

High Performance Patchcords

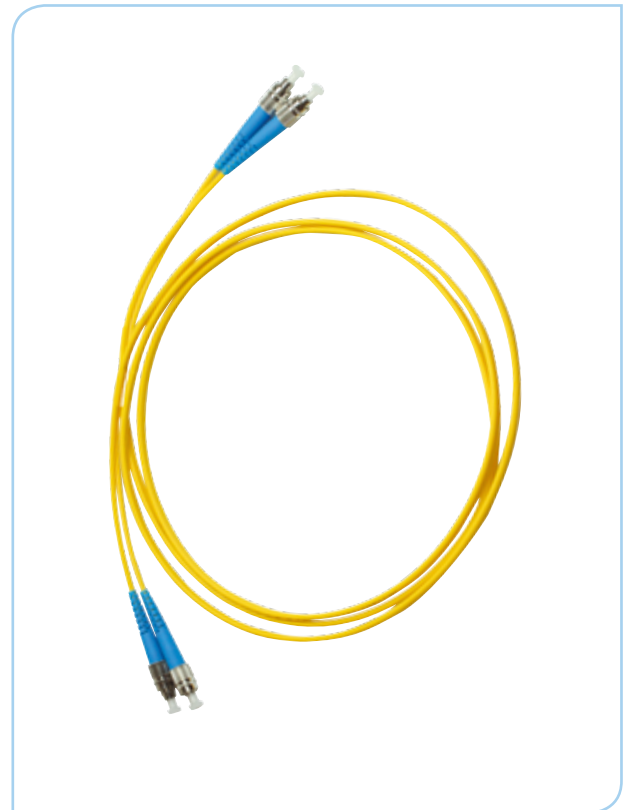
Optronics High Performance Patchcords are a range of “best in class” patchcords employing highest grade components, manufacturing processes and test methods that offer excellent performance for demanding telecommunications and data centre applications. High Performance Patchcords are used where low loss 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

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

Connector End A ¹		Connector End B ¹		Fibre Type		Cable Configuration ²		Cable Colour ³		Cable Length (M) ⁴		HP/Z
FC	FC	FC	FC	OS1/ OS2	09	Duplex	D	Yellow	YE	1 Mtr	1	
FC/APC	FCA	FC/APC	FCA	G.657A1	A1	Simplex	S			2 Mtrs	2	
SC	SC	SC	SC							3 Mtrs	3	
SC/APC	SCA	SC/APC	SCA							5 Mtrs	5	
ST	ST	ST	ST							10 Mtrs	10	
LC	LC	LC	LC							X Mtrs	xx	
LC/APC	LCA	LC/APC	LCA									
E2000	E2	E2000	E2									
E2000/ APC	E2A	E2000/ APC	E2A									