



Fiber System Solutions - Fiber Patchcords – OS1

Overview

The single mode fiber optic patchcords are used for long haul telecom networks and also used for high speed metropolitan and access network. They are manufactured using LSZH cables which conform to IEC, EIA TIA standards. The OS1 fiber optic patchcords are terminated with standard connector which gives optimum optical performance.

TECHNICAL DATA

Standards

Fiber Optic type OS1, in accordance with ITU-652.D, TIA/EIA 492CAAA

Features and Specifications

Available with connectors type: FC, LC, SC, ST
Cable LSZH – Color: yellow
900µm “tight buffer”
Simplex and duplex assemblies
Duplex assemblies available with clips (SC e LC)

Application

Operational in the entire 1260nm to 1625nm wavelength range;
Low chromatic dispersion in the 1310nm operating window;
Low attenuation at the 1383nm “water peak” region;
Operational in the 1360nm to 1460nm wavelength extended band;
Supports high speed multi-channel video, voice and data services in metropolitan and access networks;
ATM, SONET and WDM.

Table: Cable Specification.

Characteristics	Simplex	Duplex
Cable (Material)	LSZH	LSZH
Strength Member	Aramid	Aramid
Crush [N]	1000	1000
Temperature[°C]	-20 to 60	-20 to 60
Fire Specification	IEC 60332-1 /	IEC 60332-3

Table: Connector Specification.

Performance	Multimode	Conformance
Insertion Loss	0.25dB	IEC61300-3-4
Return Loss	50/60dB	IEC61300-3-6

Table: Fiber Specifications.

Characteristics	
Attenuation [dB]	0.38dB @ 1310nm / 0.25dB @ 1550nm
Bandwidth OFL [MHz x km]	3.0 MH3 @ 1310nm / 18.0 MH3 @ 1550nm