

# Dolphin MTFC4FF Fiber Patch Cable Data Sheet



## Optical Patch Cable



The MTFC4FF is a 12-fibre (PCIe x4) 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 pigtails, as well as Dolphin's PCIe 3.0 and 4.0 FireFly-based adapter cards with x4 connectivity. Various fiber cable lengths are available, up to 200 meters.

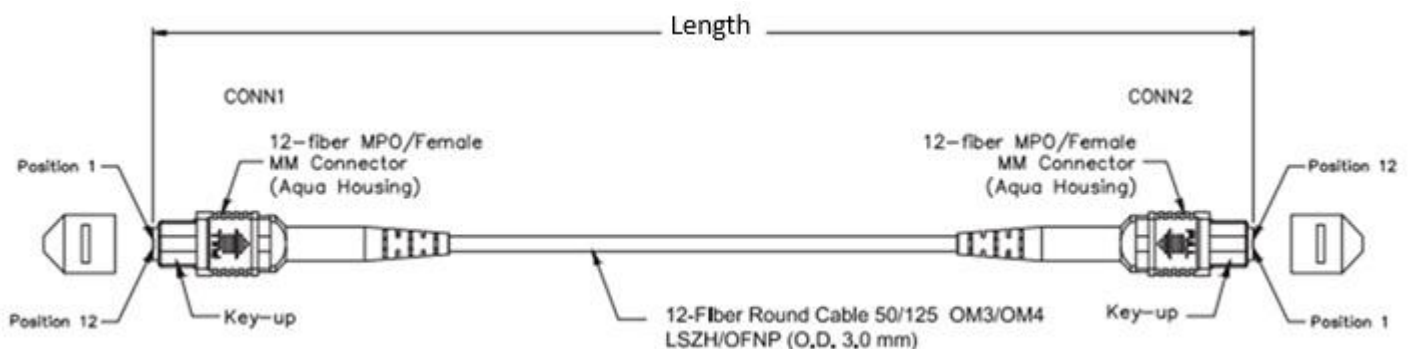
## Features

- PCIe 3.0 x4 and PCIe 4.0 x4 support
- Female MPO connectors
- 12 Fibers
- RoHS 2.0 compliant

## Part Numbers

Part	Length	Fiber
MFTC4FF-XXXM	1m, 10m, 50m, 100m	OM3/LSZH
MFTC4FF-XXXM	200m	OM4/LSZH

## Drawing



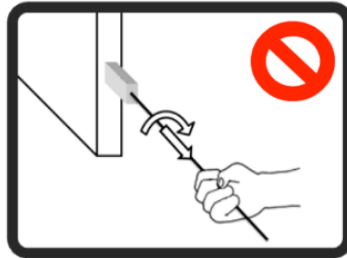
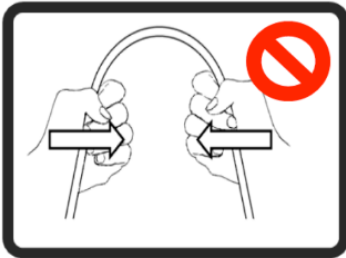
## Technical Specification

CONN1 Position Number	CABLE Buffer Color	CONN2 Position Number
Position 1	Blue	Position 12
Position 2	Orange	Position 11
Position 3	Green	Position 10
Position 4	Brown	Position 9
Position 5	Gray	Position 8
Position 6	White	Position 7
Position 7	Red	Position 6
Position 8	Black	Position 5
Position 9	Yellow	Position 4
Position 10	Violet	Position 3
Position 11	Rose	Position 2

Parameter	Value
Core diameter	50 ± 3.0 µm
Cladding diameter	125 ± 2.0 µm
Fiber bandwidth (MHz · km)	OM3:850/1300 um ≥ 1500/500 MHz. km OM4:850/1300 um ≥ 3500/500 MHz. km
Connector insertion loss	Typical = 0.5dB, Max =0.75 dB
Cable Attenuation	2.5dB/km@850nm,0.8 dB/km @ 1300 nm
Operating temperature	- 40 °C to +75 °C
Storage temperature	- 40 °C to +85 °C
Cable outer diameter	3.0 mm
Bend Radius	Over 30 mm
Tensile load	Under 80N
Connector polish	Flat PC
Jacket color	OM3-Aqua, OM4-Violet
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 marking:

