Aerial Self-Supported Fiber Optic Cable

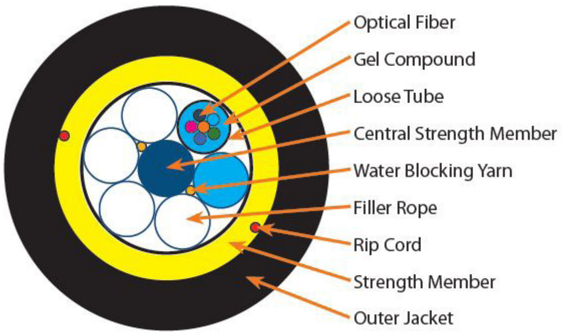
ADSS - 100 & 200 Meter Span
NT-ADSS-xxx-yM-DM - xxx=fiber count, y=length in meters

Description:

Multicom's ADSS cables feature a dry core design and the high-tension strength capability required for installation in the toughest environmental and electrical conditions. We stock a wide variety of All-Dielectric Self-Supporting (ADSS) Aerial Cable to meet the demanding needs of any transmission and distribution environment. This high-capacity cable offers great flexibility for placement on overhead transmission towers, eliminating the need for a support messenger.

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

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 + Polyethlene (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					
Tempurature Range	Installation	-20 ~ +60°C (-4 ~ 140°F)					
	Transport / Storage	-40 ~ +70°C (-40 ~ 158°F)					
	Operation	-40 ~ +70°C (-40 ~ 158°F)					

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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: ≤0.35dB/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/(nm2.km)
PMDQ (Quadrature average*)	≤ 0.2 ps/Km1/2
Mode Field Diameter @1310nm	9.2 ±0.4 um
Core / Clad Concentricity Error	≤0.6um
Cladding Diameter	125.0 ±1um
Cladding Non-circularity	≤1.0%
Primary Coating Diameter	245 ±10um
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