# PanMPO™ Round Harness Cable Assemblies

technical information

PanMPO™ Round Harness Cable Assemblies are pre-terminated 12-fiber cable assemblies. The unique design of the PanMPO™ Connector allows for rapid gender change in the field, in support of standards-compliant cable plant migration from 10G cassette-based systems to 40G MPO connector-based parallel optics cable plant. PanMPO™ Harness Assemblies meet the demands of 10G Ethernet, higher speed 40G Ethernet, and high-speed ANSI Fibre Channel systems, while maintaining compliance to the recommendations of TIA-568-C for both Serial Duplex and Parallel Optics wiring schemes. LC uniboot connectors reduce cable density on the switch by 40% and allow easy change of polarity.
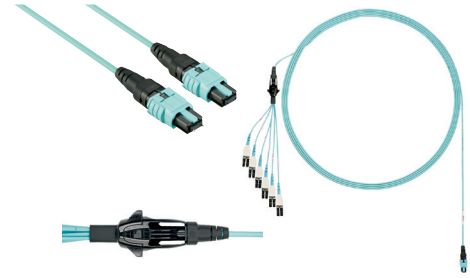
application

Connect multiple MPO-based infrastructure components to LC-based transceivers, such as LAN switches, servers, patch panels, and zone distribution areas. New cable management transition allows multiple harnesses to attach to each other or be secured to a rack or cabinet with Tak-Ty® Hook and Loop Cable Ties.

construction

Cable type:	3.0mm round indoor
Cable jacket ratings:	Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH)
Fiber types:	Bend insensitive OM3 Bend insensitive OM4
Connector types end 'A':	PanMPO female PanMPO male
Fiber count:	8 = 8-fiber 12 = 12-fiber
Jacket color:	OM3: Aqua OM4: Aqua
Connector types end 'B':	LC Uniboot (polarity changeable)

physical properties

Cable outside diameter (OD):	3.0mm
Minimum bend radius:	30mm
Flex:	100 cycles at 4.9N
Twist:	10 cycles @15N
Cable retention strength:	50N
Connector durability:	500 mating cycles*

optical properties

Maximum cable attenuation:	Multimode:	3.5dB/km at 850nm, 1.5dB/km at 1300nm
Maximum connector insertion loss:	Standard MPO: Standard LC:	0.50dB 0.25dB
Minimum connector insertion loss:	Multimode:	26dB minimum

environmental properties

Operating temperature:	0°C to 50°C
Storage and shipping temperature:	-40°C to 65°C
Installation temperature:	0°C to 50°C

standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-604-10 (FOCIS-10), TIA/EIA-568-C.1

RoHS compliant

*With proper cleaning and inspection

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part number

Example: FZTRP8NUSSNF003 = Fiber OM4, 12-fiber, round, plenum rated, PanMPO male to LC uniboot harness with 61cm equal breakout, standard IL, no pulling eye, 3 feet

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EXAMPLE	F	Z	T	R	P	8	N	U	S	S	N	F	0	0	3

1 – Fiber Product
F = Fiber
2 – Fiber Type
X = OM3
Z = OM4
3 – Fiber Count
T = 12-fiber
8 = 8-fiber
4 – Cable Type
R = Round
5 – Jacket Type
L = Low Smoke Zero Halogen (LSZH)
P = Optical Fiber Nonconductive Plenum (OFNP)
6 – Connector Type End "A"
7 = PanMPO™ Female
8 = PanMPO™ Male

7 – Connector Variant
N = No variant
8 – Connector Type End "B"
U = LC Uniboot
9 – Connector Variant
D = 1m equal breakout
S = 61cm equal breakout
F = Staggered pair 1 longest breakout
G = Staggered pair 1 shortest breakout
H = Staggered pairs 1 and 2 longest breakouts
J = Staggered pairs 1 and 2 shortest breakouts

10– Construction/Performance
S = Standard IL-Straight Thru
11 – Other
N = No variant
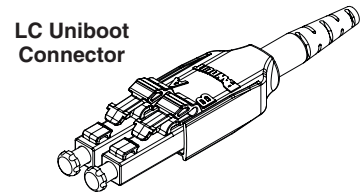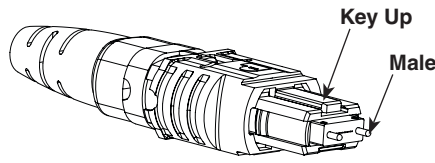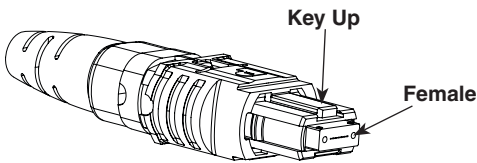**12 – Unit of Length**
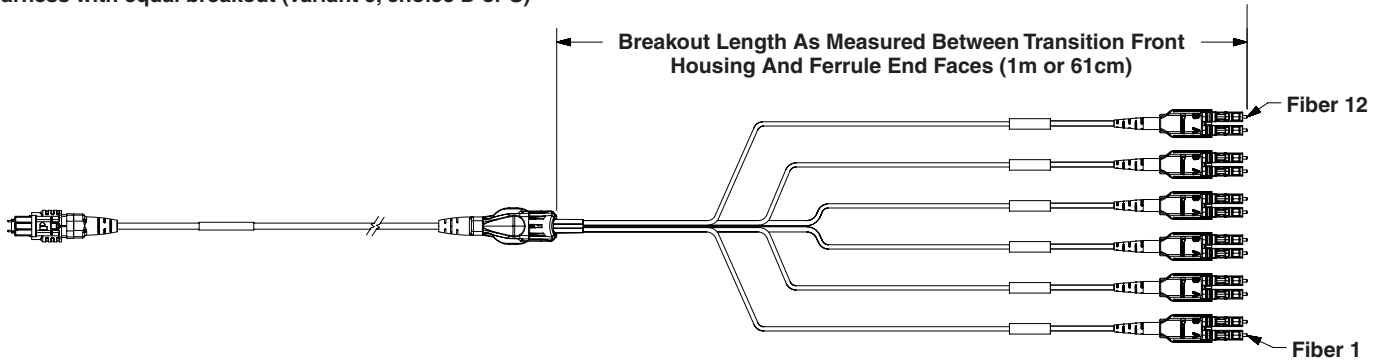M = Meters
F = Feet
13, 14, 15 – Length
Meters: 001 to 030
Feet: 003 to 100

For additional options, contact Panduit Customer Service at 800-777-3300.

harness assembly detail

Key Up
Female

Key Up
Male

LC Uniboot Connector

Harness with equal breakout (variant 9, choice D or S)

Breakout Length As Measured Between Transition Front Housing And Ferrule End Faces (1m or 61cm)

Fiber 12

Fiber 1

Note: 8F version is numbers 1 – 8 with fibers 9, 10, 11, and 12 dark.

staggered harness assembly detail

Harness with pairs 1 and 2 shortest or longest (variant 9, choice J or H)

Fiber 12

Fiber 1

190mm

205mm

220mm

LC Uniboot Connector

220mm

205mm

190mm

Fiber 12

Fiber 1
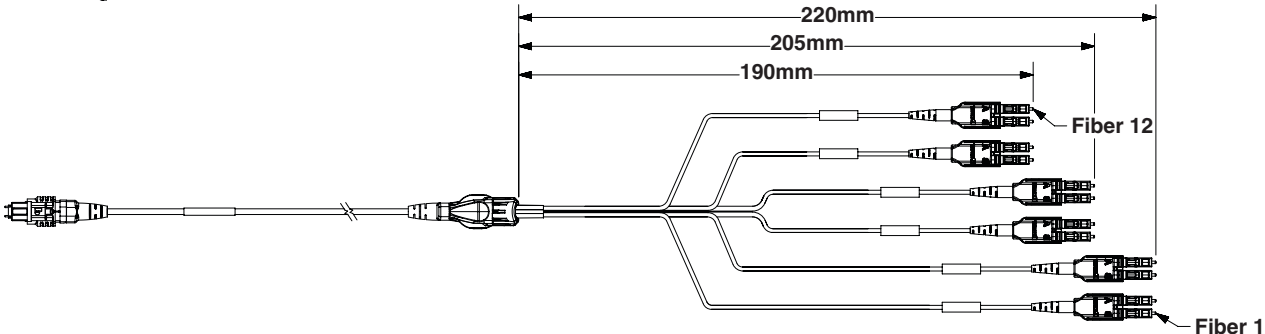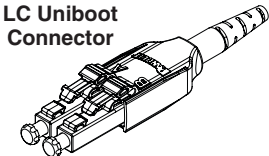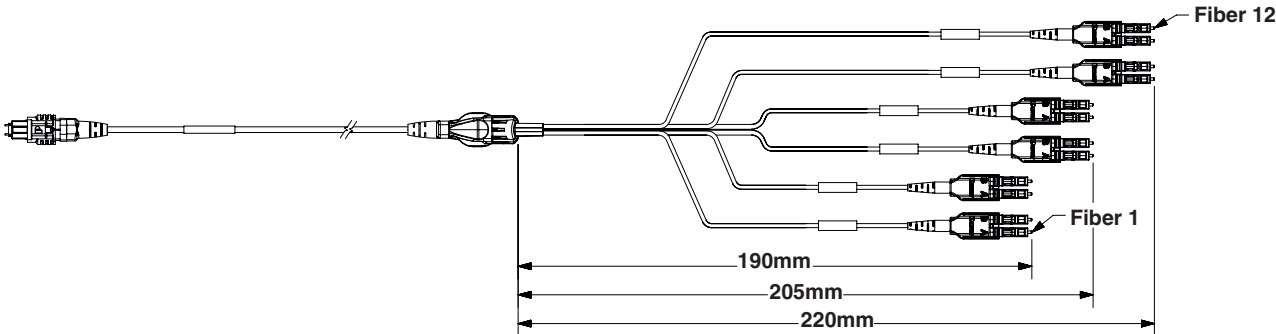
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staggered harness assembly detail

Harness with pair 1 shortest or longest (variant 9, choice G or F)
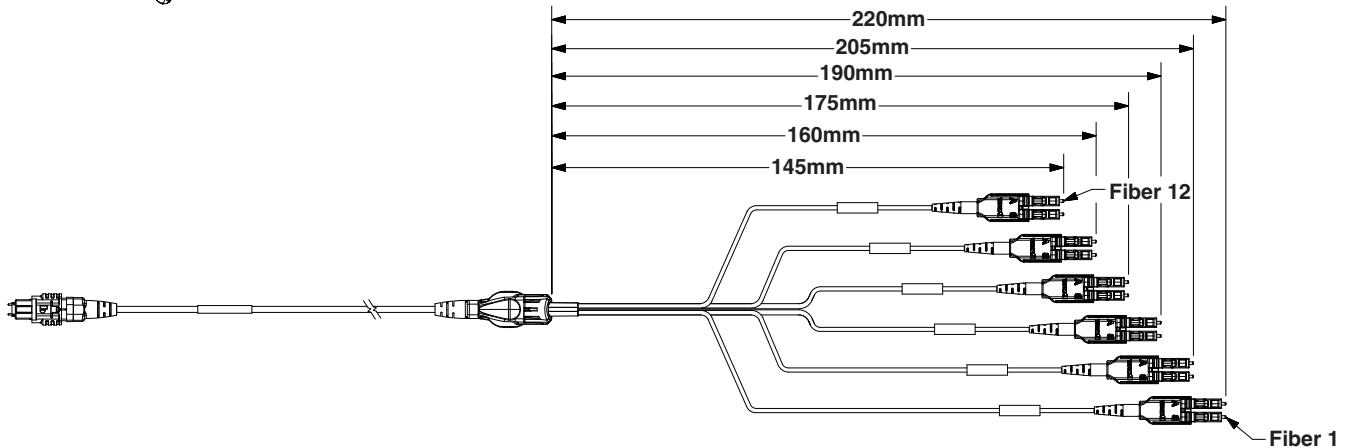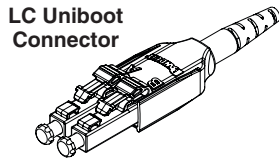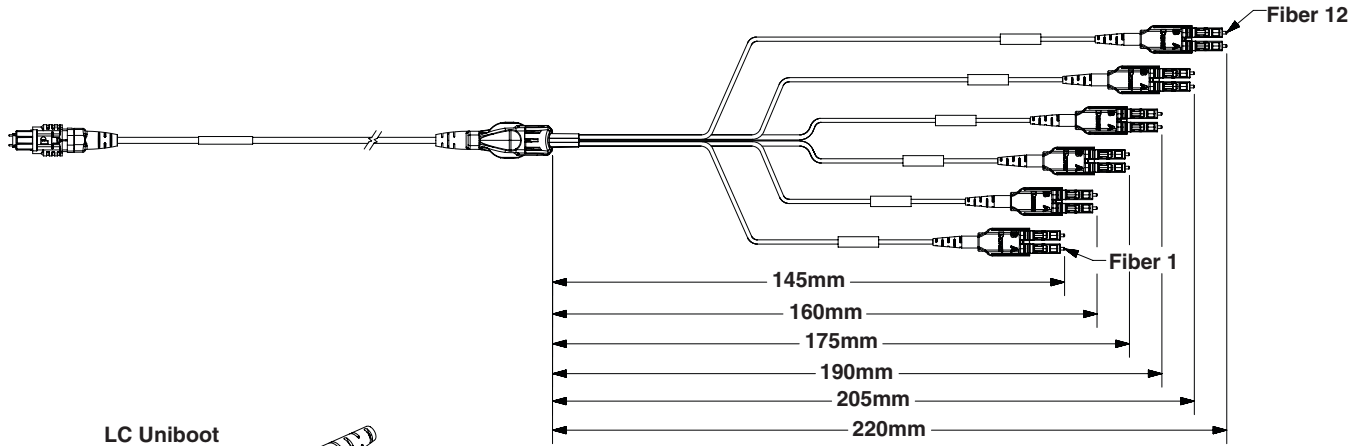
Fiber 12

Fiber 1

145mm
160mm
175mm
190mm
205mm
220mm

LC Uniboot Connector

220mm
205mm
190mm
175mm
160mm
145mm

Fiber 12

Fiber 1

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: **cs@panduit.com**
or by phone: **800.777.3300**

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