9/125 (OS1/OS2) Optical Fibre Patchcords

V.3.1

Description

FibreFab singlemode patchcords are used fro long haul telecom networks and also used for high speed metropolitan and access network. The singlemode patchcords are manufactured using LSZH cables which conform to IEC, EIA TIA and Telecordia standards. The OS1/OS2 patchcords are terminated with standard FibreFab connector which gives optimum optical performance.

Features / Benefits

► **SC, LC, ST, FC MU and E2000 connectors**
► **Low smoke zero halogen (LSZH) cable in yellow colour**
► **900µm tight buffer**
► **OS1/OS2 fibre conforms to ITU-652.D, TIA/EIA 492 CAAA**
► **Simplex and duplex assemblies**
► **Duplex assemblies available with clips (SC and LC)**
► **Different connector performance range for specific application**
► **Armoured option also available**

Applications

► **Operational in the entire 1260 nm to 1625 nm wavelength range**
► **Low chromatic dispersion in the 1310 nm operating window**
► **Low attenuation at the 1383 nm water peak region**
► **Operational in the 1360 nm to 1460 nm wavelength extended band**
► **Supports 1 GB/s up to an indicative 5 km in data networks**
► **Supports high speed multi channel video, data and voice services in metropolitan and access networks**
► **ATM, SONET and WDM**

Connector Specification

OPTICAL PERFORMANCE	SINGLEMODE	CONFORMANCE
Insertion loss (Typ)	0.25 dB	IEC 61300-3-4
Ave/Master*	0.18 dB	IEC 61300-3-4
Ave/Random*	0.18 dB	IEC 61300-3-34
Return Loss	50/60 dB	IEC 61300-3-6

Cable Specification

CHARACTERISTICS	SIMPLEX	DUPLEX
Cable Material	LSZH or PVC	LSZH or PVC
Strength Member	Aramid	Aramid
Crush (N)	1000	1000
Operating Temperature (˚C)	-20 to 60	-20 to 60
Fire Specification	IEC 60332-1 / IEC 60332-3	

Fibre Specification

CHARACTERISTICS	
Attenuation (dB)	0.38 @ 1310nm / 0.25 @ 1550nm
Chromatic Dispersion (ps/nm x km)	3.0 @ 1310nm / 18.0 @ 1550nm
Max Ethernet Transmittable Distance	Please refer to Fibre Comparison Chart

Part Number Generator

Connectors end 1[1]		Connectors end 2[1]		Mode		Cable configuration		Cable colour		Length (m)
	—		—	09	—		—	YE	—	

FC
FCA(APC)
SC
SCA (APC)
ST
LC
LCA (APC)
MU
E2
E2A[2]

S = Simplex
D = Duplex

1m
2m
3m
5m
10m

[1] Other Connectors Available on Request
[2] E2 = E2000