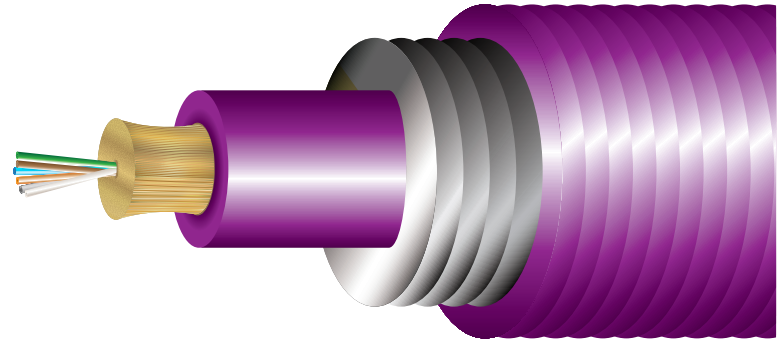


Cleerline BendSafe® Interlocking Armored Distribution cable consists of plenum overall jacket with 6-24 fibers and water blocking yarns. All Interlocking Armored is indoor rated.

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

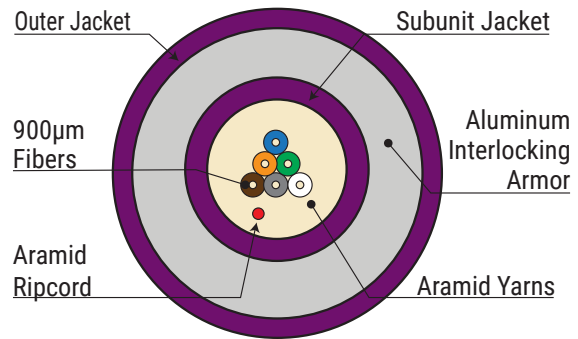
Cleerline BendSafe® multimode is fully compatible with all common connector systems for standard 50/125 multimode fiber.



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 50/125 multimode.
- 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)
TA006M4D9MP	6 Fibers	6 Strand BendSafe®- 1000 ft Spool	Plenum	15.4 mm	130
TA006M4D9MP-B	6 Fibers	6 Strand BendSafe®- Cut to Order	Plenum	15.4 mm	130
TA012M4D9MP	12 Fibers	12 Strand BendSafe® - 1000 ft Spool	Plenum	15.4 mm	138
TA012M4D9MP-B	12 Fibers	12 Strand BendSafe® - Cut to Order	Plenum	15.4 mm	138
TA024M4D9MP	24 Fibers	24 Strand BendSafe®- 1000 ft Spool	Plenum	16.2 mm	149
TA024M4D9MP-B	24 Fibers	24 Strand BendSafe®- Cut to Order	Plenum	16.2 mm	149

FIBER	
Fibers	6, 12 & 24
Type	50/125 multimode OM4
Color Coding	Per TIA/EIA 598C

JACKET	
Type	Plenum Rated PVC (Indoor)
Color	Magenta
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 @ 850 nm and 1300 nm -60 °C to +85 °C	≤ 0.1 dB/km
Temperature and Humidity Cycling Test @ 850 nm and 1300 nm -10 °C to +85 °C, 4% - 90% RH	≤ 0.1 dB/km
Damp Heat Dependence Test @ 850 nm and 1300 nm +85 °C, 85% RH for 30 days	≤ 0.1 dB/km
Dry Heat Dependence Test @ 850 nm and 1300 nm +85 °C for 30 days	≤ 0.1 dB/km
Watersoak Dependence Test @ 850 nm and 1300 nm +20 °C for 30 days	≤ 0.1 dB/km

BACKSCATTER CHARACTERISTICS		
Attenuation Uniformity	≤ 0.08 dB/km	
Group Index of Refraction	850 nm	1.482
	1300 nm	1.477

PHYSICAL CHARACTERISTICS		
Core / Cladding Concentricity Error	≤ 1.0 µm	
Core Diameter	50.0 ± 2.5 µm	
Core Non-Circularity	≤ 5%	
Cladding Diameter	125 ± 1 µm	
Cladding Non-Circularity	≤ 1.0%	
UV Acrylate Coating Diameter	245 ± 7 µm	
Coating Strip Force	Average	1.5 N
	Peak	≥ 1.3, ≤ 8.9 N
Fiber Curl	≥ 4 m	
Proof Test	100 kpsi	
Bend Induced Attenuation	2 turns around a mandrel of 15 mm @ 850 nm / 1300 nm	≤ 0.1 / 0.3 dB
	2 turns around a mandrel of 7.5 mm @ 850 nm / 1300 nm	≤ 0.2 / 0.5 dB
Length (typical)	1.1 ~ 8.8 km	

OPTICAL CHARACTERISTICS		
Attenuation Coefficient	850 nm	≤ 2.4 dB/km
	1300 nm	≤ 0.6 dB/km
Numerical Aperture	0.200 ± 0.015	
Overfilled Launch Bandwidth (OFL BW)	850 nm	≥ 3500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 4700 MHz · km

COMPLIANCE	
UL Listed Type ICEA S-83-596 & OFNP, CSA FT6, GR-409.	
BendSafe® 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.	