

Premises Distribution Fiber Optic Cables

OFNR/OFNP



Product Description

• Superior Essex sets the standard for exceeding standard single mode, 62.5 and 50 μ m fiber industry requirements. Standard single mode fiber is now reduced water peak (348 nm) single mode fiber providing transmission capability through the "E" band. Standard 62.5 μ m in the industry is 200/500 MHz-km, but at Superior Essex, our standard is TeraGain® 62.5 μ m fiber with a bandwidth of 220/600 MHz-km insuring compliance with emerging 10GB Ethernet specifications, like IEEE 802.3aq. Standard 50 μ m, with a OFL bandwidth of 500/500 Mhz-km @ 850/1310 nm, is now TeraGain® 10G/150 with a bandwidth of 700/500 MHz-km providing 10 GB Ethernet performance out to 150 meters and at no additional cost.

Physical Description

• The design consists of flexible tight buffer material extruded over the fiber to a diameter of 900 microns (125/250/900 μ m) for use with standard connectors. Dielectric yarns are applied for additional strength and a flame resistant outer jacket covers the strength members to complete each sub-unit. The sub-units are then stranded around a dielectric central strength member. A flexible, flame resistant outer jacket is then extruded over the cabled core. Appropriate materials are used to achieve an OFNR (riser) or OFNP (plenum) rating.

Jacket Colors

• Singlemode - Yellow • 62.5/125 and 50 micron multimode - Orange • Laser Optimized 50 micron multimode - Aqua.

Applications

- Intrabuilding backbones
- Interbuilding backbone (in conduit)
- Conduit pathways
- Service entrance to communication closets

Environmental Specifications	Plenum	Riser
Operation	-40°C to + 75°C	-40°C to + 75°C
Storage/Shipping	-40°C to + 75°C	-40°C to + 75°C
Installation	-20°C to + 65°C	-20°C to + 65°C

Part Numbers and Physical Characteristics

Part #	Fiber Type	Fiber Count	UL Rating	Nom. Diameter in (mm)	Nom. Weight lbs/kft (kg/km)	Max Tensile Loading		Min Bend Radius	
						Install lbs (N)	Long Term lbs (N)	Install in (mm)	Long Term in (mm)
OFNR									
430063101	EWP SMF	6	OFNR	0.20 (5.0)	16 (24)	150 (660)	45 (200)	3.1 (80)	2.0 (50)
430083101	EWP SMF	8	OFNR	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)
430123101	EWP SMF	12	OFNR	0.26 (6.5)	24 (36)	150 (660)	45 (200)	3.9 (100)	2.8 (70)
430183101	EWP SMF	18	OFNR	0.53 (13.3)	87 (130)	674 (3000)	337 (1500)	8.4 (213)	5.2 (133)
430243101	EWP SMF	24	OFNR	0.54 (13.7)	94 (140)	809 (3600)	404 (1800)	8.7 (220)	5.4 (137)
430363101	EWP SMF	36	OFNR	0.63 (15.9)	128 (190)	1012 (4500)	506 (2250)	10.0 (254)	6.3 (159)
430483101	EWP SMF	48	OFNR	0.63 (15.9)	121 (180)	899 (4000)	449 (2000)	10.0 (254)	6.3 (159)
430603101	EWP SMF	60	OFNR	0.69 (17.6)	148 (220)	1124 (5000)	562 (2500)	11.1 (282)	6.9 (176)
430723101	EWP SMF	72	OFNR	0.76 (19.3)	185 (275)	1348 (6000)	674 (3000)	12.2 (309)	7.6 (193)
430963101	EWP SMF	96	OFNR	0.89 (22.5)	269 (400)	1798 (8000)	899 (4000)	14.2 (360)	8.9 (225)
431443101	EWP SMF	144	OFNR	0.98 (25.0)	276 (410)	2696 (12000)	1348 (6000)	15.7 (400)	9.8 (250)
OFNP									
440063101	EWP SMF	6	OFNP	0.20 (5.0)	19 (29)	100 (440)	30 (132)	3.1 (80)	2.0 (50)
440083101	EWP SMF	8	OFNP	0.24 (6.0)	24 (36)	100 (440)	30 (132)	3.5 (90)	2.4 (60)
440123101	EWP SMF	12	OFNP	0.26 (6.5)	28 (42)	100 (440)	30 (132)	3.9 (100)	2.8 (70)
440183101	EWP SMF	18	OFNP	0.49 (12.4)	84 (125)	809 (3600)	404 (1800)	7.8 (198)	4.9 (124)
440243101	EWP SMF	24	OFNP	0.52 (13.1)	104 (155)	674 (3000)	337 (1500)	8.3 (210)	5.2 (131)
440363101	EWP SMF	36	OFNP	0.61 (15.5)	148 (220)	1011 (4500)	506 (2250)	9.8 (248)	6.1 (155)
440483101	EWP SMF	48	OFNP	0.62 (15.8)	141 (210)	899 (4000)	449 (2000)	10.0 (253)	6.2 (158)
440603101	EWP SMF	60	OFNP	0.68 (17.2)	171 (255)	1124 (5000)	562 (2500)	10.8 (275)	6.8 (172)
440723101	EWP SMF	72	OFNP	0.74 (18.9)	212 (315)	1348 (6000)	674 (3000)	11.9 (302)	7.4 (189)
OFNR									
430066G01	62.5/125 MM	6	OFNR	0.20 (5.0)	16 (24)	150 (660)	45 (200)	3.1 (80)	2.0 (50)
430086G01	62.5/125 MM	8	OFNR	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)
430126G01	62.5/125 MM	12	OFNR	0.26 (6.5)	24 (36)	150 (660)	45 (200)	3.9 (100)	2.8 (70)
430186G01	62.5/125 MM	18	OFNR	0.53 (13.3)	87 (130)	674 (3000)	337 (1500)	8.4 (213)	5.2 (133)
430246G01	62.5/125 MM	24	OFNR	0.54 (13.7)	94 (140)	809 (3600)	404 (1800)	8.7 (220)	5.4 (137)
430366G01	62.5/125 MM	36	OFNR	0.63 (15.9)	128 (190)	1012 (4500)	506 (2250)	10.0 (254)	6.3 (159)
430486G01	62.5/125 MM	48	OFNR	0.63 (15.9)	121 (180)	899 (4000)	449 (2000)	10.0 (254)	6.3 (159)
430606G01	62.5/125 MM	60	OFNR	0.69 (17.6)	148 (220)	1124 (5000)	562 (2500)	11.1 (282)	6.9 (176)
430726G01	62.5/125 MM	72	OFNR	0.76 (19.3)	185 (275)	1348 (6000)	674 (3000)	12.2 (309)	7.6 (193)
430966G01	62.5/125 MM	96	OFNR	0.89 (22.5)	269 (400)	1798 (8000)	899 (4000)	14.2 (360)	8.9 (225)
431446G01	62.5/125 MM	144	OFNR	0.98 (25.0)	276 (410)	2696 (12000)	1348 (6000)	15.7 (400)	9.8 (250)

Standards Compliance:

Listed as OFNR (UL 1666), Listed as OFNP (NFPA 262), Designed in accordance with Telcordia's Bellcore GR-409-CORE, ANSI/TIA/EIA 568-B.3

Premises Distribution Fiber Optic Cables

OFNR/OFNP

Part Numbers and Physical Characteristics (cont.)

Part #	Fiber Type	Fiber Count	UL Rating	Nom. Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Max Tensile Loading		Min Bend Radius	
						Install lbs (N)	Long Term lbs (N)	Install in (mm)	Long Term in (mm)
OFNP									
440066G01	62.5/125 MM	6	OFNP	0.20 (5.0)	19 (29)	100 (440)	30 (132)	3.1 (80)	2.0 (50)
440086G01	62.5/125 MM	8	OFNP	0.24 (6.0)	24 (36)	100 (440)	30 (132)	3.5 (90)	2.4 (60)
440126G01	62.5/125 MM	12	OFNP	0.26 (6.5)	28 (42)	100 (440)	30 (132)	3.9 (100)	2.8 (70)
440186G01	62.5/125 MM	18	OFNP	0.49 (12.4)	84 (125)	809 (3600)	404 (1800)	7.8 (198)	4.9 (124)
440246G01	62.5/125 MM	24	OFNP	0.52 (13.1)	104 (155)	674 (3000)	337 (1500)	8.3 (210)	5.2 (131)
440366G01	62.5/125 MM	36	OFNP	0.61 (15.5)	148 (220)	1011 (4500)	506 (2250)	9.8 (248)	6.1 (155)
440486G01	62.5/125 MM	48	OFNP	0.62 (15.8)	141 (210)	899 (4000)	449 (2000)	10.0 (253)	6.2 (158)
440606G01	62.5/125 MM	60	OFNP	0.68 (17.2)	171 (255)	1124 (5000)	562 (2500)	10.8 (275)	6.8 (172)
440726G01	62.5/125 MM	72	OFNP	0.74 (18.9)	212 (315)	1348 (6000)	674 (3000)	11.9 (302)	7.4 (189)
OFNR									
43006BG01	10G/300	6	OFNR	0.20 (5.0)	16 (24)	150 (660)	45 (200)	3.1 (80)	2.0 (50)
43008BG01	10G/300	8	OFNR	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)
43012BG01	10G/300	12	OFNR	0.26 (6.5)	24 (36)	150 (660)	45 (200)	3.9 (100)	2.8 (70)
43018BG01	10G/300	18	OFNR	0.53 (13.3)	87 (130)	674 (3000)	337 (1500)	8.4 (213)	5.2 (133)
43024BG01	10G/300	24	OFNR	0.54 (13.7)	94 (140)	809 (3600)	404 (1800)	8.7 (220)	5.4 (137)
43036BG01	10G/300	36	OFNR	0.63 (15.9)	128 (190)	1012 (4500)	506 (2250)	10.0 (254)	6.3 (159)
43048BG01	10G/300	48	OFNR	0.63 (15.9)	121 (180)	899 (4000)	449 (2000)	10.0 (254)	6.3 (159)
43060BG01	10G/300	60	OFNR	0.69 (17.6)	148 (220)	1124 (5000)	562 (2500)	11.1 (282)	6.9 (176)
43072BG01	10G/300	72	OFNR	0.76 (19.3)	185 (275)	1348 (6000)	674 (3000)	12.2 (309)	7.6 (193)
43096BG01	10G/300	96	OFNR	0.89 (22.5)	269 (400)	1798 (8000)	899 (4000)	14.2 (360)	8.9 (225)
43144BG01	10G/300	144	OFNR	0.98 (25.0)	276 (410)	2696 (12000)	1348 (6000)	15.7 (400)	9.8 (250)
OFNP									
44006BG01	10G/300	6	OFNP	0.20 (5.0)	19 (29)	100 (440)	30 (132)	3.1 (80)	2.0 (50)
44008BG01	10G/300	8	OFNP	0.24 (6.0)	24 (36)	100 (440)	30 (132)	3.5 (90)	2.4 (60)
44012BG01	10G/300	12	OFNP	0.26 (6.5)	28 (42)	100 (440)	30 (132)	3.9 (100)	2.8 (70)
44018BG01	10G/300	18	OFNP	0.49 (12.4)	84 (125)	809 (3600)	404 (1800)	7.8 (198)	4.9 (124)
44024BG01	10G/300	24	OFNP	0.52 (13.1)	104 (155)	674 (3000)	337 (1500)	8.3 (210)	5.2 (131)
44036BG01	10G/300	36	OFNP	0.61 (15.5)	148 (220)	1011 (4500)	506 (2250)	9.8 (248)	6.1 (155)
44048BG01	10G/300	48	OFNP	0.62 (15.8)	141 (210)	899 (4000)	449 (2000)	10.0 (253)	6.2 (158)
44060BG01	10G/300	60	OFNP	0.68 (17.2)	171 (255)	1124 (5000)	562 (2500)	10.8 (275)	6.8 (172)
44072BG01	10G/300	72	OFNP	0.74 (18.9)	212 (315)	1348 (6000)	674 (3000)	11.9 (302)	7.4 (189)

To select a part number for a fiber type not listed, please see our fiber selection pages starting on page 189

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