

# MPO/MPO 250µm uDist Interconnect 3.0mm OFNP - 8F, 12F

## DESCRIPTION

The 250µm uDist Interconnect 3.0mm OFNP trunks deliver compact MPO-to-MPO connectivity for high-density interconnect and equipment-link applications. Built with ultra-low-diameter interconnect-grade fibers, these lightweight trunks provide excellent routing flexibility while maintaining robust optical performance. Available in 8-, and 12-fiber configurations, these trunks are engineered for environments requiring efficient, space-saving cabling and reliable parallel-optics functionality.

## APPLICATION

Optimized for short-reach backbone links, cabinet-to-cabinet connectivity, and structured patching environments, these interconnect trunks simplify installation in overhead trays, vertical racks, and tight equipment spaces. Their slim 3.0mm profile improves airflow and cable organization while supporting high-density network architectures. Each assembly is fully configurable with Family, Connector A, Connector B, Polarity, Cable Type, Fiber Count, Fiber Type, Break-Out A, Break-Out B, Options, Length, and Unit of Measurement.

Construction	
Cable Type	(37) 250µm uDist Interconnect 3.0mm OFNP (8F, 12F)
Cable Jacket Rating	Optical Fiber Non-Conductive Plenum (OFNP)
Fiber Type	OS2
	OM1
	OM3
	OM4
	OM5
Connector Types	MPO-12 OM1, Pinned or Non-Pinned, Beige
	MPO-12 OS2, Pinned or Non-Pinned, Blue
	MPO-12 OS2 APC, Pinned or Non-Pinned, Green
	MPO-12 OM3, Pinned or Non-Pinned, Aqua
	MPO-12 OM4, Pinned or Non-Pinned, Aqua
	MPO-12 OM5, Pinned or Non-Pinned, Lime
Fiber Count	8 Fiber
	12 Fiber
Jacket color	Yellow (OS2)
	Orange (OM1)
	Aqua (OM3/OM4)
	Lime (OM5)

Physical Properties	
Cable Construction	
Microarray Data Center Interconnect 3.0mm	
Fiber	8/12 primary coated fibers nominally 250µm
Sub-Unit	Ø 3.0 mm
Sub-Unit Jacket Material	PVC
Cable Strength Member	Glass Reinforced Plastic (GRP) (OPTIONAL)
Cable	3 mm loose tube containing 250 µm optical fibers and dielectric aramid yarns, enclosed in an overjacket
Cable Jacket Material	PVC
	Optical Fiber Non-Conductive Plenum (OFNP)
Sheath Colors (Munsell)	OS2: Yellow, 5Y 8.5/12
	OM1: Orange, 8.75R 6/12
	OM3/OM4: Aqua, 10BG 7/6
	OM5: Lime-Green, 5.5GY 8.5/10

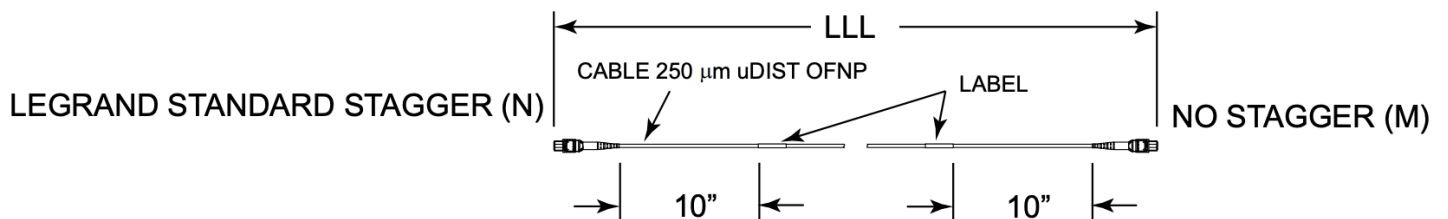
Physical Properties	
Cable Outside Diameter	0.12" (3mm) [8, 12 fiber]
Minimum Bend Radius	Long Term: 1.2" (30mm)   Install: 1.8" (47mm) [8, 12 fiber]
Cable Tensile Strength	Long Term: 25lbs (110N)   Install: 80lbs (370N) [8, 12 fiber]
Connector Durability	IAW TIA-568.3-E and the max IL of 0.3dB at 200 cycles
Breakout Outside Diameter	NONE
Breakout Length	NONE

Optical Properties			
Maximum Cable Attenuation	Single-mode: 0.4dB @ 1310nm & 0.3dB @ 1550nm		
	OM1: 3.0dB @ 850nm & 1.5dB @ 1300nm		
	OM3: 3.0dB @ 850nm & 1.0dB @ 1300nm		
	OM4: 3.0dB @ 850nm & 1.0dB @ 1300nm		
	OM5: 3.0dB @ 850nm & 1.0dB @ 1300nm		
Connector Insertion Loss		<b>Core (Tier 1)</b>	<b>Ultra (Tier 3)</b>
	Single-mode APC	Typical: 0.3dB Maximum: 0.75dB	Typical: 0.3dB Maximum: 0.35dB
	Multimode UPC	Typical: 0.3dB Maximum: 0.75dB	Typical: 0.3dB Maximum: 0.35dB
Maximum Connector Return Loss		<b>Core (Tier 1)</b>	<b>Ultra (Tier 3)</b>
	Single-mode APC	55dB	55dB
	Multimode UPC	20dB	20dB

Environmental Properties	
Operating Temp	0°C to 70°C (32°F -158°F)
Storage and Shipping Temp	-40°C to 70°C (-40°F -158°F)
Installation Temp	0°C to 60°C (32°F -140°F)

Standards	
List of Standards	UL 1651
	CSA C22.2 No. 232
	NFPA 262
	Telcordia® GR-409-CORE, Issue 1 and Issue 2
	ANSI/ICEA S-83-596
	ANSI/TIA-568.3-E

### 8-12 STRANDS



## Configuration Fields

Example P.N.    C    47    47    B    37    0    7    E    M    M    Y    001    M

					0								
1	2	3	4	5	6	7	8	9	10	11	12		

Description: CORE, MPO, MPO, Type B, uDist OFNP 3.0mm, 12F, OM4, No Stagger, No Stagger, No Pulling-Eye, 001M

<b>1</b>	<b>Family</b>	<b>5</b>	<b>Cable Type</b>
<b>C</b>	Core	<b>37</b>	250µm uDist Interconnect 3.0mm OFNP (12F, 24F)
<b>U</b>	Ultra	<b>6</b>	<b>Fiber Count</b>
<b>2</b>	<b>Connector A</b>	<b>5</b>	008F
<b>46</b>	MPO-12 MM Pinned	<b>7</b>	012F
<b>47</b>	MPO-12 MM Non-Pinned	<b>7</b>	<b>Fiber Type</b>
<b>62</b>	MPO-12 SM Pinned	<b>J</b>	OS2 G.657.A1 (9/125µm)
<b>63</b>	MPO-12 SM Non-Pinned	<b>A</b>	OM1 (62.5/125µm)
<b>83</b>	MPO-12 PRO MM Pinned Elite	<b>D</b>	OM3 (50/125µm)
<b>84</b>	MPO-12 PRO MM Non-Pinned Elite	<b>E</b>	OM4 (50/125µm)
<b>85</b>	MPO-12 PRO SM Pinned Elite	<b>H</b>	OM5 (50/125µm)
<b>86</b>	MPO-12 PRO SM Non-Pinned Elite	<b>8</b>	<b>Breakout A</b>
<b>1A</b>	MPO-12 MM Pinned APC Down Angle	<b>M</b>	MPO No Stagger
<b>1E</b>	MPO-12 MM Non-Pinned APC Down Angle	<b>N</b>	MPO STD Legrand Stagger
<b>3</b>	<b>Connector B</b>	<b>9</b>	<b>Breakout B</b>
<b>46</b>	MPO-12 MM Pinned	<b>M</b>	MPO No Stagger
<b>47</b>	MPO-12 MM Non-Pinned	<b>N</b>	MPO STD Legrand Stagger
<b>62</b>	MPO-12 SM Pinned	<b>10</b>	<b>Options</b>
<b>63</b>	MPO-12 SM Non-Pinned	<b>Y</b>	Manufacturing Specification, No Pulling-Eye, Standard Label
<b>83</b>	MPO-12 PRO MM Pinned Elite	<b>11</b>	<b>Length</b>
<b>84</b>	MPO-12 PRO MM Non-Pinned Elite	<b>000</b>	3-digit length
<b>85</b>	MPO-12 PRO SM Pinned Elite	<b>12</b>	<b>Unit of Measure</b>
<b>86</b>	MPO-12 PRO SM Non-Pinned Elite	<b>M</b>	Meters
<b>1A</b>	MPO-12 MM Pinned APC Down Angle	<b>F</b>	Feet
<b>1E</b>	MPO-12 MM Non-Pinned APC Down Angle		
<b>4</b>	<b>Polarity</b>		
<b>A</b>	MPO/MPO Type A:1-1, 12F, (MPO Standard)		
<b>B</b>	MPO/MPO Type B:1-1, 12F, Physically Flipped		
<b>C</b>	MPO/MPO Type C:1-1, 12F, Reverse Fiber		

To learn more visit  
**legrand.us**

©2025 Legrand. All rights reserved. The industry-leading brands of Approved Networks, Ortronics, Raritan, Server Technology, and Starline empower Legrand's Data, Power & Control to produce innovative solutions for data centers, building networks, and facility infrastructures. Our division designs, manufactures, and markets world-class products for a more productive and sustainable future. The exceptional reliability of our technologies results from decades of proven performance and a dedication to research and development. V2296

**Data Infrastructure**  
800.934.5432  
legrand.us

