

Pre-Terminated Fibre Solutions Guide



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Pre-terminated Fibre Links



Connectix have developed a cost effective pre-terminated cabling system called OPAL™ (Optical Pre-Assembled Link) which is completely based around standard networking products. The system allows a fibre optic network to be installed in a fraction of the time taken by conventional on-site direct termination or fusion splicing. It requires no special installation skills or equipment, and can therefore be installed by non-specialist personnel, vastly reducing the installation cost.

The system consists of standard internal/external tight buffered distribution cable, which is supplied in specific lengths for each cable run in an installation. This cable is available in multimode or singlemode with fibre counts of 4, 8, 12, 16 or 24.

The cable is factory prepared with a gland on each end which is epoxy bonded onto the Kevlar Strain Relief Yarn in the cable. The secondary coated fibres are terminated with either ST, SC or LC connectors which are fully tested and certified under our quality system. This ensures that the quality of the complete cable assembly is guaranteed before shipping to site.

A specially developed termination protection sleeve is fitted to each end of the cable assembly to protect the connectors during shipping and installation. This sleeve has a small diameter and is flexible, lightweight and extremely rugged. The protection sleeve connects onto the epoxy bonded cable gland and can withstand the high tensile loads applied when pulling cables through ducts. A pulling eye is incorporated to allow the attachment of a draw cable.

After cable installation, the protection sleeves are removed and the connectors are threaded through the gland hole of any cable management enclosure. A gland nut is used to secure the cable gland in place. Then the connectors are simply connected to the adaptors inside the enclosure to complete the installation.

Features and Benefits

- Quick installation time
- Low installation cost
- Full test documentations supplied
- No special fibre optic skills or equipment required
- Factory terminated and tested
- ST, SC and LC connector options (multi and single mode)
- 4, 8, 12, 16 & 24 fibre configurations
- Standard cables and management enclosures

Opal™ Options	
Length	Customer specified
Number of Cores	4 / 8 / 12 / 16 / 24
Connector (End 1)	ST / SC / LC / FC
Connector (End 2)	ST / SC / LC / FC
Fibre Types	OS2(9/125) / OM2(50/125) / OM3(50/125) / OM4(50/125)
Cable Type	Tight Buffered / Loose Tube
Armoured Cable	No / CSA Armoured / SWA Armoured

Opal™ Recommended Maximum Distances					
	62.5/125 (OM1)	50/125 (OM2)	50/125 (OM3)	50/125 (OM4)	9/125 (OS2)
100 Mbs	2 km	2 km	2 km	2 km	40 km
1 Gbs	275 m	550 m	800 m	1100 m	100 km
10 Gbs	33 m	82 m	300 m	550 m	40 km
40/100 Gbs	-	-	100 m	125 m	40 km