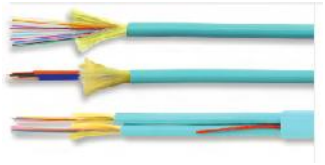
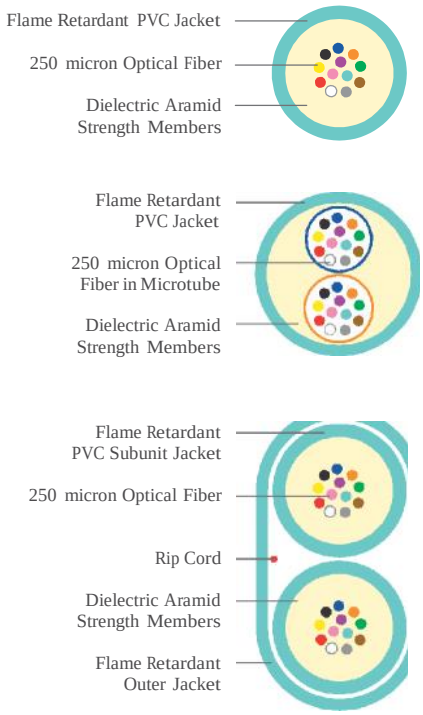
microarray data Center interconnect

OFNR/OFNP





Product Description

The Microarray Data Center Interconnect Cables from Grupo Matel are designed for high performance in a small package. The 12-fiber interconnect has an outside diameter of only 3.0 mm. The 24-fiber single unit employs two, 12-fiber microtubes that are ideal for 24-fiber MTP/MPO array connectors. The 24-fiber duplex contains two, 12-fiber 3.0 mm interconnect cables with an overjacket. The fibers can be fusion spliced, connectorized to high density MTP/MPO mechanical array connectors or attached to standard single ferrule mechanical connectors (LC, SC, ST, etc.) via a furcation kit. The loose fibers are surrounded by aramid yarns and a low smoke PVC (LSPVC) plenum or riser-rated jacket. Its small size allows for denser fiber routing than traditional tight buffered cables; its loose-tube construction gives it superior performance and installation ease compared to ribbon interconnect cable.

Applications

- 10Gb, 40Gb, 100Gb Ethernet and legacy speeds
- Data centers
- High density installations
- MTP/MPO array connectors

Features	Benefits
• 3.0 mm interconnect with twelve 250 micron fibers	• Allows for direct connection to MTP/MPO array connectors
• 3.8 mm interconnect with two, 12-fiber microtubes	• Allows for direct connection to 24-fiber MTP/MPO array connectors
• Meets or exceeds ANSI/ICEA S-83-596 and GR-409-CORE requirements for interconnect cable	• Worry-free installation and performance
• Plenum (OFNP) and riser (OFNR) rated designs	• Fire-listed cables allow placement in plenum and riser spaces
• Available with TeraFlex single mode, and laser-optimized 50/125 micron multimode fiber types	• Build your network with the fiber type that you need now or for the future
• Marked in feet and meters	• Meets commercial and government requirements for length markings
• Designed for MTP/MPO connectors	• Economical plug and play solution

Specifications

12-Fiber Configuration	Twelve 250 micron optical fibers surrounded by dielectric aramid yarns in a 3.0 mm loose tube
24-Fiber Configuration	Two microtubes containing twelve 250 micron optical fibers; the microtubes are surrounded by dielectric aramid yarns and enclosed in a single 3.8 mm loose tube
24-Fiber Duplex Configuration	Two 3.0 mm loose tubes containing twelve 250 micron optical fibers and dielectric aramid yarns; both tubes are enclosed in an overjacket
Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP

Environmental Specifications

	Riser	Plenum
Operation	0°C to +70°C	0°C to +70°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	10°C to +60°C	10°C to +60°C

Part Numbers and Physical Characteristics

Listing	Part Number[1]	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Maximum Tensile Loading Install lbs (N)	Maximum Tensile Loading Long Term lbs (N)	Minimum Bend Radius Install in (mm)	Minimum Bend Radius Long Term in (mm)	Package
OFNR	1P3012xx011	12	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood reel
FNR	1P3024xxA11	24	0.17 x 0.29 (4.4 x 7.5)	22 (33)	150 (668)	25 (110)	6.0 (152)	3.0 (76)	Plywood reel
OFNP	1P4012xx011	12	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood reel
OFNP	1P4024xxC11	24	0.15 (3.8)	8 (12)	80 (370)	25 (110)	3.0 (76)	1.5 (38)	Plywood reel
OFNP	1P4024xxA11	24	0.17 x 0.29 (4.4 x 7.5)	25 (37)	150 (668)	25 (110)	6.0 (152)	3.0 (76)	Plywood reel

Single Mode Optical Fiber Types

	TeraFlex® Bend Resistant		
	G.657.A1	G.657.A2	G.657.B3
[1]Replace "xx" with:	K1	J1	L1
Standard Jacket Colors*	Yellow		

Multimode Optical Fiber Types

	TeraGain® Laser Optimized 50/125			Laser Optimized 50/125		
	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550
[1]Replace "xx" with:	AG	BG	FG	MG	NG	PG
Standard Jacket Colors*	Aqua					