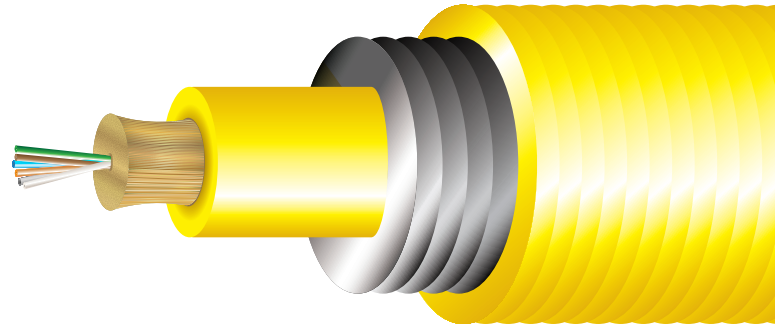


Cleerline BendSafe® Interlocking Armored Distribution cable consists of plenum overall jacket with 6-24 fibers and water blocking yarns. All Interlocking Armored is indoor rated.

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

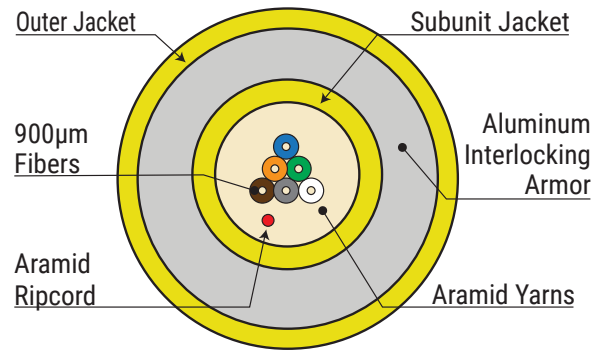
Cleerline BendSafe® single-mode is fully compatible with all common connector systems for standard 9/125 single-mode fiber.



3D VIEW

FEATURES AND BENEFITS

- BendSafe® Dynamic Fatigue rating Nd = 27
- High mechanical strength
- BendSafe® 900 µm tight buffered fibers
- Compatible with common connector systems for 9/125 single-mode.
- Manufactured to exact tolerances and specifications
- Ultra low attenuation on tight bend radius



TYPICAL CROSS SECTION

APPLICATIONS

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

PART NUMBER	FIBERS	DESCRIPTION	TYPE	OUTER DIAMETER	WEIGHT (LB / 1000 FT)
TA006S2D9YP	6 Fibers	6 Strand BendSafe®- 1000 ft Spool	Plenum	15.4 mm	130
TA006S2D9YP-B	6 Fibers	6 Strand BendSafe®- Cut to Order	Plenum	15.4 mm	130
TA012S2D9YP	12 Fibers	12 Strand BendSafe® - 1000 ft Spool	Plenum	15.4 mm	138
TA012S2D9YP-B	12 Fibers	12 Strand BendSafe® - Cut to Order	Plenum	15.4 mm	138
TA024S2D9YP	24 Fibers	24 Strand BendSafe®- 1000 ft Spool	Plenum	16.2 mm	149
TA024S2D9YP-B	24 Fibers	24 Strand BendSafe®- Cut to Order	Plenum	16.2 mm	149

FIBER	
Fibers	6, 12 & 24
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
Markings	Sequential Foot Markings
Strength Member	Aramid Yarns


PHYSICAL DATA	
Storage Temperature Range	-40 °C to +85 °C
Installation Temperature Range	0 °C to +75 °C
Operating Temperature Range	-20 °C to +85 °C
Max Tensile Load	600 N (150 lbf)
Min. Bend Radius, Unloaded	10 x O.D.
Min. Bend Radius, Loaded	20 x O.D.
Crush Resistance	100 N/cm
Impact Resistance (min)	25 Impacts
Flexing ± 90° (min)	25 Cycles
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	