MPO-MPO Single-stranded Trunk Cable

Features & Benefits

- 12 and 24 fiber counts
- Over-jacketed for increased protection
- Bend-insensitive/bend optimized fibers
- Plenum (OFNP / FT6), LSZH Riser OFNR (FT-4-ST1)
- OS2, OM3 and OM4 performance types
- Colored outer-jacket to denote performance
- Ultra-low loss connector performance
- Suitable for routing in trays, racks and under raised floors
- Colored jacket for easy identification
- Compact 3mm strands for easy routing within racks and panels
- Multi-mode MPO & MTP are polarity Interchangeable.

Overview

PPC's single-stranded trunks provide the backbone connection between UHD chassis and modules in central offices. Single-stranded trunks offer a high degree of flexibility and scalability, and PPC offers these with a secondary jacket to give a higher degree of protection within cable path ways.

Single-stranded trunks provide a scalable solution for users who wish to deploy 12 or 24 fibers in a single cable rather than high fiber-count multi-stranded cables. This bite-sized approach makes it easier to redeploy cables if necessary and helps to spread the costs of periodical installations.

With this cable construction, you get the best of both worlds because the cable is robust and protected in the pathways yet compact and flexible inside racks and in front of equipment. PPC recommends trunk cables are configured with male connectors at each end and polarity type B. This simplifies the upgrade path to higher data rates such as 40G and 100G.

Technical Data

Mechanical Data

Specification	Unit	Value	
		12F	24F
Design		1 x 12	1 x 24
Sub-unit nominal diameter	mm	2.9mm ±0.2	3.6mm ±0.2
Outer cable nominal diameter	mm	4.5 ±0.2	5.6 ±0.2
Max installation tension	N	440	
Max. operation tension	N	132	
Min. bending radius without tension	mm	10 x cable ø	
Min. bending radius under maximum tension	mm	20 x cable ø	

Optical Data

Specification	Value	
Fiber category	OS2 - 9/125 bend insensitive	OM3/4 bend-optimized
Trunk IL (Low Loss)	Single-mode OS2 ≤1.5dB	Multi-mode OM3/OM4 ≤0.70dB
Trunk IL (Ultra Low Loss)	Single-mode OS2 ≤0.70dB	Multi-mode OM3/OM4 ≤0.50dB
Trunk RL	Single-mode OS2 UPC ≥ 50dB Multi-mode OM3/OM4 ≥ 30dB	Single-mode OS2 APC ≥ 60dB

This product may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

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Technical Data

Environmental Data

Specification	Value
Operating temperature	-10 °C to 70 °C (-10 °F to 158 °F)
Free of halogen	Yes
2011/65/EC RoHS	Fully compliant

Technical Drawing

PPC trunk cables are supplied with tail lengths suitable for use with UHD chassis and modules. We advise users to carefully calculate the tail length based on the position of the chassis inside the rack and the nearest available rack cable entry aperture. A minimum of 1 m tail is required for installations so that the outer jacket of the main cable can be fixed vertically in the side of the rack. Different fan-out tail lengths are available on request.

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Ordering Information

TA1 ___ ___ ___ ___ ___ ___ ___ ___ ___
       1   2   3   4 5 6   7   8   9

1. MPO type side A (left side)

30 = MTP 8 fiber Female (no pins)
31 = MTP APC 8 fiber Female (no pins)
32 = MTP 8 fiber Male (pinned)
33 = MTP APC 8 fiber Male (pinned)
34 = MPO PLUS Universal 8 fiber Female (no pins)
35 = MPO PLUS APC Universal 8 fiber Female (no pins)
36 = MPO PLUS Universal 8 fiber Male (pinned)
37 = MPO PLUS APC Universal 8 fiber Male (pinned)
40 = MTP 12 fiber Female (no pins)
41 = MTP APC 12 fiber Female (no pins)
42 = MTP 12 fiber Male (pinned)
43 = MTP APC 12 fiber Male (pinned)
44 = MPO PLUS Universal 12 fiber Female (no pins)
45 = MPO PLUS Universal APC 12 fiber Female (no pins)
46 = MPO PLUS Universal 12 fiber Male (pinned)
47 = MPO PLUS Universal APC 12 fiber Male (pinned)
60 = MTP 24 fiber Female (no pins)
61 = MTP APC 24 fiber Female (no pins)
62 = MTP 24 fiber Male (pinned)
63 = MTP APC 24 fiber Male (pinned)
64 = MPO PLUS Universal 24 fiber Female (no pins)
65 = MPO PLUS APC Universal 24 fiber Female (no pins)
66 = MPO PLUS Universal 24 fiber Male (pinned)
67 = MPO PLUS APC Universal 24 fiber Male (pinned)

2. MPO Performance

M = Multi-mode Elite (MPO) Ultra Low Loss
S = Single-mode Standard (MPO)
T = Single-mode Elite (MPO)

3. MPO type side B (right side)

XX = See table for Side A

4. Cable type

L = Low smoke zero halogen
P = Plenum rated
R = Riser rated

5. Cable construction

S = Single jacket
O = Over-jacket

6. Polarity type

A = Type A
B = Type B
C = Type C

7. Tail length from housing front end of connector (m's)

05 = 0.5 m tail length
10 = 1 m tail length
15 = 1.5 m tail length
20 = 2 m tail length

8. Fiber Type

2 = Single-mode G657.
3 = Multi-mode OM3
4 = Multi-mode OM4
5 = Multi-mode OM5

9. Length in meters total (connector end to connector end)

005 = 0.5 m
050 = 5.0 m
500 = 50.0 m

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