



# OS1/OS2

## 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 Reduced Water Peak and TeraFlex® bend insensitive single mode fiber cabling with Ortronics standard, high and ultra high density fiber connectivity to deliver guaranteed performance for Gigabit Ethernet, 10 Gigabit Ethernet and 40/100 Gigabit Ethernet. nCompass OS1/OS2 supports advanced network requirements used in data centers/storage area networks, backbone and campus environments.

### System Benefits

- Performance guarantee beyond the IEEE and Fibre Channel requirements for standard single-mode optical fiber cable
- Pre-terminated trunk cable assemblies deliver enhanced optical performance and fast deployment
- Backed by a Limited Lifetime Warranty

OS1/OS2 SMF Performance				
Wavelength (nm)		1310	1383	1550
Maximum Attenuation (dB/km)	Tight Buffer	0.70	0.70	0.70
	Loose Tube	0.40	-	0.40
Typical Attenuation (dB/km)		0.41	0.41	0.41

OS1/OS2 SMF Performance (Max Length)				
Wavelength (nm)		1310	1550	
Guaranteed Supportable Ethernet	10 Gbps	25	40 - 80	
	40 Gbps	-	10	
Distances (km)		100 Gbps	-	10 - 40

# OS1/OS2

## FIBER CABLING SYSTEM

### 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, OS2	12 LC	0.3RU	OR-M6LCQ12-09
UHD 4-MPO Adapter Module - OS2	4 MPO	0.3RU	OR-UHDFP-MPA48CA



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, OS2	12 LC	1RU	OR-M4LCQ24-09
HD MPO Adapter Panel Green Type A	6 MPO	1RU	OR-HDFP-MPA72CA
HD LC Adapter Panel, Ceramic Sleeve, Blue Adapters	24 LC	1RU	OR-HDFP-LCQ24AC
HD Blank Panel	-	1RU	OR-HDFP-BLANK



OR-FC04U-M

### 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, OS2	24 LC	1RU	OR-M2LCQ24-09
SD M2 Momentum Cassette MTP-LC Duplex, OS2	12 LC	1RU	OR-M2LCD12-09
SD 8-MPO Adapter Panel Green, Type A	8 MPO	1RU	OR-OFP-MPA96CA
SD 6-MPO Adapter Panel Green Type A	6 MPO	1RU	OR-OFP-MPA72CA
SD LC Adapter Panel, Ceramic Sleeve, Blue Adapters	24 LC	1RU	OR-OFP-LCQ24AC
SD LC Adapter Panel, Ceramic Sleeve, Blue Adapters	12 LC	1RU	OR-OFP-LCD12AC
SD Blank Panel	-	1RU	OR-OFP-BLANK



OR-OFP-MPA96C



OR-FC01U-C



OR-OFP-LCQ24AC

### 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

### Ortronics Patch Cords

Description	Polarity	Fiber	Connectors	Part Number
SpaceSaver Cord, 0.3dB Max, 2.4mm Round	Configurable	OS1	Reconfigurable LC RLC - RLC, UPC	OR-P1DC6IPPZPZxxxM
SpaceSaver Cord, 0.3dB max, 2.4mm Round	A-B	OS1	Duplex LC - Duplex LC, UPC	OR-P1DC6LPUZUZxxxM
SpaceSaver Cord, 0.3dB max, 2.4mm Round	A-A	OS2	Duplex LC - Duplex LC, UPC	OR-P1RG6LPUZUZxxxM
2mm Zip Cord, 0.3dB Max	Configurable	OS1	LC - LC, UPC	OR-P1DC2IRSZSZxxxM



OR-TADPIKCGIGIXXXM

### Ortronics® Pre-Terminated Fiber Trunk Cables

Microdistribution Loose Tube Cable, Premium Low-Loss MTP(F) to MTP(F) Plenum	Fiber Type	Part Number
12 Strand	OS2	OR-TADPIFJZIZlxxxM
24 Strand	OS2	OR-TADPIIJGIGlxxxM
48 Strand	OS2	OR-TADPIKJGIGlxxxM
Microdistribution Loose Tube Cable, Premium Low-Loss MTP(F) to MTP(F) Riser	Fiber Type	Part Number
12 Strand	OS2	OR-TADRIFJZIZlxxxM
24 Strand	OS2	OR-TADRIIJGIGlxxxM
48 Strand	OS2	OR-TADRIKJGIGlxxxM
Single Loose Tube Indoor/Outdoor MTP(F) to MTP(F) Riser	Fiber Type	Part Number
12 Strand	OS2	OR-TAERHFJGIGlxxxM
48 Strand	OS2	OR-TAERHKJGIGlxxxM
96 Strand	OS2	OR-TAERHOJGIGlxxxM

Please ask your Ortronics Rep to immediately configure your exact pre-terminated cable requirements with our online cable configurator tool.

### 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 to LC HiLOC Harness, OS2, Plenum, Reconfigurable LC Connectors, No Stagger	12 LC	-	OR-H1TCMNNZxMYZxxM

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

### 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 TracJack® modules 5" x 8" x 1.19"	Fog White	OR-62100041
6 - LC Duplex Singlemode, Blue Adapters, Ceramic Alignment Sleeves	Blue Adapters	OR-62100051
<b>TracJack Modules</b>		
1 - LC Duplex Singlemode, 180° exit, Flush, 1 Unit, Fog White	Blue Adapters	OR-63700076
1 - LC Duplex Singlemode, 45° angled exit, Flush, 2 Units, Fog White	Blue Adapters	OR-63700065



OR-62100040

### 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



OR-FST2-F012

# OS1/OS2

## FIBER CABLING SYSTEM



Superior Essex Simplex, Duplex and Quad Interconnect Cables			
Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	33001x101	Round	1
OFNR	A3001x101	Round	1
OFNR	B3002x101	Zip	2
OFNR	C3002x101	Zip	2
OFNR	33***x101	Round	2, 4
OFNP	34001x101	Round	1
OFNP	A4001x101	Round	1
OFNP	B4002x101	Zip	2
OFNP	C4002x101	Zip	2
OFNP	34***x101	Round	2, 4



Superior Essex Microarray Cables			
Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	P3012x101	Interconnect	12
OFNR	P3024x1A1	Interconnect	24
OFNR	P3024x1B1	Breakout	24
OFNR	P3***x101	Breakout	48, 72
OFNP	P4012x101	Interconnect	12
OFNP	P4024x1A1	Interconnect	24
OFNP	P4024x1B1	Breakout	24
OFNP	P4***x101	Breakout	48, 72



Superior Essex Distribution Cables			
Listing	Part Number <sup>1</sup>	Configuration	Fiber Count
OFNR	43***x101	Single Unit	6, 8, 12
OFNR	43***xK01	Single Unit	18, 24
OFNR	43***x101	Multi-Unit	18 - 144
OFNP	44***x101	Single Unit	6, 8, 12
OFNP	44***xK01	Single Unit	18, 24
OFNP	44***x101	Multi-Unit	18 - 144

	Reduced Water Peak	TeraFlex® Bend Resistant		
		G.657.A1	G.657.A2	G.657.B3
<sup>1</sup> Replace "x" with:	3	K	J	L

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