

50/125 SSF™ Multimode OM4 2 - 72 Strand Aluminum Interlocking Armored, Riser/Plenum

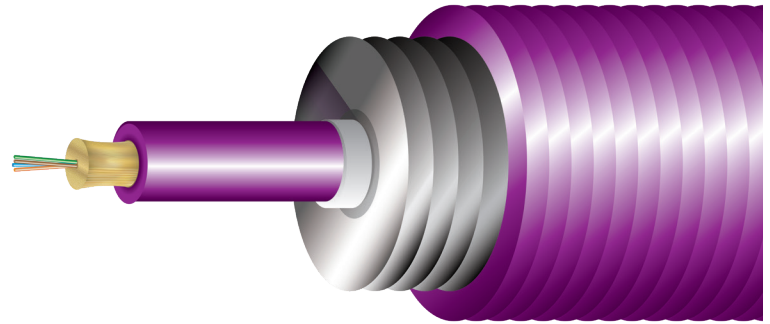
Type: OM4, OFCR, FT4 / OFCP, FT6 Indoor Only



Cleerline SSF™ micro distribution Aluminum Interlocking Armored cable consists of either a Riser or Plenum overall jacket with 2-72 fibers and water blocking yarns. All Aluminum Interlocking Armored is indoor rated.

SSF™ Aluminum Interlocking Armored includes a spirally wrapped internal aluminum strip which provides high crush resistance and protection from rugged environments.

Cleerline SSF™ multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber.



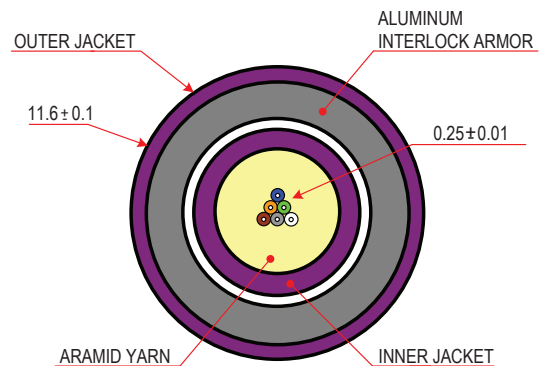
3D VIEW

FEATURES AND BENEFITS

- 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

- Rugged environments- spirally-wrapped aluminum strip also prevents rodent incursion
- Installation without additional inner duct/conduit
- Indoor installations



TYPICAL CROSS SECTION

| PART NUMBER | FIBERS | DESCRIPTION | TYPE RISER/PLENUM | O.D. | WEIGHT (LB / 1000 FT) | BEND RADIUS |
|-------------------|-----------|----------------------------------|----------------------|----------|--------------------------|-------------|
| 2IAD50125MOM4X | 2 Fibers | 2 Strand 50/125 - 1000 ft Spool | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 2IAD50125MOM4X-B | 2 Fibers | 2 Strand 50/125 - Cut to Order | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 6IAD50125MOM4X | 6 Fibers | 6 Strand 50/125 - 1000 ft Spool | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 6IAD50125MOM4X-B | 6 Fibers | 6 Strand 50/125 - Cut to Order | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 12IAD50125MOM4X | 12 Fibers | 12 Strand 50/125 - 1000 ft Spool | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 12IAD50125MOM4X-B | 12 Fibers | 12 Strand 50/125 - Cut to Order | X= R/P | 11.6 mm | 75.6 | 23.2 cm |
| 24IAD50125MOM4X | 24 Fibers | 24 Strand 50/125 - 1000 ft Spool | X= R/P | 16.2 mm | 104.7 | 26.0 cm |
| 24IAD50125MOM4X-B | 24 Fibers | 24 Strand 50/125 - Cut to Order | X= R/P | 16.2 mm | 104.7 | 26.0 cm |
| 48IAD50125MOM4X | 48 Fibers | 48 Strand 50/125 - 1000 ft Spool | X= R/P | 17.45 mm | 159 | 34.9 cm |
| 48IAD50125MOM4X-B | 48 Fibers | 48 Strand 50/125 - Cut to Order | X= R/P | 17.45 mm | 159 | 34.9 cm |
| 72IAD50125MOM4X | 72 Fibers | 72 Strand 50/125 - 1000 ft Spool | X= R/P | 19.25 mm | 201.6 | 38.5 cm |
| 72IAD50125MOM4X-B | 72 Fibers | 72 Strand 50/125 - Cut to Order | X= R/P | 19.25 mm | 201.6 | 38.5 cm |

CONSTRUCTION

| FIBER | |
|--------------|-----------------------------------|
| Fibers | 2, 6, 12, 24, 48, 72 |
| Type | 50/125 Multimode OM4 |
| Coating | 250 µm "Soft Peel" S-Type Coating |
| Color Coding | Per TIA/EIA 598C |


| JACKET | |
|------------------|---|
| Type | Riser Rated PVC (Indoor) Plenum Rated PVC (Indoor) |
| Color | Violet |
| Outer Diameter | Varies by part number |
| Subunit Diameter | 3.0 mm Loose Tube |
| Markings | Sequential Foot Markings |
| Strength Member | Kevlar + water blocking yarns |

| PHYSICAL DATA | |
|---------------------------------|---|
| Storage Temperature Range | -40°C to +70°C |
| Operating Temperature Range | -20°C to +70°C |
| Max Tensile Load (Installation) | 800 N (180 lbf) |
| Max Tensile Load Long Term | 600 N (135 lbf) |
| Allowable Bend Radius | 20 X O.D. |
| Cable Outside Diameter, Nominal | Varies by part number |
| Cable Package | 1000 ft reel or customer request, spooled |
| Rating | FT4 - Riser / FT6 - Plenum |

| FIBER OPTIC CHARACTERISTICS | | |
|--|-------------------------------------|---------------------|
| Max. Attenuation Loss (dB/km) | 850 ± 20 nm | < 3.5 dB (Typ. 3.0) |
| | 1300 ± 20 nm | < 1.0 dB (Typ. 0.8) |
| Macro Bending Loss, 850 nm and 1300 nm | 2 bending turns around 15 mm radius | 1.0 dB |

| FIBER PERFORMANCE SUMMARY | | |
|---------------------------|--|-------------|
| Item | Standard Compliance & Condition | Δ Loss |
| High Humidity Aging | IEC 60793-1-50, 85°C/85% RH, 30 days | < 0.2 dB/km |
| Thermal Aging | IEC 60793-1-51 85°C, 30 days | < 0.2 dB/km |
| Temperature Cycling | IEC 60793-1-52 10° ~ 85°C, 21 cycles | < 0.2 dB/km |
| Water Soak | IEC 60793-1-53 23°, 30 days | < 0.2 dB/km |
| Hydrogen Aging | IEC 60793-2-50 23°C, Hydrogen loading 0.01 atm | NA |

| CABLE PERFORMANCE SUMMARY | | |
|-------------------------------------|---|-------------|
| Item | Standard Compliance & Condition | Δ Loss |
| Cyclic Flexing Test | TIA/EIA-455-104A Sheave diameter: 20D (D = cable dia.) | < 0.3 dB/km |
| | Flexing angle ±90°/cycle Flexing speed: 30 cycle/min Flexing cycles: 2000 Cycle load: 5 kg | |
| Impact Test | TIA/EIA-455-25B Flexing Cycles: 1500 Flexing speed: 30 ± 1 cycle/min. | <0.3 dB/km |
| Compressive Loading Resistance Test | TIA/EIA 455-41A 220 kgf/mm for 10 min. | < 0.3 dB/km |

| COMPLIANCE | |
|---|---|
| UL Listed Type OFNR, CSA FT4, IECA S-83-596 & OFNP, CSA FT6, or LSZH-non ETL / IECA S-104-696. GR-409 SSF™ conforms to the requirement of IEC 60793 A1a, ISO/IEC 11801 & ITU-T G.651.1 850 nm Laser-Optimized 50 µm core multimode fiber for 10 Gb/s and above applications. |  |