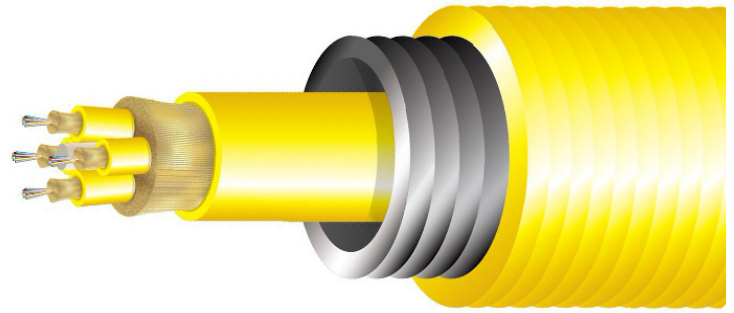


Cleerline BendSafe® Interlocking Armored Micro-Distribution cable consists of plenum overall jacket with 48-144 fibers and water blocking yarns. All Interlocking Armored is indoor rated.

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

Cleerline BendSafe® single-mode is fully compatible with all common connector systems for standard 9/125 single-mode fiber.



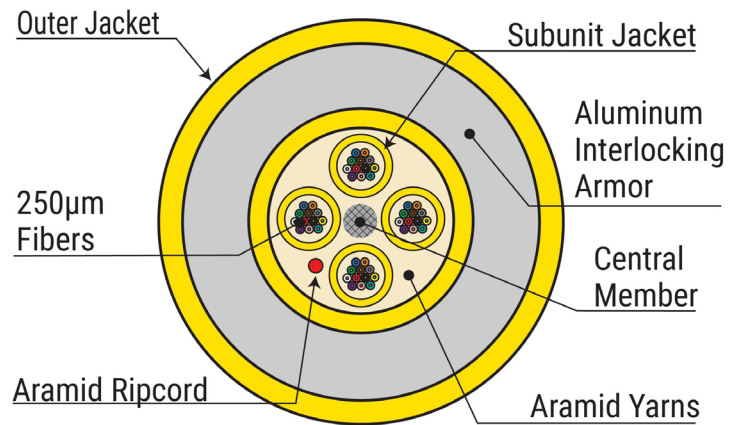
**3D VIEW**

**FEATURES AND BENEFITS**

- BendSafe® Dynamic Fatigue rating Nd = 27
- High mechanical strength
- Compatible with common connector systems for 9/125 single-mode.
- Manufactured to exact tolerances and specifications
- Ultra low attenuation on tight bend radius

**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	OUTER DIAMETER	WEIGHT (LB / 1000 FT)
TA048S2M3YP	48 Fibers	48 Strand BendSafe® - 1000 ft Spool	Plenum	17.5 mm	195
TA048S2M3YP-B	48 Fibers	48 Strand BendSafe® - Cut to Order	Plenum	17.5 mm	195
TA072S2M3YP	72 Fibers	72 Strand BendSafe® -1000 ft Spool	Plenum	19.3 mm	254
TA072S2M3YP-B	72 Fibers	72 Strand BendSafe® - Cut to Order	Plenum	19.3 mm	254
TA096S2M2YP	96 Fibers	96 Strand BendSafe®-1000 ft Spool	Plenum	17.3 mm	221
TA096S2M2YP-B	96 Fibers	96 Strand BendSafe®- Cut to Order	Plenum	17.3 mm	221
TA144S2M2YP	144 Fibers	144 Strand BendSafe® - 1000 ft Spool	Plenum	19.3 mm	240
TA144S2M2YP-B	144 Fibers	144 Strand BendSafe® - Cut to Order	Plenum	19.3 mm	240

FIBER	
Fibers	48, 72, 96 & 144
Type	9/125 single-mode OS2
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Plenum Rated PVC (Indoor)
Color	Yellow
Outer Diameter	Varies by Part Number
Subunit Diameter	3.0 mm 48 - 72 strands 2.0 mm 96 - 144 strands
Markings	Sequential Foot Markings
Strength Member	Aramid Yarns


PHYSICAL DATA		
Storage Temperature Range	-40 °C to +70 °C	
Operating Temperature Range	0 °C to +70 °C	
Minimum Bend Radius	48 Fiber	34.9 cm
	72 Fiber	38.5 cm
	96 Fiber	34.5 cm
	144 Fiber	38.6 cm
Cable Package	Length varies by customer request, spooled	
Rating	FT6 - Plenum	
Fatigue Resistance Parameter @23 °C, 41% RH	= 27 Nd	

ENVIRONMENTAL CHARACTERISTICS	
Temperature Cycling Test @ 1310 nm and 1550 nm -60 °C to +85 °C	≤ 0.05 dB/km
Temperature and Humidity Cycling Test @ 1310 nm and 1550 nm -10 °C to +85 °C, 90% RH	≤ 0.05 dB/km
Damp Heat Dependence Test @ 1310 nm and 1550 nm +85 °C, 85% RH for 30 days	≤ 0.05 dB/km
Dry Heat Dependence Test @ 1310 nm and 1550 nm +85 °C for 30 days	≤ 0.05 dB/km
Watersoak Dependence Test @ 1310 nm and 1550 nm +20 °C for 30 days	≤ 0.05 dB/km

BACKSCATTER CHARACTERISTICS		
Attenuation Directional Uniformity	≤ 0.03 dB/km	
Attenuation Uniformity	≤ 0.05 dB/km	
Group Index of Refraction	1310 nm	1.467
	1550 nm	1.468

PHYSICAL CHARACTERISTICS		
Core / Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	124.5 ± 0.7 μm	
Cladding Non-Circularity Error	≤ 1.0%	
UV Acrylate Coating / Cladding Concentricity Error	≤ 6.0 μm	
Coating Strip Force (typical)	≥ 130 g	
Fiber Curl	≥ 4 m	
Proof Test (screen level)	0.69 (100) Gpa (Kpsi)	
Bend Induced Attenuation	1 turn around a mandrel 7.5 mm radius @ 1550 nm/1625 nm	≤ 0.5 / 1.0 dB
	1 turn around a mandrel 10 mm radius @ 1550 nm/1625 nm	≤ 0.1 / 0.2 dB
	10 turn around a mandrel 15 mm radius @ 1550 nm/1625 nm	≤ 0.03 / 0.1 dB
Length (typical)	4.0 ~ 50.4 km	

OPTICAL CHARACTERISTICS		
Attenuation Coefficient	1310 nm	≤ 0.35 dB/km
	1383 nm H2 aged IEC60793-2-50 type B.1.3	≤ 0.31 dB/km
	1550 nm	≤ 0.21 dB/km
	1625 nm	≤ 0.23 dB/km
Mode Field Diameter (MFD) at Wavelength	1310 nm	8.6 ± 0.4 μm
	1550 nm	9.7 ± 0.5 μm
Cut Off Wavelength (in cable) (λCC)	< 1260 nm	

COMPLIANCE	
UL Listed Type ICEA S-83-596 & OFCP, CSA FT6, GR-409	
BendSafe® conforms to the requirement of ITU-T recommendations G.657.A2, G.657.B2, G.652.D, and the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber	