

## Premises Distribution Riser-Rated Optical Cables

### APPLICATION

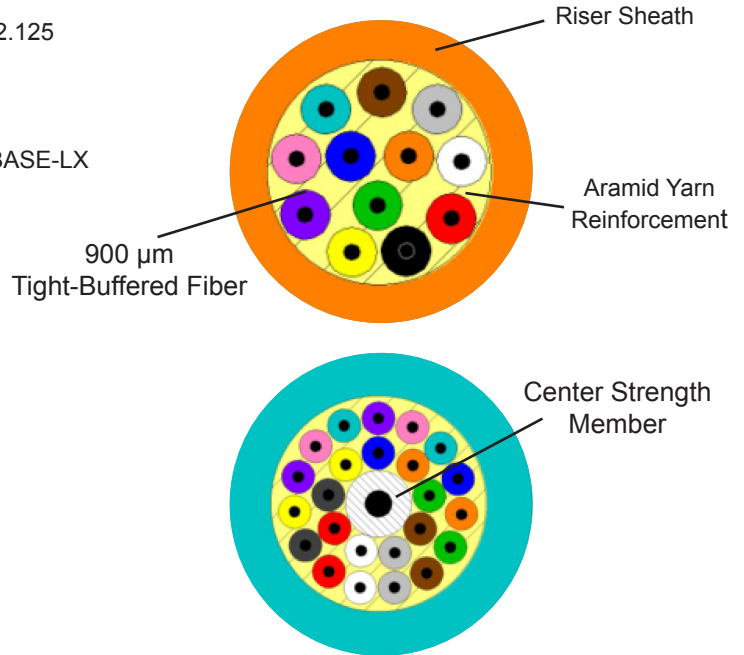
- As backbone in LANs
- For premises wiring
- Indoor and outdoor in ducts
- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- Fiber Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE
- 1000BASE-SX/1000BASE-LX

### STANDARDS COMPLIANCE

IEC 60794-2, IEC 60794-2-20  
 ITU G.652.A/B/C/D for SM (low water peak)  
 ITU G.657.A/B for SM (enhanced bend insensitive)  
 EN 50173  
 ISO/ IEC 11801  
 ANSI/ICEA S-83-596  
 ANSI/ TIA-568-C.3  
 Telcordia GR-409  
 RoHS

### FIRE RATING

UL 1666, OFNR



50DRR-yy1, 5LDRR-yy1, SMDRR-yy1

Construction	
Fiber	6-24 tight-buffered fibers, 900 µm
Central Strength member	≥ 24 Fiber
Jacket	Riser
Color	OM2: Orange; OM3: Aqua; OS2: Yellow

Mechanical Properties			
Fiber count	Nominal diameter	Nominal cable weight	Minimum bending radius Long term/short term
6	5.7 mm	29 kg/km	5.7/8.5 cm
12	6.2 mm	37 kg/km	6.2/9.4 cm
24	8.5 mm	70 kg/km	8.5/12.8 cm

Physical Properties		
Installation tensile strength	6 fibers	667 N/150 lbs
	12 fibers	667 N/150 lbs
	24 fibers	667N/150 lbs
Long-term tensile strength	6 fibers	200 N/45.0 lbs
	12 fibers	200 N/45.0 lbs
	24 fibers	200 N/45.0 lbs
Compressive strength (crush)	6 fibers	100 N/cm
	12 fibers	100 N/cm
	24 fibers	220 N/cm
Impact	2 at 5.88 N-m	
Temperature	Operation:	-40 °C to 75 °C
	Installation:	-20 °C to 75 °C
	Storage:	-40 °C to 85 °C

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**TRANSMISSION CHARACTERISTICS**

<b>50/125 μm</b>	<b>OM2 Multimode</b>	<b>OM3 Multimode</b>	<b>OM4 Multimode</b>
<b>Attenuation (of cable with fibers)</b>			
Maximum value of cable at 850 nm	≤ 3.5 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km
Maximum value of cable at 1300 nm	≤ 1.5 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km
Inhomogeneity of OTDR trace for any two 1000-meter fiber lengths	Max. 0.2 dB/km	Max. 0.1 dB/km	Max. 0.1 dB/km
<b>Bandwidth</b>			
OFL value at 850 nm	500 MHz • km	1500 MHz • km	4700 MHz • km
Effective Modal BW value at 850 nm	500 MHz • km	2000 MHz • km	3500 MHz • km
OFL value at 1300 nm	500 MHz • km	500 MHz • km	500 MHz • km
Group index of refraction at 850 nm	1.482	1.482	1.482
Group index of refraction at 1300 nm	1.477	1.477	1.477

<b>8.3/125 μm</b>	<b>OS2 Single mode</b>
<b>Attenuation (of cable with fibers)</b>	
1310 nm - 1625 nm	≤ 0.39 dB/km
1550 nm	≤ 0.25 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fiber lengths	Max. 0.1 dB/km
<b>Bandwidth</b>	
Group index of refraction at 1310 nm	1.467
Group index of refraction at 1550 nm	1.468
Group index of refraction at 1625 nm	1.468

**PART NUMBERS**

<b>Description</b>	<b>Part No.</b>
OM2 Premise Distribution Riser Cable	50DRR-yy1
OM3 Premise Distribution Riser Cable	5LDRR-yy1
OS2 Premise Distribution Riser Cable	SMDRR-yy1

yy = fiber count: (06) 6 fibers, (12) 12 fibers, (24) 24 fibers.

Note: All packaging is 1,000 meter drum reel. Other lengths available upon request. 62.5/125 μm (OM1 and OM4) multimode cable is available upon request. Other fiber counts available upon request. Available in plenum upon request.



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