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Datasheet

Fibre Optic Cable Assembly, Multi-Mode

RS Stock number 535-7525

Description

Multimode patchcords are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet. The multimode patchcords are manufactured using LSZH cables which conform to IEC, EIA TIA and Telecordia standards. The OM1 patchcords are terminated with a standard connector which gives optimum optical performance.

Features

► SC, LC, ST, FC and MTRJ connectors
► Low smoke zero halogen (LSZH) cable in orange colour
► 900µm / 600 µm tight buffer
► OM1 fibre conforms to ITU-651, TIA/EIA 492AAAA
► Simplex and duplex assemblies
► Duplex assemblies available with clips (SC and LC)
► Different connector performance range for specific application
► Armoured option also available

Applications

► Gigabit Ethernet in high speed LAN networks over an indicative 275 m link length at 850 nm (SX) wavelength
► Legacy networks including Ethernet, Fast Ethernet and FDDI
► Data centres
► Premises cabling in data networks including backbone, riser and horizontal
► Supports video, data and voice services

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Description

The ST connector is the most popular connector used today. It can be seen in every area of the communications environment, from a telecoms distribution room to a local area network closet the ST has set the standard for optical fibre connectors.

The Optronics ST connectors are manufactured using the highest quality components. The connectors exceeds all areas of the standards covering optical fibre connectors.

Versions Available:

2mm Patch
3mm Patch
900 µm

Termination Procedures
Prep cable end, Epoxy-Crimp-Polish

Product Packaging
Standard packaging: 100pcs bulk packed
Special packaging available by request

Colours
2 & 3 mm Boot, Black, Red, Yellow
900 µm Boot, Black, Blue, Yellow

Intermateability
Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 61754-2.

Optical Performance
Singlemode
Insertion loss: Max. 0.3 dB Typical 0.2 dB

Return Loss: UPC > 50dB Typical 55 dB

Multimode
Insertion loss: Max. 0.3 dB Typical 0.12 dB

Mechanical
Capillary diameter tolerance:
SM—126 ± 0.5µm
MM—127 =/- 0.5µm
Ferrule Diameter:2.5mm ± .001
Ceramic pre-radiused, PC-end finish for Physical Contact ferrule to ferrule. R 10 to 25mm

Tensile Strength Cable retention: >50 N
(2 & 3mm boot versions only)

Vibration (Mated Pair):
(IEC 61300-2-1)
10-55 Hz, 1.5mm P to P
=0.3dB Change

Mating Durability:
(IEC 61300-2-2)
1000 mating cycles
Clean every 25
< 0.2 dB Change

High Temperature:
(IEC 61300-2-18)
75°C for 96 hours
=0.2dB Change

Damp Heat:
(IEC 61300-2-19)
60°C at 95% RH, 96 hours
=0.2dB Change

Temperature Cycling
(IEC 61300-2-48)
-40 to +85°C, 42 cycles
=0.2dB Change

Operating Temperature
-40°C to +85°C