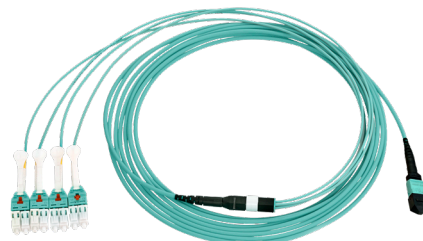


MPO-LC Uni-boot Harness



Features & Benefits

- Compact 3mm round cable (12 fiber)
- Compact 3.6mm round cable (24 fibers)
- Bend-insensitive/bend optimized fibers
- OS2, OM3 and OM4 performance types
- Color-coded shroud to denote performance
- Pulling tab for easy access to connectors in high-density environments
- Fast polarity reversal with unique rotating connector keys (subject to connector choice)
- Ultra-low loss performance



Overview

PPC's MPO-LC Uni-boot Harness provides fast and precise connections from patch panels to high-density servers and switches. The furcation housing is extremely compact and with a cable diameter of only 3 mm, the single cord construction reduces cable consumption by as much as 50% compared to conventional Figure 8 duplex cables. Harnesses can be supplied with straight tails or staggered tails to match the particular equipment and port numbering scheme on the equipment.

Each harness tail is numbered behind the boot for easy identification, and cables and connector shrouds are color-coded depending on the fiber type required. An optional pulling tab at the rear of the connector provides unparalleled access to connectors, and allows users to make fast moves, adds and changes even in applications where LC ports are stacked directly adjacent to one another.

Polarity reversal is also possible with the uni-boot connectors (TYPE 2) thanks to a simple locking trigger, which allows the shroud to be pulled back and the connectors to be rotated 180°.

Technical Data

Mechanical Data

Specification	Value
Cable diameter	3.0mm (MPO side) and 2.0mm (LC tail)
Durability	Min. 500 cycles

Optical Data

Specification	Value
Fiber category	OS2 - 9/125 bend insensitive (A.1 or A.2) OM3/4 bend-optimized
Test Wavelength (nm)	850nm (Multi-mode), 1550nm (Single-mode)
Channel IL (Low Loss)	Single mode OS2 ≤ 1.0 dB Multi-mode OM3/OM4 ≤ 0.50 dB
Channel IL (Ultra Low Loss)	Single mode OS2 ≤ 0.60 dB Multi-mode OM3/OM4 ≤ 0.35 dB
Channel RL (MPO/MTP)	Single-mode OS2 APC ≥ 65 dB (Ultra Low Loss), 60dB (Low-Loss) Multi-mode OM3/OM4 ≥ 30 dB
Channel RL (LC)	Single-mode OS2 UPC ≥ 55 dB Single-mode OS2 APC ≥ 65 dB Multi-mode PC ≥ 30 dB

MPO-LC Uni-boot Harness

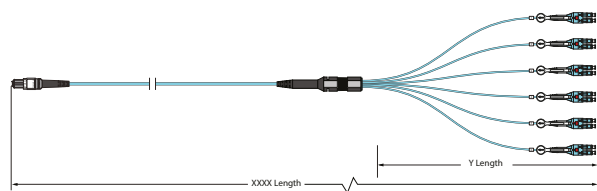


Technical Data

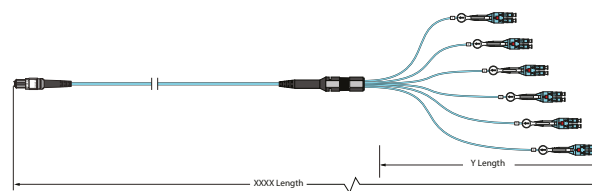
Environmental Data

Specification	Value
Operating temperature	-10 °C to 70 °C (14 °F to 158 °F)
Free of halogen	yes
2011/65/EC RoHS	Fully compliant

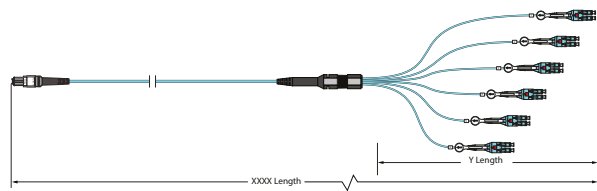
Technical Drawing



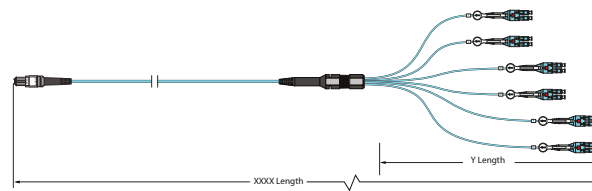
TYPE 1



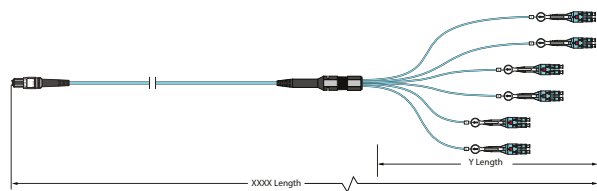
TYPE 2



TYPE 3



TYPE 4



TYPE 5

The different fan-out tail lengths are made to suit different types of switches and servers. The numbering on the tail relates to the port numbering on the equipment. The reason for changing the length and number of the tail is because sometimes the harness enters from different sides of the switch (right, left, bottom or top). This has an impact on the number and the length of the tail.

When connecting harnesses to PPC UHD Modules, please use TYPE 1 tail with equal length.

NOTE: Total length of assembly includes the tail length. Example: a 3m long assembly with a 1m long tail will produce a 2m long cable from the MPO to the furcation housing.

MPO-LC Uni-boot Harness



Ordering Information

H1

1

2

3

4

5

6

7

8

9

10

1. MPO side A

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 FLEX 8 fiber Female (no pins)
35 = MPO FLEX APC 8 fiber Female (no pins)
36 = MPO FLEX 8 fiber Male (pinned)
37 = MPO FLEX APC 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 FLEX 12 fiber Female (no pins)
45 = MPO FLEX APC 12 fiber Female (no pins)
46 = MPO FLEX 12 fiber Male (pinned)
47 = MPO FLEX 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)

2. MPO performance side A

L = Multi-mode Low Loss
M = Multi-mode Ultra Low Loss
S = Single-mode Low Loss
T = Single-mode Ultra Low Loss

3. Connector type side B

1C = LC Uni-boot TYPE 1
1D = LC FLEX Uni-boot (polarity change) TYPE 2
1E = LC FLEX Uni-boot with pull-tab (polarity change) TYPE 2
1F = LC APC Uni-boot TYPE 1
1G = LC Uni-boot with integrated push-pull tab TYPE 1
1H = LC/APC Uni-boot with integrated push-pull tab TYPE 1
1I = LC Uni-boot with integrated pull tab TYPE 1
1J = LC/APC Uni-boot with integrated pull tab TYPE 1

4. Performance side B

A = Single-mode APC
C = Single-mode UPC
D = Multi-mode Low Loss
E = Multi-mode Ultra Low Loss

5. Cable type

L = Low smoke zero halogen
P = Plenum rated

6. Polarity type

AS = Type A straight
AF = Type A flipped
BS = Type B straight
NS = Type N straight
NF = Type N flipped

7. Furcation tail type

1 = Straight tails (all same length)
2 = Staggered 15mm (1 shortest)
3 = Staggered 15mm (1 longest)
4 = Staggered 15mm (1 & 2 shortest)
5 = Staggered 15mm (1 & 2 longest)

8. Length of tail in mm (from housing front)

75 = 0.75M (0.15M shortest allowed)

9. Fiber type

Z = OS2 G657 (A.1 Corning SMF-28)
2 = OS2 G657 (A.2)
3 = Multi-mode OM3
4 = Multi-mode OM4

10. Length in meters (including tail length)

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

* PPC recommends MPO and LC FLEX connector for applications requiring polarity change or gender change in the field.

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