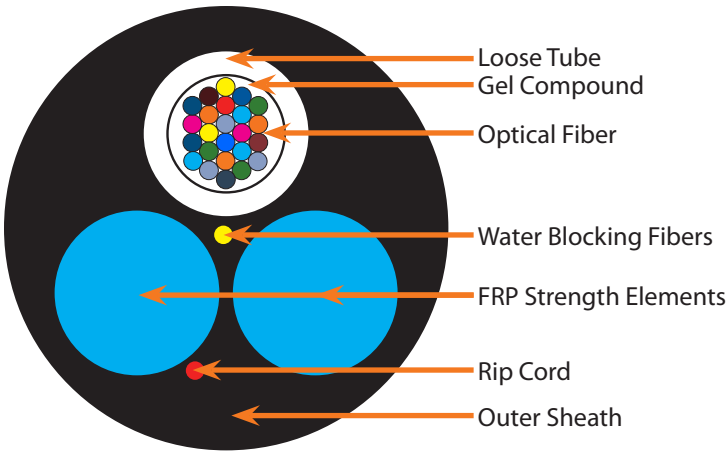
Aerial Self-Supported ASU-L Fiber Optic Cable - Light Wind Load

Product Specifications

Parameter		Specification		
# of Fibers		1-12	1-12	24
Span		80 Meters	120 Meters	
Fiber Type		G.652D - Singlemode		
Loose Tube	Material	Polybutylene Terephthalate (PBT)		
	Diameter	1.8±0.1 mm	2.0±0.1 mm	3.0±0.1 mm
	Color	White		
	Filling	Thixotropic Gel		
Strength Member	Material	Fiber Reinforced Polymer (FRP) x 2		
	Diameter	1.8±0.1 mm	2.0±0.1 mm	
Outer Sheath	Material	Medium-Density Polyethylene (MDPE)		
	Diameter	6.6±0.3 mm	7.2+/-0.3	7.8+/-0.3
Rip Cord	Color	Red		
	Number	1		
Water Blocking		Water Blocking Fibers		
Cable Diameter		6.6 ±0.2 mm	7.2+/-0.3	7.8+/-0.3
Cable Weight		45 ±5.0 kg/km	48 ±5.0 kg/km	52 ±5.0 kg/km
Allowable Tensile Strength	Short Term	800N	1200N	
	Long Term	400N	600N	
Allowable Crush Resistance	Short Term	1000N/100mm		
	Long Term	300N/100mm		
Temperature Range	Installation	-10 ~ +50°C (-14 ~ 122°F)		
	Transport / Storage	-40 ~ +60°C (-40 ~ 140°F)		
	Operation	-40 ~ +60°C (-40 ~ 140°F)		



FEATURES:

- Proven all-dielectric loose tube construction
- Immune to electromagnetic fields
- Fast, one-step installation
- Integrated FRP strength elements
- Round cable profiles minimize wind and ice loading
- Light wind load applications

BENEFITS:

- Can be co-located on electrical poles
- Eliminates the need for expensive cable shielding and grounding
- Uses simple attachment hardware (no pre-installed messenger)
- Outstanding cable performance and stability

MADSS-ASU-L-12-120M

- 120: Meter Span: 80, 120
- 12: Fiber Count: 1-12, 24

www.multicominc.com

Multicom, Inc.
Ph: 800-423-2594 / 407-331-7779
Fax: 407-339-0204
Email: multicom@multicominc.com

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Specification of Singlemode Optical Fiber (G.652.D)	
Fiber Type / Material	Singlemode / Doped Silica
Attenuation Coefficient	@1310nm: ≤0.36dB/Km @1383nm: ≤0.32dB/Km @1550nm: ≤0.22dB/Km @1625nm: ≤0.25dB/Km
Point Discontinuity	≤0.05dB
Cable Cut-off Wavelength	≤1260nm
Zero-dispersion Wavelength	1300 ~ 1324nm
Zero-dispersion Slope	≤ 0.092 ps/(nm^2.km)
Chromatic Dispersion	@1288 ~ 1339nm: ≤3.5ps/(nm.Km) @1271 ~ 1360nm: ≤5.3ps/(nm.Km) @1550nm: ≤18ps/(nm.Km) @1625nm: ≤22ps/(nm.Km)
PMDQ (Quadrature average*)	≤ 0.2 ps/Km$^{1/2}$
Mode Field Diameter @ 1310nm	9.2 ±0.4um
Core / Clad Concentricity Error	≤0.5um
Cladding Diameter	125.0 ±0.7um
Cladding Non-circularity	≤1.0%
Primary Coating Diameter	245 ±10um
Proof Test Level	100 kpsi (=0.69 Gpa), 1%
Temperature Dependence	0°~ +70°C @ 1310 & 1550nm: ≤0.1dB/Km

Mechanical& Environmental Performance Testing		
Test	**Test Method**	**Acceptance Condition**
Tensile Strength	Load 400N (800N) for 10 minutes Variation of attenuation: ≤0.1dB Fibers strain: ≤0.33%	IEC 60794-1-2-EIA IEC 60794-1-2-EIB IEC 60794-2-50
Crush Test	Load 300N for 3 minutes Variation of attenuation: ≤0.1dB	IEC 60794-1-2-E3 IEC 60794-2-50
Impact Test	Energy=1 J on surface of 12.5mm radius, 3 times Variation of attenuation: ≤0.1dB	IEC 60794-1-2-E4 IEC 60794-2-50
Temperature Cycling Test	Range -40°/+70°C @1550nm Variation of attenuation: ≤0.1dB	IEC 60794-1-2-F1 IEC 60794-2-20

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