

Dolphin MTFC8FF Fiber Patch Cable Data Sheet



Optical Patch Cable



The MTFC8FF is a 24-fibre (PCIe x8) optical patch cable. The cable ends feature female MPO connectors compatible with standard MPO male connectors. This product supports Dolphin's PCIe 3.0 and PCIe 4.0 SFF-8644 fiber optic pigtailed, as well as Dolphin's PCIe 3.0 and 4.0 FireFly-based adapter cards with x8 links / dual FireFly configurations. Various fiber cable lengths are available, up to 200 meters.

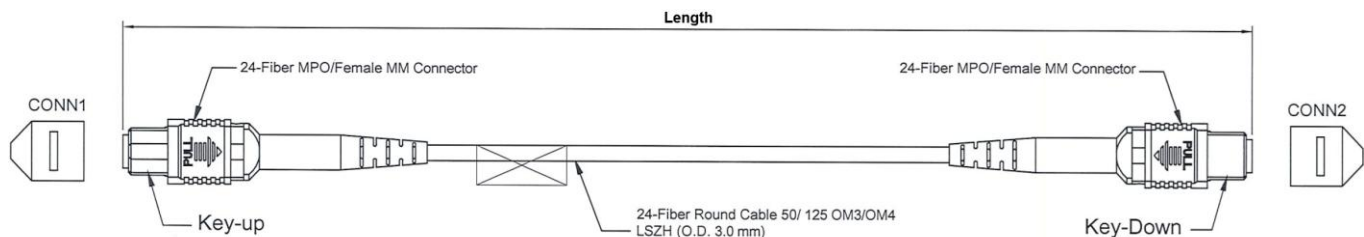
Features

- PCIe 3.0 x8 and PCIe 4.0 x8 support
- Female MPO connectors
- 24 Fibers
- RoHS 2.0 compliant

Part Numbers

Part	Length	Fiber
MTFC8FF -XXXM	1m, 10m, 50m, 100m	OM3/LSZH
MTFC8FF -XXXM	200m	OM4/LSZH

Drawing

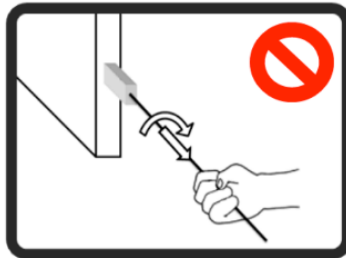
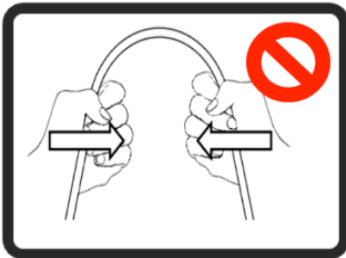


Technical Specification

CONN1	FIBER COLOR	CONN2	CONN1	FIBER COLOR	CONN2	Parameter	Value
1	BLUE	13	13	BLUE	1	Core diameter	50 ± 3.0 μm
2	ORANGE	14	14	ORANGE	2	Cladding diameter	125 ± 2.0 μm
3	GREEN	15	15	GREEN	3	Fiber bandwidth (MHz · km)	OM3:850/1300 um ≥ 1500/500 MHz. km OM4:850/1300 um ≥ 3500/500 MHz. km
4	BROWN	16	16	BROWN	4	Connector insertion loss	Typical = 0.5dB, Max =0.75 dB
5	GRAY	17	17	GRAY	5	Cable Attenuation	2.5dB/km@850nm,0.8 dB/km @ 1300 nm
6	WHITE	18	18	WHITE	6	Operating temperature	- 40 °C to +75 °C
7	RED	19	19	RED	7	Storage temperature	- 40 °C to +85 °C
8	BLACK	20	20	BLACK	8	Cable outer diameter	3.0 mm
9	YELLOW	21	21	YELLOW	9	Bend Radius	Over 30 mm
10	VIOLET	22	22	VIOLET	10	Tensile load	Under 80N
11	ROSE	23	23	ROSE	11	Connector polish	Flat PC
12	AQUA	24	24	AQUA	12	Jacket color	OM3-Aqua, OM4-Violet
						Polarity	A for 24 fibers
						Length Tolerance	<25m: +200mm / -0mm ≥25m: +400mm / -0mm

Handling

Handle the product with care and avoid exposing it to conditions beyond those specified in the Absolute Maximum Ratings. Always place the product on a flat, stable surface. Dropping the product may result in injury or malfunction. Avoid subjecting the cable to sharp bends during installation or operation. Bending the cable beyond its minimum bend radius may cause damage. Additionally, avoid twisting, pulling, or applying excessive force to the cable ends, as this may cause malfunction.



Regulatory Marking

The product holds the following regulatory markings:

