



# OM3/OM4

## FIBER CABLING SYSTEM

### About nCompass

nCompass is an innovative product offering of structured cabling solutions created by Legrand and Superior Essex.

Understanding your communications challenges allows us to offer you multiple, high-performing fiber optic and copper cabling solutions.

nCompass provides you with support, reliability, flexibility, and energy efficient solutions that exceed industry standards and are backed by an extended warranty.

This nCompass™ fiber solution combines Superior Essex TeraGain® 50 micron OM3/OM4 and TeraFlex® 50 micron OM3/OM4 bend insensitive multimode fiber cabling with Ortronics standard, high and ultra high density fiber connectivity to deliver guaranteed 10 Gigabit Ethernet performance beyond standard distances. The high speed performance of this solution supports advanced network requirements for use in data centers/storage area networks, horizontal, backbone and campus environments.

### System Benefits

- Performance guarantee beyond the IEEE and Fibre Channel distance limitations for standard multimode optical fiber cable
- Premium performance (low loss) cassettes, backbone cables and patch cords enable additional connections and/or greater link length
- Pre-terminated trunk cable assemblies deliver enhanced optical performance and fast deployment
- Backed by a Limited Lifetime Warranty

# OM3/OM4

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Ortronics® OptiMo® Ultra High Density (UHD) Fiber System			
Description	Capacity	Height	Part Number
UHD 1U Rack Mount Enclosure, Long	12 Modules	1RU	OR-UC01U-P
UHD 1U Rack Mount Enclosure, Short	12 Modules	1RU	OR-UC01U-A
UHD M6 Momentum Cassette, MTP-LC Quad, OM4+, Tier 3	12 LC	0.3RU	OR-M6LCQ12-50E
UHD 4-MPO Adapter Module - LOMF	4 MPO	0.3RU	OR-UHDFP-MPA48LA



OR-UC01U-P

Ortronics OptiMo High Density (HD) Fiber System			
Description	Capacity	Height	Part Number
HD 1U Rack Mount Enclosure	4 Modules	1RU	OR-FC01U-M
HD 2U Rack Mount Enclosure	8 Modules	2RU	OR-FC02U-M
HD 4U Rack Mount Enclosure	16 Modules	4RU	OR-FC04U-M
HD M4 Momentum Cassette MTP-LC Quad, OM4+, Tier 3	12 LC	1RU	OR-M4LCQ24-50EA3A1
HD MPO Adapter Panel Aqua, Type A	6 MPO	1RU	OR-HDFP-MPA72LA
HD LC Adapter Panel, Ceramic Sleeve, Aqua Adapters	24 LC	1RU	OR-HDFP-LCQ24LC
HD Blank Panel	-	1RU	OR-HDFP-BLANK



OR-FC04U-M



OR-OFP-HDFP-MPA72LA

Ortronics OptiMo Standard Density (SD) Fiber System			
Description	Capacity	Height	Part Number
SD 1U Rack Mount Enclosure	3 Modules	1RU	OR-FC01U-C
SD 2U Rack Mount Enclosure	6 Modules	2RU	OR-FC02U-C
SD 4U Rack Mount Enclosure	12 Modules	4RU	OR-FC04U-C
SD M2 Momentum Cassette MTP-LC Quad, OM4+, Premium Performance	24 LC	1RU	OR-M2LCQ24-50E3A1
SD M2 Momentum Cassette MTP-LC Quad, OM4+, Standard Performance	24 LC	1RU	OR-M2LCQ24-50E
SD M2 Momentum Cassette MTP-LC Duplex, OM4+, Standard Performance	12 LC	1RU	OR-M2LCD12-50E
SD 8-MPO Adapter Panel Aqua, Type A	8 MPO	1RU	OR-OFP-MPA96LA
SD 6-MPO Adapter Panel Aqua, Type A	6 MPO	1RU	OR-OFP-MPA72LA
SD LC Adapter Panel, Ceramic Sleeve, Aqua Adapters	24 LC	1RU	OR-OFP-LCQ24LC
SD LC Adapter Panel, Ceramic Sleeve, Aqua Adapters	12 LC	1RU	OR-OFP-LCD12LC
SD Blank Panel	-	1RU	OR-OFP-BLANK



OR-FC01U-C

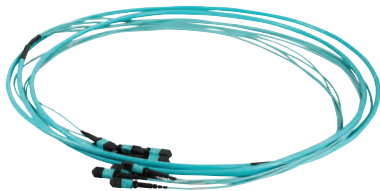


OR-OFP-LCD12LC

Ortronics Rack Mount Fiber Enclosure Density Capabilities			
Density	Number of LC Ports in 1RU	Number of MPOs in 1RU	Number of Fibers Using 12F MPO in 1RU
Standard Density	72	24	288
High Density	96	24	288
Ultra High Density	144	48	576



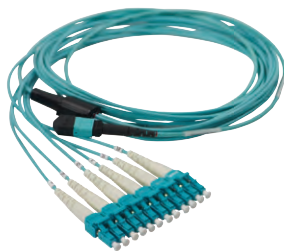
OR-TADPLIFGAGAXXXM



OR-TADPLKFGAGAXXXM



OR-HC02U-P



OR-H3TFMNNZ1MPZ01M

### Ortronics® Pre-Terminated Fiber Trunk Cables

Microdistribution Loose Tube Cable, Premium Low-Loss MTP(F) to MTP(F) Plenum	Fiber Type	Recommended Length 10G (Max)	Part Number
12 Strand	OM4	550 meters	OR-TADPLFGZAZAxxxM
24 Strand	OM4	550 meters	OR-TADPLIGGAGAXxxM
48 Strand	OM4	550 meters	OR-TADPLKGGAGAXxxM
12 Strand	OM3	300 meters	OR-TADPLFFZAZAxxxM
24 Strand	OM3	300 meters	OR-TADPLIFGAGAXxxM
48 Strand	OM3	300 meters	OR-TADPLKFGAGAXxxM

Microdistribution Loose Tube Cable, Premium Low-Loss MTP(F) to MTP(F) Riser	Fiber Type	Recommended Length 10G (Max)	Part Number
12 Strand	OM4	550 meters	OR-TADRLFGZAZAxxxM
24 Strand	OM4	550 meters	OR-TADRLIGGAGAXxxM
48 Strand	OM4	550 meters	OR-TADRLKGGAGAXxxM
12 Strand	OM3	300 meters	OR-TADRLFFZAZAxxxM
24 Strand	OM3	300 meters	OR-TADRLIFGAGAXxxM
48 Strand	OM3	300 meters	OR-TADRLKFGAGAXxxM

Single Loose Tube Indoor/Outdoor MTP(F) to MTP(F) Riser	Fiber Type	Recommended Length 10G (Max)	Part Number
12 Strand	OM4	550 meters	OR-TAERHFGGAGAXxxM
48 Strand	OM4	550 meters	OR-TAERHKGAGAXxxM
96 Strand	OM4	550 meters	OR-TAERHOGGAGAXxxM
12 Strand	OM3	300 meters	OR-TAERHFFGAGAXxxM
48 Strand	OM3	300 meters	OR-TAERHKFGAGAXxxM
96 Strand	OM3	300 meters	OR-TAERHOFGAGAXxxM

\*Representative fiber counts (Please ask your Ortronics representative to immediately configure your exact pre-terminated cable requirements with our online cable configurator tool).

xxx = length in meters.

### Ortronics HiLOC Integrated Harness Systems

Description	Capacity	Height	Part Number
Rack mount 2U enclosure, holds 24 HiLOC shells	24 HiLOC	2RU	OR-HC02U-P
HiLOC multi-use panel, holds 4 HiLOC shells	4 HiLOC	0RU	OR-60401144
MTP(M) to LC HiLOC Harness, OM4, Plenum, Reconfigurable LC Connectors, No Stagger	12 LC	-	OR-H3TFMNNZxMPZxxM

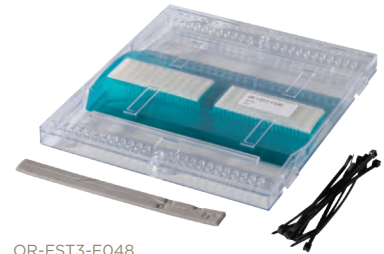
Please ask your Ortronics representative to immediately configure your exact pre-terminated HiLOC Harness requirements with our online configurator.

# OM3/OM4

## FIBER CABLING SYSTEM

### Ortronics® Workstation Systems

Description	Color	Part Number
<b>Fib-or-Cop II</b>		
Base and Cover for Three Series II Modules 5" x 8" x 1.19"	Fog White	OR-62100040
Base and Cover for Six Series II Modules 5" x 8" x 1.19"	Fog White	OR-62100041
4 - LC Quad (16 Fibers) 50 Micron LOMF Adapters, Ceramic Sleeve	Aqua Adapters	OR-62100054
<b>TracJack Modules</b>		
1 - LC Duplex Multimode, 180° Exit, Flush, 1 Unit, Fog White	Aqua Adapters	OR-63700075
1 - LC Duplex Multimode, 45° Angled Exit, Flush, 2 Units, Fog White	Aqua Adapters	OR-63700080



OR-FST3-F048



OR-FST2-F012

### Ortronics Fusion Splice Accessories

Description	Part Number
48 Fiber Splice Tray, Use 2.5mm Splice Protector Sleeves	OR-FST3-F048
2.5mm Splice Protector Sleeves, Pack of 50, 40mm Long	OR-20500337
12 Fiber Splice Tray, Use 3.0mm Splice Protector Sleeves	OR-FST2-F012
3.0mm Splice Protector Sleeves, Pack of 50, 40mm Long	OR-20500043

### Ortronics Patch Cords

Description	Polarity	Fiber	Connectors	Part Number
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	Configurable	OM4	Reconfigurable LC (RLC) - RLC	OR-P3DG6LPWZWZxxxM
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	Configurable	OM3	RLC - RLC	OR-P3DF6LPWZWZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	Configurable	OM4	RLC - RLC	OR-P1DG6LPWZWZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	Configurable	OM3	RLC - RLC	OR-P1DF6LPWZWZxxxM
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	A-B	OM4	Duplex LC - Duplex LC	OR-P3DG6LPAZAZxxxM
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	A-A	OM4	Duplex LC - Duplex LC	OR-P3RG6LPAZAZxxxM
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	A-B	OM3	Duplex LC - Duplex LC	OR-P3DF6LPAZAZxxxM
Premium Performance SpaceSaver Cord, 0.15dB Max, 2.4mm Round	A-A	OM3	Duplex LC - Duplex LC	OR-P3RF6LPAZAZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	A-B	OM4	Duplex LC - Duplex LC	OR-P1DG6LPAZAZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	A-A	OM4	Duplex LC - Duplex LC	OR-P1RG6LPAZAZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	A-B	OM3	Duplex LC - Duplex LC	OR-P1DF6LPAZAZxxxM
SpaceSaver Cord, 0.5dB Max, 2.4mm Round	A-A	OM3	Duplex LC - Duplex LC	OR-P1RF6LPAZAZxxxM
Premium Performance 2mm Zip Cord, 0.15dB Max	Configurable	OM4	LC - LC	OR-P3DG2LRGZGZxxxM
Premium Performance 2mm Zip Cord, 0.15dB Max	Configurable	OM3	LC - LC	OR-P3DF2LRGZGZxxxM
2mm Zip Cord, 0.5dB Max	Configurable	OM4	LC - LC	OR-P1DG2LRGZGZxxxM
2mm Zip Cord, 0.5dB Max	Configurable	OM3	LC - LC	OR-P1DF2LRGZGZxxxM

xxx = length in meters.

### Comparison of Industry Standard vs. Superior Essex TeraGain and TeraFlex MMF

	1 Gbps Link <sup>1</sup> (m)	Performance Advantage	10 Gbps Link <sup>1</sup> (m)	Performance Advantage
Standard 50/125	500	-	82	-
TeraGain 10G/300	1,000	100%	300	265%
TeraGain 10G/550	1,040	108%	550	570%

<sup>1</sup>At 850 nm

### Optical Fiber Cable Performance

	TeraGain and TeraFlex Laser Optimized 50/125			
	10G/300 (OM3)		10G/550 (OM4)	
Wavelength (nm)	850	1300	850	1300
Maximum Attenuation (dB/km)	3.5	1.5	3.5	1.5
Typical Attenuation (dB/km)	3.0	1.0	3.0	1.0
Minimum Bandwidth: Overfilled Launch <sup>2</sup> (MHz-km)	1,500	500	3,500	500
Minimum Bandwidth: Laser EMB <sup>3</sup> (MHz-km)	2,000	500	4,700	500
Guaranteed Supportable Ethernet Distances (m)				
10 Mbps Ethernet	1,250	-	1,250	-
100 Mbps Ethernet	1,000	2,000	1,000	2,000
1 Gbps Ethernet	1,000	600	1,040	600
10 Gbps Ethernet	300	300	550	300
40 Gbps Ethernet	100	100	150	100
100 Gbps Ethernet	100	100	150	100

<sup>2</sup>Overfilled Launch Bandwidth measured per TIA-455-204-2000.

<sup>3</sup>Effective Modal Bandwidth (EMB) measured per TIA-455-220-A.



### Superior Essex Simplex, Duplex and Quad Interconnect Cables

Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	33001xG01	Round	1
OFNR	A3001xG01	Round	1
OFNR	B3002xG01	Zip	2
OFNR	C3002xG01	Zip	2
OFNR	33***xG01	Round	2, 4
OFNP	34001xG01	Round	1
OFNP	A4001xG01	Round	1
OFNP	B4002xG01	Zip	2
OFNP	C4002xG01	Zip	2
OFNP	34***xG01	Round	2, 4



### Superior Essex Microarray Cables

Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	P3012xG01	Interconnect	12
OFNR	P3024xGA1	Interconnect	24
OFNR	P3024xGB1	Breakout	24
OFNR	P3***xG01	Breakout	48, 72
OFNP	P4012xG01	Interconnect	12
OFNP	P4024xGA1	Interconnect	24
OFNP	P4024xGB1	Breakout	24
OFNP	P4***xG01	Breakout	48, 72



### Superior Essex Distribution Cables

Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	43***xG01	Single Unit	6, 8, 12
OFNR	43***xK01	Single Unit	18, 24
OFNR	43***xG01	Multi-Unit	18 - 144
OFNP	44***xG01	Single Unit	6, 8, 12
OFNP	44***xK01	Single Unit	18, 24
OFNP	44***xG01	Multi-Unit	18 - 144

### <sup>1</sup>OM3/OM4 Optical Fiber Types

	TeraGain Laser Optimized 50/125		TeraFlex Bend Resistant Laser Optimized 50/125	
	10G/300 (OM3)	10G/550 (OM4)	10G/300 (OM3)	10G/550 (OM4)

<sup>1</sup>Replace "x" with:

B      F      N      P

<sup>1</sup>Where \*\*\* = fiber count (001, 002, 004, 006, 008, 012, 018, 024, 030, 036, 048, 060, 072, 096, 144)