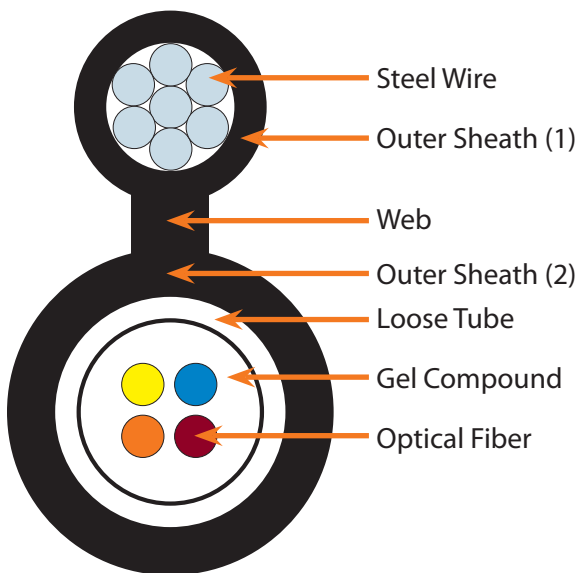




Aerial Steel Strand Support Fiber Optic Cable Product Specifications

Parameter		Specification			
# of Fibers		2	4	6	8-12
Fiber Type		G.652D			
Loose Tube	Material	PBT			
	Diameter (±0.06) mm	1.8			2.0
	Thickness (±0.03) mm	0.30			0.32
Messenger Wire	Material	Galvanized Steel Strand			
	Size (±0.1) mm	R7 x 0.9			
Web	Material	Medium-density Polyethylene (MDPE)			
	Diameter (±0.05) mm	2.0 x 3.0			
Outer Sheath (1)	Material	MDPE			
	Thickness (±0.02) mm	1.0±0.1 mm			
Outer Sheath (2)	Material	MDPE			
	Thickness (±0.02) mm	1.6			
Cable Diameter (±0.5) (W×H in mm)		5.0 x 13.7			5.2 x 13.9
Cable Weight (±10Kg)		63			65
Min. Bending Radius	Without Tension	10.0 x Cable diameter			
	Maximum Tension	20.0 x Cable diameter			
Temperature Range	Installation	-20 ~ +60°C (-4 ~ 140°F)			
	Transport / Storage	-40 ~ +70°C (-40 ~ 158°F)			
	Operation	-40 ~ +70°C (-40 ~ 158°F)			



FEATURES:

- Full section water blocking ensures good water and moisture resistance
- Loose sleeve filled with gel compound for critical fiber protection
- 8-shaped self-supporting structure with high tensile strength, easy to install overhead, low cost
- Longitudinal steel wire gives better cable resistance to tensile and lateral forces
- Polyethylene sheath for UV resistance
- Product life up to 30 years

APPLICATIONS:

- Core Network, Metropolitan Area Network, and Access Network Outdoor Optical Cable
- Working temperature: -40°~+70° (-40 ~ 158°F)
- Bend radius: Static 12.5 times the cable diameter
- Dynamic 25 times optical cable diameter

MASSX-012SM-D

Fiber Count: 2, 4, 6, 8-12

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Aerial Steel Strand Support Fiber Optic Cable

Product Specifications

Specification of Singlemode Optical Fiber (G.652.D)

Specification	Parameter
Fiber Type / Material	Singlemode / Doped Silica
Attenuation Coefficient	@1310nm: ≤0.35dB/Km @1383nm: ≤0.32dB/Km @1550nm: ≤0.21dB/Km @1625nm: ≤0.24dB/Km
Point Discontinuity	≤0.05 dB
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)
PMD _Q (Quadrature average*)	≤ 0.2 ps/Km ^{1/2}
Mode Field Diameter @ 1310nm	9.2 ±0.4 μm
Core / Clad Concentricity Error	≤0.5μm
Cladding Diameter	125.0 ±0.7μm
Cladding Non-circularity	≤1.0%
Primary Coating Diameter	245 ±10μm
Proof Test Level	100kpsi (=0.69 Gpa), 1%
Temperature Dependence	0°~ +70°C @ 1310 & 1550nm: ≤0.1dB/Km

Specification	Parameter	
Allowable Tensile Strength	Short Term	2700 N
	Long Term	900 N
Allowable Crush Resistance	Short Term	1000 (N/100mm)
	Long Term	300 (N/100mm)

Mechanical & Environmental Performance Testing

Test	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	Load: Short term tension Length of cable: About 50m	Fiber strain ≤0.33% Loss change ≤0.1 dB @1550 nm No fiber break and no sheath damage
Crush Test IEC 60794-1-2-E3	Load: Short term crush Load time: 1min	Loss change ≤0.05dB@1550nm No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	Points of impact: 3 Times per point: 1 Impact energy: 5J	Loss change ≤0.1dB@1550nm No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4.1	Temperature step: +20°C -> -40°C -> +70°C -> +20°C Time per each step: 12 hrs Number of cycles: 2	Loss change ≤0.05 dB/km@1550 nm No fiber break and no sheath damage

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