemed to arrive on the working day next after posting when posted within the UK and within 7 days of posting when posted outside the UK.

## 21. Sub-Contractors: The right is reserved by the Company to sub-contract all or any part of the Contract without prior notice to the Customer.

## 22. Third Party Rights: A person who is not a party to the Contract has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of these Terms but this does not affect any right or remedy of a third party which exists or is available apart from that Act.

## 23. Severance: If any provision of these Terms is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Terms shall remain in full force and effect.

## 24. Waiver: The waiver by either party of the breach or default of any provisions of these Terms by the other party shall not be construed as a waiver of any succeeding breach of the same or other provisions, nor shall any delay or omission on the part of either party to exercise or avail itself of any right power or privilege that it has or may have whereunto operate as a waiver of any breach or default by the other party.

## 25. Data Protection Act 1998:

We may transfer information about you to our bankers/financiers for the purposes of providing services and for the following purposes:-

- Obtaining credit insurance
- Making credit reference agency searches
- Credit control
- Assessment & analysis (including credit scoring, market, product & statistical analysis)
- Securitisation
- Protecting our interests

We will provide you with details of our bankers/financiers & that of any credit reference agencies used on request.

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# CABLENET

## 2023 Product Guide



Network Patch Leads



Copper Networking



Fibre Networking



Power Leads & PDUs



Computer Cables



AV & Security



Intelligent Power &  
Active Communications



DataCentre Products

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