MULTIMODE PATCH CORD · OM2

OM2
PATCH CORD

MODEL **MM 50/125**

OM2 multimode patch cord, 50/125 µm, LSZH jacket, insertion loss ≤ 0.3 dB, for communication rooms and data centres.

INSERTION LOSS	BANDWIDTH
≤ 0.3 dB	**≥ 500 MHz·km**
CORE	JACKET
50 µm	**ORANGE LSZH**



01 OVERVIEW

Description & features

OM2 multimode patch cords are used in communication rooms and data centres. Multimode fibre has a much larger core than single mode fibre (typically 50 µm or 62.5 µm) and carries many modes at a given wavelength. Because the modes travel with different propagation constants and group velocities, bandwidth is limited and loss is higher than in single mode fibre, so multimode links span a few hundred metres.

FEATURES

- Conform to IEC, EIA-TIA or Telcordia performance requirements.
- Available in patch cords with 2 mm or 3 mm cable and LSZH jacket.
- Available with 900 µm buffer.
- RoHS, REACH and SvHC compliant materials.

APPLICATIONS

- Telecommunication networks
- CATV
- LAN and WAN
- FTTX
- Broadband network
- Data centre

CONFIGURATION

SC and LC connectors, simplex and duplex.

02 SPECIFICATION

Cable & fibre specification

CHARACTERISTICS	SIMPLEX / DUPLEX
Cable material	LSZH
Strength member	Aramid yarn
Diameter	3.0 mm
Crush	100 N
Operating temperature	−20 to +60 °C
Fire specification	IEC 60332-1
Fiber	MM OM2 (50/125 µm)
Colour	Orange
Length	1 m - 200 m, support customize

FIBRE SPECIFICATION

PARAMETER	VALUE
Fiber type	OM2
Attenuation (dB/km)	2.30 - 2.80 @ 850 nm / 0.60 - 1.00 @ 1300 nm
Effective bandwidth (MHz·km)	≥ 500 - 200 @ 850 nm / ≥ 1200 - 400 @ 1300 nm
Numerical aperture	0.18 - 0.215
Core diameter	50 µm
Cladding diameter	125 µm

03 CONNECTOR

Optical performance & endface geometry

PARAMETER	SPECIFICATION
Optical	MM
Insertion loss	≤ 0.3 dB
Return loss	≥ 35 dB (UPC)
Repeatability	≤ 0.1 dB
Durability	≤ 0.2 dB typical change, 1,000 matings
Tensile strength	60 N

PACKING

- 1 pc per polybag (picture for reference only).
- 50 - 100 pcs per carton box.



Polybag packing

04 CONFIGURATIONS

Connector combinations & packing



LC/LC multimode simplex



SC/SC multimode simplex



SC/LC multimode simplex



SC/LC multimode duplex



SC/SC multimode duplex



LC/LC multimode duplex

ZUOYEAL

ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

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This datasheet describes the OM2 multimode patch cord at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

OM2 · 50/125 µm · ORANGE

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