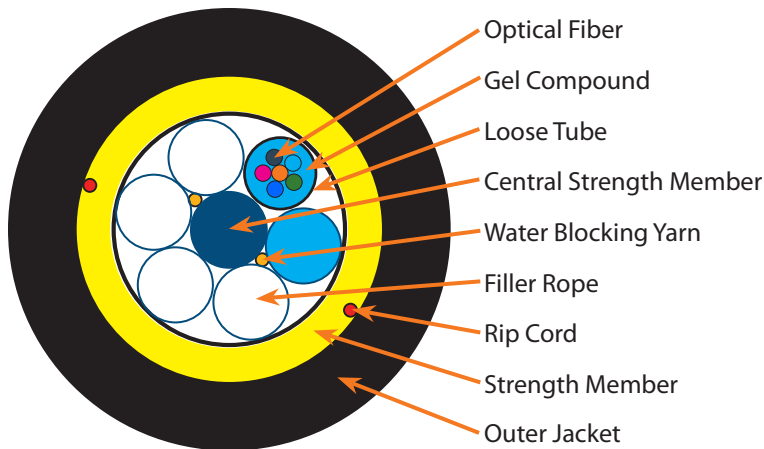




# Aerial Self-Supported Fiber Optic Cable - ADSS - 100 & 200 Meter Span

## Product Specifications

Parameter		Specification					
# of Fibers		12	24	48	96	144	288
Fiber Type		G.652D					
Design (Strength Member + Tube & Filler)		1+5	1+5	1+5	1+8	1+12	1+9+15
Central Strength Member	Material	Fiber Reinforced Polymer (FRP) / FRP + Polyethylene (PE)					
	Diameter (±0.05) mm	1.5	1.5	1.5	3.0	6.0	4.1
Filler Rope	Material	Polypropylene (PP)					
	Diameter (±0.05) mm	1.8	1.8	2.0	-	-	-
	Number	3	1	1	-	-	-
Loose Tube	Material	Polybutylene Terephthalate (PBT)					
	Diameter (±0.06) mm	1.8	1.8	2.0	2.0	2.0	2.0
	Thickness (±0.03) mm	0.3					
	Number	2	4	4	8	12	24
	Max Core Number/Tube	6	6	12	12	12	12
Water Blocking Layer (material)		Water Blocking Yarn					
Strength member (material)		Aramid Yarn					
Ripcord (number)		2					
Outer Jacket	Material	Medium Density Polyethylene (MDPE), U.S. Option: High Density Polyethylene (HDPE)					
	Thickness (±0.1mm)	1.5					
Cable Diameter (±0.2mm) 100M / 200M		8.8 / 9.0	8.8 / 9.0	9.2 / 9.4	10.9 / 11.1	13.8 / 14.0	16.1 / 16.3
Max. Allowable Pull Force (KN) 100M / 200M		3.6 / 6.0					
Crush Resistance N/100mm		1,000					
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:

- 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

### BENEFITS:

- Eliminates the need for expensive cable shielding and grounding
- Uses simple attachment hardware (no pre-installed messenger)
- Outstanding cable performance and stability

### MADSS-024-100M-D-US

U.S. Option: HDPE Jacket  
 Span in Meters: 100, 200  
 Fiber Count: 12, 24, 48, 96, 144, 288

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# Aerial Self-Supported Fiber Optic Cable - ADSS - 100 & 200 Meter Span

## Product Specifications

Specification of Singlemode Optical Fiber (G.652.D)	
Fiber Type / Material	Singlemode / Doped Silica
Attenuation Coefficient	@1310nm: ≤0.36dB/Km @1383nm: ≤0.35dB/Km @1550nm: ≤0.22dB/Km @1625nm: ≤0.25dB/Km
Point Discontinuity	≤0.05 dB
Cable Cut-off Wavelength	≤1260nm
Zero-dispersion Wavelength	1300 ~ 1324nm
Zero-dispersion Slope	≤ 0.092 ps/(nm <sup>2</sup> .km)
PMD <sub>Q</sub> (Quadrature average*)	≤ 0.2 ps/Km <sup>1/2</sup>
Mode Field Diameter @ 1310nm	9.2 ±0.4 μm
Core / Clad Concentricity Error	≤0.6μm
Cladding Diameter	125.0 ±1μm
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

### Fiber Colors

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

### Loose Tube Colors (12-144 Fibers)

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

### Loose Tube Colors (288 Fibers)

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Blue	Orange	Green
No.	13	14	15	16	17	18
Color	Brown	Gray	White	Red	Black	Yellow
No.	19	20	21	22	23	24
Color	Violet	Pink	Aqua	Blue	Orange	Green

### MADSS-024-100M-D-US

U.S. Option: HDPE Jacket  
Span in Meters: 100, 200  
Fiber Count: 12, 24, 48, 96, 144, 288

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