TECHNICAL SPECIFICATION

CLR-DM3-3P-XXX

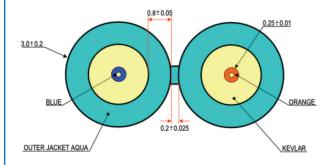


50/125 Multimode OM3, 3.0mm Jacketed Duplex Riser / Plenum I/O / LSZH Cables

Type OM3, OFNR, CSA FT4 / OFNP, CSA FT6 / LSZH

Covid CLR advanced optical glass fibers are much stronger, safer, and faster terminating than typical fibers. This duplex style cable provides the ultimate in durability and bend with ease of termination. CLR fibers are always protected at the glass level as a result of their integral polymeric coating, increasing both bend and tensile strength to unprecedented levels. Covid CLR fibers are compatible with all common connector systems on the market for standard 50/125 multimode and 9/125 Single mode fibers.

Duplex Typical Cross Section



Features & Benefits:

- High mechanical strength and superior fatigue & durability
- Integral coating eliminates stripping, provides glass protection
- 10,000x the bend of standard fiber, Fatigue constant (Nd) >30
- Increased safety factor due to the incredible bend insensitivity
- Glass fiber remains protected at all times from the elements
- Simplified termination process designed for ease of use
- Ultra low Attenuation loss on tight bend radius
- Exclusive 250um Soft peel jacket identifier

APPLICATIONS

Inter-building and intra-building voice or data communication backbones requiring 3.0mm jacket diameter. Install in ducts, underground conduits or aerial/lashed. Light weight ultra flexible design simplifies installation.

Fiber-to-the-Desk (FTTD). Fiber-to-the-Home (FTTH). ETL listed type OFNP for installation in ducts, plenums and other spaces used as environmental air returns when installed in accordance with NEC article 770-51 (a) and 770-53(a)

PART NUMBERS

PART #	PART DESC.	FIBER COUNT	NOMINAL DIA.	CABLE WEIGHT	TOTAL WEIGHT
CLR-DM3-3P-XXX	Duplex Plenum	2 Fiber /s	3.0mm x 2	13.2 lbs / 1000 9.0 kg / km	15.43 lbs 6.99 kg
XXX= Length Available in 500' Box and 1,000' Box 500' Box = CLR-DM3-3P-500B 1,000' Box = CLR-DM3-3P-1KB					

TECHNICAL SPECIFICATION

CLR-D50125MOM-XX



CONSTRUCTION

Number of Fibers; Duplex = 250/125 Multimode OM3

250um "Soft Peel" coating (1 = Blue, 2 = Orange)

Color Coding per TIA/EIA 568C

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity < 0.05 (dB/km)
Attenuation Uniformity < 0.05 (dB)
Group Index of Refraction 850 nm 1.481
1300 nm 1.476

JACKET

Riser Rated PVC / Plenum Rated PVC + UV I/O / LSZH 3.0mm x 2 unit diameter w/strip peel Aqua jacket = OM3, Sequential footage markings Kevlar (Plenum/LSZH + water blocking yarns Indoor/Outdoor)

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850 nm and 1300 nm < 0.5 (dB/km) Induced Attenuation – 40° C to $+85^{\circ}$ C

Water soaks Dependence at 850nm and 1300 nm < 0.5 (dB/km) Induced Attenuation at 23°C for 30 days

Damp Heat Dependence at 850 nm and 1300 nm < 0.5 (dB/km)

Induced Attenuation at 85°C, 85%R.H., 30 days
Dry Heat Dependence at 850 nm and 1300 nm < 0.5 (dB/km)
Induced Attenuation at 85°C, 30 days

PHYSICAL DATA

Storage Temperature Range $= -40^{\circ}\text{C to } +85^{\circ}\text{C}$ Operating Temperature Range $= -20^{\circ}\text{Cto } +75^{\circ}\text{C}$ Max Tensile Load for Installation = 1000(225) N (lbf)Max Tensile Long Load term = 500(112) N (lbf)Min. Bend Radius, Unloaded $= 1 \times 00 \times 1000 \times 10000 \times 10000 \times 10000 \times 10000 \times 1000 \times 10000 \times 1000 \times 1000 \times 10000 \times$

Cable Package = 1000ft/304.8m Reel*

*Or customer request, spooled

Rating = FT4-Riser / FT6-Plenum /

LSZH

Crush Resistance (TIA/EIA 455-41A) = 100 kgf/mmImpact Resistance (TIA/EIA 455-25B) = 1500 Impact cyclesFlexing @ 90 degree (TIA/EIA 455-104A) = 2000 flexing cycles

PHYSICAL CHARACTERISTICS

Core Diameter	$50.0 \pm 2.5 (\mu m)$
Core Non-circularity	< 6 (%)
Core / Hybrid Cladding Concentricity Error	< 3.0 (µm)
Hybrid Cladding Diameter	$125 \pm 0.7 (\mu m)$
Hybrid Cladding Non-Circularity Error	< 3.0 (%)
Soft Peel Jacket Identifier Diameter	$250 \pm 0.7 (\mu m)$
Coating Strip Force	100 (g)
Fiber Curl	< 2 (m)
Dynamic Fatigue Constant (Nd)	>30
Proof Test	100 (kpsi)
Bend Induced Attenuation at 1300 nm	< 1.0 (dB)
(100 turns around a mandrel of 75 mm)	
Dynamic fatigue 23C, 41%RH	>30(nd)
Length	1.0 - 8.8 (Km)

OPTICAL CHARACTERISTICS

	Attenuation Coefficient	850 nm	< 3.0 (dB/km)
		1300 nm	< 1.0 (dB/km)
	Numerical Aperture		0.200 ± 0.015
	Overfilled Modal Bandwidth	850 nm	< 1500 (MHz·km)
		1300 nm	< 500 (MHz·km)
	High Performance FMB	850nm	< 2000 (MHz•km)

COMPLIANCE

ETL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6, or LSZH-non ETL/ IECA S-104-696. GR-409 RoHS Compliant Directive 2011/65/EU

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com www.covid.com