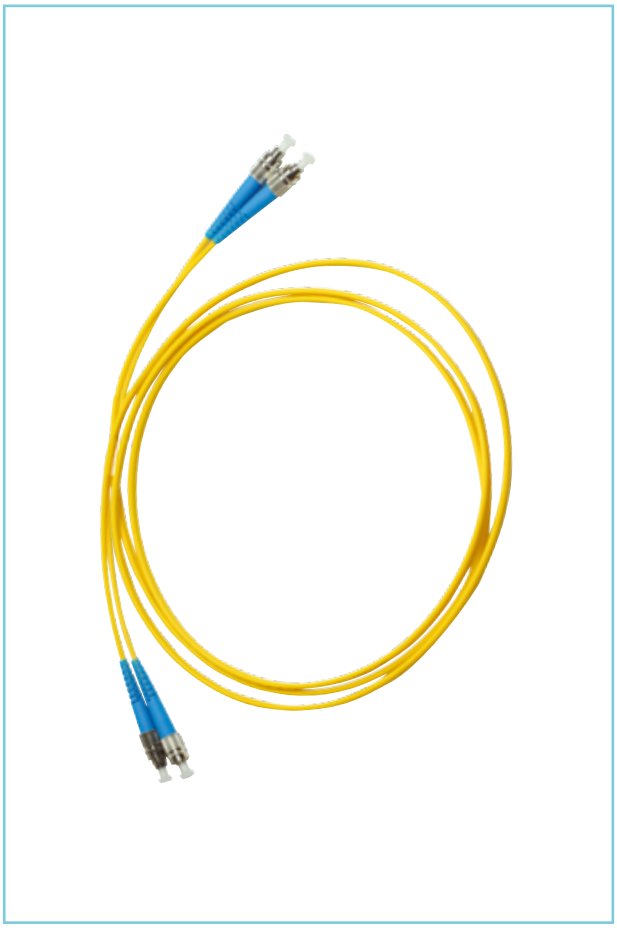
High Performance Patchcords

V.3.0

Description

FibreFab High Performance Patchcords are a range of “best in class” patchcords employing highest grade components, manufacturing processes and test methods that offer excellent performance for demanding telecommunications and data centre applications. High Performance Patchcords are used were low loss budgets are essential and may be considered for splice replacement.



Features / Benefits

- Conform to IEC, EIA-TIA, and Telecordia performance requirements
- Grade A singlemode connector class applied
- Special high accuracy G.652D photonics fibre
- End face geometry result data included
- RoHS, REACH & SvHC compliant

Applications

- Data centre
- Telecommunication networks
- High bandwidth 40G & 100G networks
- CATV
- LAN and WAN
- FTTX
- Broadband network

Termination Specification

OPTICAL PERFORMANCE	SINGLEMODE	CONFORMANCE
IL MAX/ Master (Acceptance)	0.10 dB	IEC 61300-3-4
MAX IL/Random	0.20 dB	IEC 61300-3-34
Ave/Master*	0.08 dB	IEC 61300-3-4
Ave/Random*	0.08 dB	IEC 61300-3-34
Return Loss	55/70 dB	IEC 61300-3-6
MECHANICAL PROPERTIES	**CRITERIA***	**CONFORMANCE**
Mechanical endurance	500 matings	IEC 61300-2-2
Vibration	10-55 Hz, 0.75 amplitude	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	IEC 61300-2-12
Cable retention	Magnitude 90 N	IEC 61300-2-4
Cable torsion	1.5kg-2.5 kg for 2mm-3mm cable diameter	IEC 61300-2-5

*** The change in attenuation for all the above listed criteria shall be a maximum of 0.10dB**

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Cable Specification

CHARACTERISTICS	UNITS	SIMPLEX
Cable Material		LSZH
Strength Member		Aramid
Crush	N	1000
Operating Temperature	˚C	-20 to 60
Secondary Buffer Diameter (2.0mm, 2.4mm and 3.0mm)	µm	900±50
Secondary Buffer Diameter (1.6mm and 1.8mm)	µm	600±50
Colour		SM – Yellow MM – Orange(OM1,OM2) MM – Aqua (OM3, OM4)

Fibre Specification

CHARACTERISTICS	UNITS	SINGLEMODE
Cladding Diameter	µm	125±0.3
Core/Cladding Concentricity Error	µm	≤0.3
Cladding Non Circularity	%	≤0.7
Polarization Mode Dispersion (PMD)	Ps/(km)½	≤0.06
Mode Field Diameter (mfd) @ 1310nm	µm	9.2±0.4
Mode Field Diameter (mfd) @ 1550nm	µm	10.4±0.5

Part Number Generator

HP/Z

Connector End A[1]	
FC	FC
FC/APC	FCA
SC	SC
SC/APC	SCA
ST	ST
LC	LC
LC/APC	LCA
E2000	E2
E2000/ APC	E2A

Connector End B[1]	
FC	FC
FC/APC	FCA
SC	SC
SC/APC	SCA
ST	ST
LC	LC
LC/APC	LCA
E2000	E2
E2000/ APC	E2A

Fibre Type	
OS1/ OS2	09
G.657A1	A1

Cable Configuration[2]	
Duplex	D
Simplex	S

Cable Colour[3]	
Yellow	YE

Cable Length (M)[4]	
1 Mtr	1
2 Mtrs	2
3 Mtrs	3
5 Mtrs	5
10 Mtrs	10
X Mtrs	xx