



# Fiber Optic Patchcords

Signalmax patchcords utilise the best quality connectors and cables available, backed by over 14 years manufacturing experience in producing fiber optic cable assemblies.

Each assembly is packaged individually and individually identified for traceability.

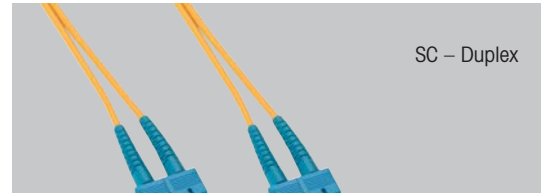
- Every Signalmax Patch cord is 100% tested and supplied with its own test certification.
- Stock available in yellow, orange, grey, aqua.
- Listed are our most popular multimode duplex patchcords—we can supply patchcords in all connector types, cable lengths and colours.

## BENEFITS

- Conform to IEC, EIA-TIA, and Telecordia performance requirements
- End face geometry result data included
- RoHS, REACH & SvHC compliant

## APPLICATIONS

- Data Centre
- Telecommunication Networks
- CATV
- LAN and WAN
- FTTX
- Broadband Network



# Fiber Optic Patchcords

## Cable Specification

CHARACTERISTIC	SIMPLEX	DUPLEX
Cable Material	LSZH or PVC	LSZH or PVC
Strength Member	Aramid	Aramid
Crush (N)	1,000	1,000
Operating Temperature (°C)	-20 to +60	-20 to +60
Secondary Buffer Diameter (µm) (2.0/2.4/3.0 mm)	900 ±50	900 ±50
Secondary Buffer Diameter (µm) (1.6 mm and 1.8 mm)	600 ±50	600 ±50
Minimum Bending Radius (mm)	10D (installed) 20D (loaded)	10D (installed) 20D (loaded)
Fire Specification	IEC 60332-1 / IEC 60332-3	

The patchcords are available in standard length of 1, 2, 3, 5 m.  
For other lengths please contact us for the actual P/N lead times.

FEATURES	
OS1	✓
OM1	✓
OM2	✓
OM3	✓
OM4	✓
Internal Use	✓
External Use	✗
Fire Retardant	✓
Water Resistant	✗
Rodent Resistant	✗
Armored	✗

## Connector Specification

OPTICAL PERFORMANCE	SINGLEMODE	MULTIMODE	CONFORMANCE
Outer Diameter	OS1	OM1/OM2/OM3/OM4	
MAX IL/Master (Acceptance)	0.15 dB	0.15 dB	IEC 61300-3-4
MAX IL/Random	0.30 dB	0.25 dB	IEC 61300-3-34
Ave/Master*	0.18 dB	0.15 dB	IEC 61300-3-4
Ave/Random*	0.18 dB	0.20 dB	IEC 61300-3-34
Return Loss	55/65 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 1 m, 5 drops	IEC 61300-2-12
Cable retention	Magnitude 90 N	IEC 61300-2-4
Cable torsion	1.5-2.5 kg for 2-3 mm	IEC 61300-2-5

\* The change in attenuation for all the above listed criteria shall be a maximum of 0.20 dB.

## Patchcords

FIBRE GRADE	CONNECTOR 1	CONNECTOR 2	CONSTRUCTION	LENGTH
OM1 62.5/125, MM	STpc	STpc	Simplex	1m = 1
OM2 50/125, MM	SCpc	SCpc	Duplex	2m = 2
OM3 50/125, MM enh	SCapc	SCapc		3m = 3
OM4 50/125, MM 10G+	LCpc	LCpc		5m = 5
OS1 09/125, SM	Lcapc	Lcapc		xm = x
	xx	xx		