COMPONENT SPECIFICATIONS 2-8 Strand SSF™ Multimode OM3, Breakout Riser / Plenum I/O / LSZH Cables

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

Cleerline SSF™ advanced optical glass fibers are much stronger. safer, and faster terminating than typical fibers. This breakout style cable provides the ultimate in durability and bend. SSF™ 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. Cleerline SSF™ fibers are compatible with all common connector systems on the market for standard 50/125 multimode and 9/125 Singlemode fibers.

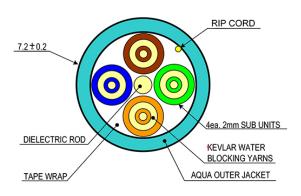
Features And Benefits:

- * 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



Typical Cross Section

Part: 4B50125OM3x



CONSTRUCTION

FIBER

Number of Fibers = 2,4,6,850/125 Multimode OM3 250um "Soft Peel" coating Color Coding per TIA/EIA 568C

IACKET

Riser Rated PVC / Plenum Rated PVC + UV I/O / LSZH Unit Diameter by Part # / 2.0mm Subunits, 1 fiber per unit Agua jacket = Multimode OM3, ripcord under outer sheath Sequential footage markings Kevlar (Plenum/LSZH + water blocking yarns Indoor/Outdoor)

PHYSICAL DATA

Storage Temperature Range = -40°C to +85 °C Operating Temperature Range = -20°C to +75 °C = 1000(225) N (lbf)Max Tensile Load for Installation Max Tensile Load Long term = 500(112) N (lbf)Min. Bend Radius. Unloaded $= 1 \times OD$ Cable Outside Diameter, Nominal = Part # Dependent Cable Package* = 1000ft/304.8m Reel* *Or customer request, spooled = FT4-Riser / FT6-Plenum / LSZH

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

APPLICATIONS

Inter-building and intra-building voice or data communication backbones. Install in ducts, underground conduits type OFNP. 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)

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850 nm and 1300 nm ≤ 0.05 (db/km) Induced Attenuation - 60°C to +85°C Watersoak Dependence at 850 nm and 1300 nm \leq 0.05 (db/km) Induced Attenuation at 20℃ for 30 days Damp Heat Dependence at 850 nm and 1300 nm ≤ 0.05 (db/km) Induced Attenuation at 85°C, 85%R.H., 30 days Dry Heat Dependence at 850 nm and 1300 nm ≤ 0.05 (db/km) Induced Attenuation at 85°C,, 30 days

PRODUCT DETAIL

Cleerline SSF™ 4 strand fiber Breakout type cable is composed of a overall jacket with 2.0mm sub-units and if applicable, a central strength member. Utilizing SSF™ fiber allows for incredible strength and durability. Flex tested to 2000 cycles, Impact to 1500 cycles and crush to 100 kgf/mm. SSF™ allows for ease of installation, safety, and reliability in all installation applications for the ultimate in connectivity. SSFTM conforms to the requirement of IEC 60793-2-10 A1a.3, ISO/IEC 11801 & ITU-T G.651.1. 850 nm Laser-Optomized 50 μ m core multimode fiber for 10 Gb/s & above applications

OPTICAL CHARACTERISTICS*

| Attenuation Coefficient Numerical Aperture | 850 nm 1300 nm | $\leq 3.0 \text{ (dB/km)}$ $\leq 1.0 \text{ (dB/km)}$ 0.200 ± 0.015 |
|---|-------------------|---|
| Overfilled Modal Bandwidth 850 nm | | ≧ 1500 (MHz·km) |
| | 1300 nm | ≧ 500 (MHz · km) |
| High Performance EMB | 850nm | ≥ 2000 (MHz·km) |

BACKSCATTER CHARACTERISTICS

| Attenuation Directional Uniformity | $\leq 0.05 (dB/km)$ |
|------------------------------------|--------------------------|
| Attenuation Uniformity | $\leq 0.05 \text{ (dB)}$ |
| Group Index of Refraction 850 nm | 1.481 |
| 1300 nm | 1.476 |

PHYSICAL CHARACTERISTICS

| Core Diameter | $50.0 \pm 2.5 (\mu m)$ |
|--|------------------------|
| Core Non-circularity | ≦ 6 (%) |
| Core / Hybrid Cladding Concentricity Error | \leq 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 diameter) | |
| Dynamic fatigue 23C, 41%RH | >30(nd) |
| Length | 1.0 - 8.8 (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



| CABLE CHARACTERISTICS | | |
|---|---|--|
| Fiber Count | 2, 4, 6, 8 | |
| Outer Jacket Material | Riser / Plenum / LSZH | |
| Sub Units | 2.0mm Flame Retardant PVC / Jacket Type | |
| Strength Member | Aramid Yarn | |
| Central Strength Member (if applicable) | Fiber Reinforced Plastic Rod | |
| Coating on Central Strength Member | Flame Retardent PVC | |

| PHYSICAL CHARACTERISTICS | VALUE |
|--|----------------------------|
| Nominal Outer Dlameter (mm) 2, 4, 6, 8 | 5.0 / 7.2 / 9.0 / 9.7 |
| Weight (lbs/km) of 2, 4, 6, 8 | 125 / 135 / 165 / 205 |
| Minimum Bend Radius, Installation (cm) | 11.5 / 12.37 / 13.5 / 14.4 |
| Minimum Bend Radius, Operation (cm) | 5.0 / 7.2 / 9.0 / 9.7 |

| PART NUMBERS | | | |
|--------------|-------------|-------------|-------------|
| Fiber Count | Riser | Plenum | LSZH |
| 2 | 2B50125OM3R | 2B50125OM3P | 2B50125OM3L |
| 4 | 4B50125OM3R | 4B50125OM3P | 4B50125OM3L |
| 6 | 6B50125OM3R | 6B50125OM3P | 6B50125OM3L |
| 8 | 8B50125OM3R | 8B50125OM3P | 8B50125OM3L |