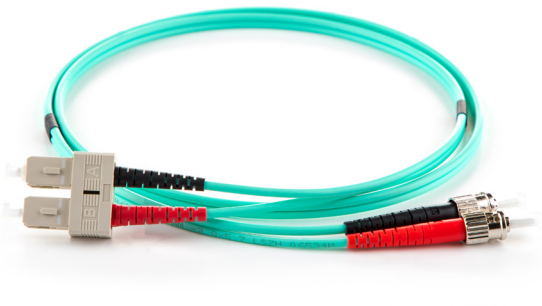
OM4 50/125 SC-ST DUPLEX FIBRE OPTIC PATCH CORDS

Manufactured using 50µm multimode fibre optimised for the use with 850nm VCSELS (vertical cavity surface emitting lasers), OM4 multimode patch cords are used particularly in 10, 40 and 100 Gb/s applications, where the transmission distances and higher bandwidth requirements have dictated a need for a higher performance but cost-effective multimode system. Although not a replacement of OM3 systems, OM4, which is backward compatible with OM3 systems, provides an additional insertion loss margin to help compensate for less than ideal cabling installations and a greater reach at higher bandwidths at an overall cost that remains less than OS2 singlemode systems. All assemblies are fully tested prior to delivery and supplied with test results.
Most common connector types, configurations and lengths are available from stock, using 3mm (for additional ruggedising) or 2mm diameter cable on request. OM4 multimode patch cords are supplied with an aqua LSZH cable jacket as standard. Non stocked configurations (length, colour, connectors and cable type) can be manufactured to meet specific requirements.

APPLICATIONS

- Data centres
- Storage area networks
- LAN/Enterprise
- High performance computing centres
- Central offices
- For use in 40 -100 Gb/s networks >100m indicative link length at 850nm (SR) wavelength
- For use in 10 Gb/s networks >300m indicative link length at 850nm (SR) wavelength
- For use in 1 Gb/s networks >1000m indicative link length at 850nm (SX) wavelength



FEATURES

- 850nm laser optimised
- SC, LC, and ST connectors as standard, other connectors available
- LSZH - Low smoke zero halogen, aqua jacket
- 900µm tight buffer, 3mm simplex and duplex cable (2mm cable on request)
- Available in other colours
- Armoured, round duplex and flat twin patch cords also available
- OM4 fibre conforms to or exceeds all relevant ISO/IEC, TIA/EIA and ITU standards
- All patch cords come with a UPC polished connector end face as standard

FIBRE SPECIFICATION

Attenuation (db/km)	≤ 2.4 @ 850nm / ≤ 0.6 @ 1300nm
Overfilled Modal Bandwidth (MHz x km)	≥ 3500 @ 850nm / ≥ 500 @ 1300nm
Effective Modal Bandwidth (MHz x km)	≥ 4700 @ 850nm
Application Support Distance on: 40 and 100 Gigabit Ethernet -SR (m)	150 @ 850nm
10 GBase - SR (m)	550 @ 850nm
1000 Base - SX (m)	1100 @ 850nm

CABLE SPECIFICATION

	SIMPLEX	DUPLEX
Cable Material	LSZH	LSZH
Strength Member	Aramid	Aramid
Crush (N/100mm)	1000	1000
Tensile (N)	120	120
Operating temperature (°C)	-20 to 60	-20 to 60

CONNECTOR SPECIFICATION

IL Max/Master (db) (Acceptance)	≤ 0.25
Av./Random (db)	≤ 0.20