

Fiber Breakout Conversion, 3xMPO8 no pins to 2xMPO12 no pins, OM4 50/125µm Multimode, OFNR Jacket, Aqua, 3 meter



MPF308-MPF212OM4R-3

Features

- Optimized for fiber count conversions and redistributions
- Converts 120G to 3x40G & 300G to 3x100G
- Clean QSFP alignmet
- No fiber loss
- OM4 50/125µm Multimode
- OFNR rated jacket

Applications

- Structured cabling upgrades
- MPO standard normalization

Description

The MPF308-MPF212OM4R-3 from L-com is a breakout conversion cable that comes with a 3xMPO8 (no pins) to 2xMPO12 (no pins) connector configuration. This aqua blue fiber optic cable with 24 fibers features an OFNR-rated PVC jacket and has maximum insertion loss of 0.75 dB. Our conversion cable is available in a length of 3 meters and is suitable for applications such as structured cabling upgrades and MPO standard normalization.

Our MPO (w/o pins) female to MPO (w/o pins) female conversion cable comes with a multimode OM4 fiber and has a fiber diameter of 50/125 µm. L-com's MPO connectors are fully compatible with US Conec MTP products. With an operating temperature range of -40 to 75 degrees C, this fiber optic cable assembly provides reliable performance across diverse conditions.

L-com's MPF308-MPF212OM4R-3 fiber optic conversion cable has a cable diameter of 3.8 mm and a breakout diameter of 3 mm. Our fiber optic cable assembly can be customized in different lengths to fit specific installation needs, ensuring efficient network management in high-density setups without compromising delivery time or quality. Additional dimensions, specifications, and CAD drawings for this MPF308-MPF212OM4R-3 breakout conversion cable can be found on its downloadable PDF datasheet.

L-com has one of the largest in-stock selections of fiber optic cable assemblies for international and domestic orders. Make your online purchase right now to take advantage of our same-business-day shipping. We are committed to delivering excellent service to support our customers in maintaining the continuity and reliability of their networks. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal multimode OM4 fiber optic conversion cable for your requirements.

Configuration

Function	Breakout Conversion
Cable Type	Base-24 Multimode
Mode	Multimode
Mode Class	OM4
Fiber Diameter	50/125 µm
Connection 1 Type	MPO (w/o pins)
Connection 1 Gender	Female
Connection 1 Polish	UPC
Connection 2 Type	MPO (w/o pins)
Connection 2 Gender	Female
Connection 2 Polish	UPC
Cable Color	Aqua Blue

Optical Specifications

Description	Minimum	Typical	Maximum	Units
Return Loss - MPO	20			dB

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Optical Specifications

Description	Minimum	Typical	Maximum	Units
Insertion Loss - MPO			0.75	dB

Mechanical Specifications

Cable Assembly

Length	3 m [118.11 in]
Width/Diameter	3.8 mm

Cable

Cable Type	Breakout Conversion
Polarity	TYPE B
Breakout Diameter	3 mm
Static Bend Radius	38 mm
Dynamic Bend Radius	76 mm
Max Crush Resistance, Short Term (N/100mm)	500
Max Crush Resistance, Long Term (N/100mm)	100

Connectors

Description	Connector 1	Connector 2
Type	MPO (w/o pins) Female	MPO (w/o pins) Female
Configuration	Straight	
Connector Polish	UPC	UPC

Environmental Specifications

Operating Range Temperature	-40 to +75 deg C
Storage Range Temperature	-40 to +85 deg C
Ingress Protection (IP) Rating	Non-Rated

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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MPF308-MPF212OM4R-3

Typical Performance Data

How to Order

Part Number Configuration:

MPF308-MPF212OM4R

-XX

UU

Unit of Measure:

F = Feet

<blank> = Meters

Lengths

Base Number

Example: MPF308-MPF212OM4R-12 = 12 meters long cable
MPF308-MPF212OM4R-10F = 10 feet long cable

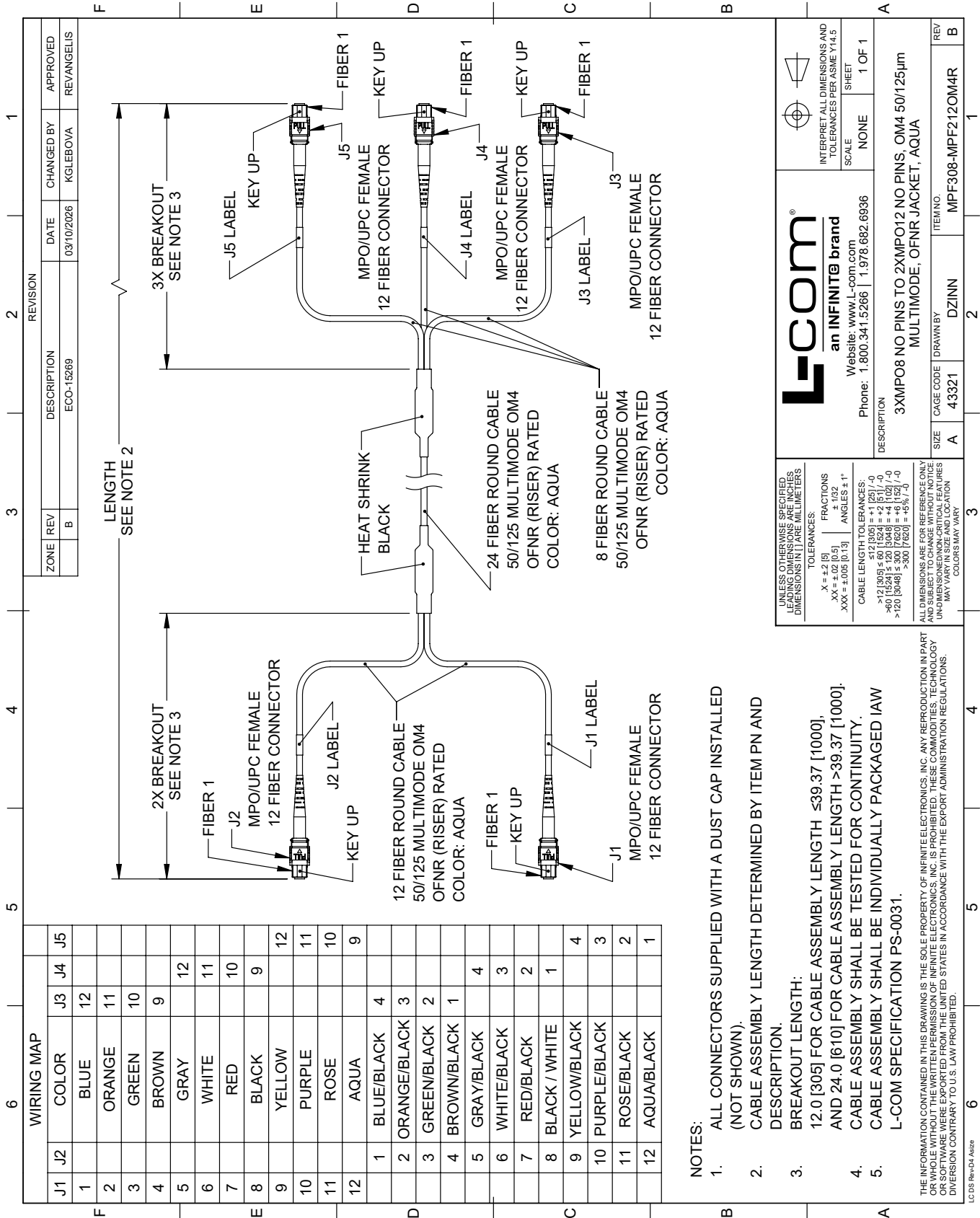
Fiber Breakout Conversion, 3xMPO8 no pins to 2xMPO12 no pins, OM4 50/125µm Multimode, OFNR Jacket, Aqua, 3 meter from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/fiber-optic-3xmpo8-no-pins-to-2xmpo12-no-pins-om4-50-125um-multimode-onfr-jacket-aqua-3-meter>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

MPF308-MPF2120M4R-3 CAD Drawing

Fiber Breakout Conversion, 3xMPO8 no pins to 2xMPO12 no pins, OM4 50/125µm Multimode, OFNR Jacket, Aqua, 3 meter



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
B	B	ECO-15269	03/10/2026	KGLEBOVA	REVANGELIS

WIRING MAP					
J1	J2	J3	J4	J5	
1	BLUE	12			
2	ORANGE	11			
3	GREEN	10			
4	BROWN	9			
5	GRAY	12			
6	WHITE	11			
7	RED	10			
8	BLACK	9			
9	YELLOW	12			
10	PURPLE	11			
11	ROSE	10			
12	AQUA	9			

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	DZINN	MPF308-MPF2120M4R

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

TOLERANCES: X = ±.2 (5) FRACTIONS ±.132 ±.005 (0.13) ANGLES ± 1°

CABLE LENGTH TOLERANCES: >12 (305) ≤ 60 (1524) = ±.125 (-0, +.125) / -0 >60 (1524) ≤ 120 (3048) = ±.125 (-0, +.125) / -0 >120 (3048) ≤ 300 (7620) = ±.125 (-0, +.125) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

REVISION

DESCRIPTION ECO-15269

DATE 03/10/2026

CHANGED BY KGLEBOVA

APPROVED REVANGELIS

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LC 05 Rev-D4 Asize

3X BREAKOUT SEE NOTE 3

2X BREAKOUT SEE NOTE 3

LENGTH SEE NOTE 2

J5 LABEL KEY UP FIBER 1

MPO/UPC FEMALE 12 FIBER CONNECTOR

J4 LABEL KEY UP FIBER 1

MPO/UPC FEMALE 12 FIBER CONNECTOR

J3 LABEL KEY UP FIBER 1

MPO/UPC FEMALE 12 FIBER CONNECTOR

HEAT SHRINK BLACK

24 FIBER ROUND CABLE 50/125 MULTIMODE OM4 OFNR (RISER) RATED COLOR: AQUA

8 FIBER ROUND CABLE 50/125 MULTIMODE OM4 OFNR (RISER) RATED COLOR: AQUA

J2 LABEL KEY UP FIBER 1

MPO/UPC FEMALE 12 FIBER CONNECTOR

J1 LABEL KEY UP FIBER 1

MPO/UPC FEMALE 12 FIBER CONNECTOR

1. ALL CONNECTORS SUPPLIED WITH A DUST CAP INSTALLED (NOT SHOWN).

2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

3. BREAKOUT LENGTH: 12.0 (305) FOR CABLE ASSEMBLY LENGTH ≤ 39.37 (1000), AND 24.0 (610) FOR CABLE ASSEMBLY LENGTH > 39.37 (1000).

4. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

5. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED IAW L-COM SPECIFICATION PS-0031.

L-com
an INFINITE brand
Website: www.L-com.com
Phone: 1.800.341.5266 | 1.978.682.6936

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

DESCRIPTION 3XMPO8 NO PINS TO 2XMPO12 NO PINS, OM4 50/125µm MULTIMODE, OFNR JACKET, AQUA

SIZE A

CAGE CODE 43321

DRAWN BY DZINN

ITEM NO. MPF308-MPF2120M4R

REV B