

50/125 SSF™ Multimode OM3 Breakout Tactical Outdoor Cable with 2.0 mm Subunits

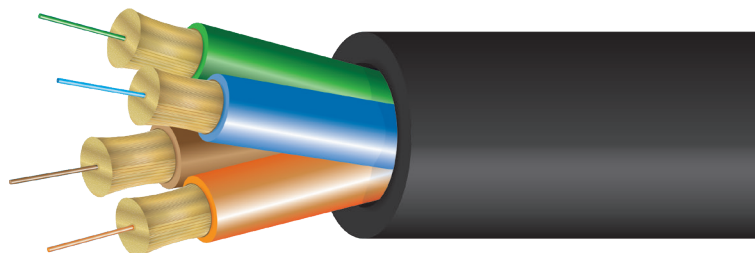
Type: OM3, PU Jacket



Cleerline SSF™ Tactical Breakout cable is composed of an overall jacket with 2.0 mm subunits.

SSF™ Tactical cable is designed for installations where cable may need to be removed or changed, such as rental or staging applications. Tactical PU jacketing provides increased durability, UV and chemical resistance, and extreme flexibility. This cable is outdoor rated.

The included SSF™ fibers feature patented SSF™ polymer coating for extreme durability and ease of installation. Flex tested to 2000 cycles, impact to 1500 cycles, and crush resistance to 100 kgf / mm.



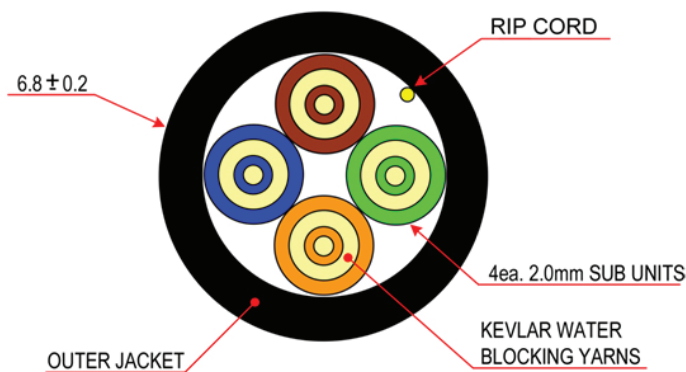
3D VIEW

FEATURES AND BENEFITS

- All dielectric construction - no grounding / bonding required
- High mechanical strength, superior fatigue (nD = 30)
- Compatible with common connector systems for 50/125 multimode
- Up to 10,000x the bend longevity of traditional fiber
- Integral SSF™ coating provides glass protection
- Increased safety due to incredible bend insensitivity
- Exclusive 250 µm Soft Peel acrylate

APPLICATIONS

- Installations requiring portability - cable can be retracted onto a reel
- Harsh environments: temporary or permanent industrial, broadcast, or abrasive/chemical environments
- High crush environments



TYPICAL CROSS SECTION


| PART NUMBER | FIBERS | DESCRIPTION | TYPE | O.D. | WEIGHT (LB / 1000 FT) | MIN. BEND RADIUS, INSTALLATION | MIN. BEND RADIUS, OPERATION |
|-----------------|----------|--------------------------|-------------|--------|-----------------------|--------------------------------|-----------------------------|
| 2TB501250M3PU | 2 Fibers | 2 Strand - 1000 ft Spool | Tactical PU | 5.0 mm | 49.5 | 11.5 cm | 5.0 cm |
| 2TB501250M3PU-B | 2 Fibers | 2 Strand - Cut to Order | Tactical PU | 5.0 mm | 49.5 | 11.5 cm | 5.0 cm |
| 4TB501250M3PU | 4 Fibers | 4 Strand - 1000 ft Spool | Tactical PU | 6.8 mm | 61.5 | 12.37 cm | 6.8 cm |
| 4TB501250M3PU-B | 4 Fibers | 4 Strand - Cut to Order | Tactical PU | 6.8 mm | 61.5 | 12.37 cm | 6.8 cm |

CONSTRUCTION

| FIBER | |
|--------------|-----------------------------------|
| Fibers | 2, 4 |
| Type | 50/125 Multimode |
| Coating | 250 µm "Soft Peel" S-Type Coating |
| Color Coding | Per TIA/EIA 598C |

| PHYSICAL DATA | |
|---|---|
| Storage Temperature Range | -40°C to +80°C |
| Operating Temperature Range | -20°C to +75°C |
| Max Tensile Load (Installation) | 1000 N (225 lbf) |
| Max Tensile Load Long Term | 500 N (112 lbf) |
| Subunit Min. Bend Radius, Unloaded | 1 x O.D. |
| Cable Outside Diameter, Nominal | Varies by part number |
| Min. Bend Radius, Installation | Varies by part number |
| Min. Bend Radius, Operation | Varies by part number |
| Cable Package | 1000 ft Reel or customer request, spooled |
| Rating | Outdoor |
| Crush Resistance (TIA/EIA 455-41A) | 100 kgf / mm |
| Impact Resistance (TIA/EIA 455-25B) | 1500 impact cycles |
| Flexing @ 90 degrees (TIA/EIA 455-104A) | 2000 flexing cycles |

| ENVIRONMENTAL CHARACTERISTICS | |
|--|-----------------|
| Temperature Dependence, 850 nm and 1300 nm | ≤ 0.5 dB / km |
| Induced Attenuation | -60°C to + 85°C |
| Watersoak Dependence, 850 nm and 1300 nm | ≤ 0.5 dB / km |
| Induced Attenuation at 20°C for 30 days | |
| Damp Heat Dependence, 850 nm and 1300 nm | ≤ 0.5 dB / km |
| Induced Attenuation at 85°C, 85% R.H., 30 days | |
| Dry Heat Dependence, 850 nm and 1300 nm | ≤ 0.5 dB / km |
| Induced Attenuation at 85°C, 30 days | |

| COMPLIANCE | |
|---|---|
| IECA S-104-696. RoHS Compliant Directive 2011/65/EU SSF™ conforms to the requirement of IEC 60793-2-10 A1a.3, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications. |  |

| JACKET | |
|-----------------|-------------------------------------|
| Type | Tactical Polyurethane (PU), Outdoor |
| Color | Black |
| Outer Diameter | Varies by part number |
| Subunits | 2.0 mm Flame Retardant PVC |
| Markings | Sequential Foot Markings |
| Strength Member | Kevlar + water blocking yarns |

| PHYSICAL CHARACTERISTICS | | |
|--|---|----------|
| Core Diameter | 50.0 ± 2.5 µm | |
| Core Non-circularity | ≤ 6% | |
| Core / Hybrid Cladding Concentricity Error | ≤ 3.0 µm | |
| Hybrid Cladding Diameter | 125 ± 0.7 µm | |
| Hybrid Cladding Non-Circularity Error | ≤ 3.0% | |
| Soft Peel Jacket Identifier | 250 ± 0.7 µm | |
| Coating Strip Force | 100 g | |
| Fiber Curl | ≥ 2 m | |
| Proof Test | 100 kpsi | |
| Dynamic Fatigue 23°C, 41% R.H. | > 30 nD | |
| Bend Induced Attenuation, 1300 nm | 100 turns around 75 mm diameter mandrel | ≤ 1.0 dB |
| 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 EMB | 850 nm | ≥ 2000 MHz · km |

| BACKSCATTER CHARACTERISTICS | | |
|------------------------------------|--------------|-------|
| Attenuation Directional Uniformity | ≤ 0.05 dB/km | |
| Attenuation Uniformity | ≤ 0.05 dB/km | |
| Group Index of Refraction | 850 nm | 1.481 |
| | 1300 nm | 1.476 |