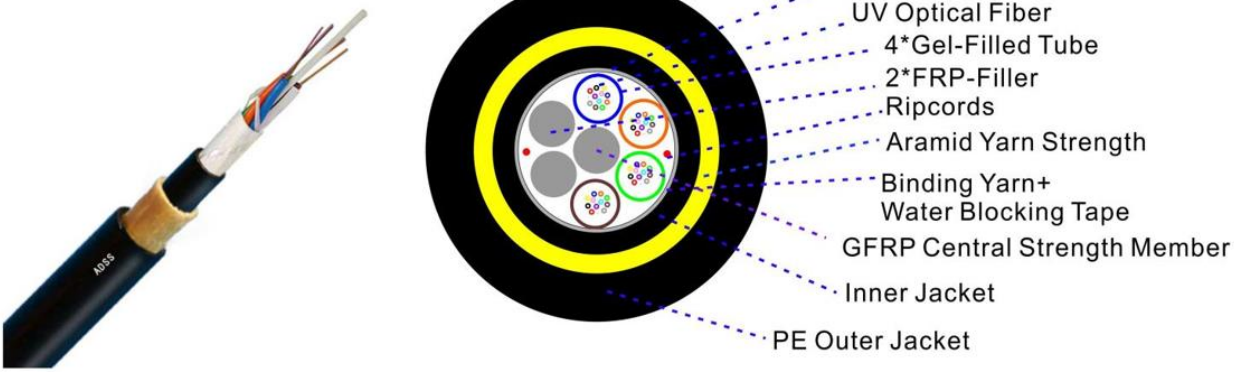
ADSS-09G652XXX-DJ150Z-CN

ADSS All Dielectric Self-Supporting Cable Span 150m Double Jacket Desing.



***Images are purely used as reference**

Our standard ADSS optic cable (150-meter span) features a double jacket with a loose tube made of thermoplastic material, which contains optical fiber and is filled with gel. It includes thermoplastic rods as filler elements and glass fiber-reinforced plastic rods as central strength members, coated with polyethylene for cables with 96 cores or more.

Features:

OPTICAL PROPERTIES		
Fiber Type	ITU-T Rec. Low Water Peak (LWP) - G652D	
Fiber yarn count	06F/ 24F / 48F/ 96F	
Attenuation coefficient	1310nm	< 0.35 dB/Km
	1550nm	< 0.21 dB/Km
	1625nm	< 0.22 dB/Km
Point discontinuity	≤ 0.05 dB	
Diameter of modal field	Wavelength: 1310nm, 1550nm, 1625nm	
	Nominal range: ≤ 8.6±0.4; 9.8±0.4μm	
Cladding diameter (nominal)	125 mm ± 0,5 mm	
Primary coating diameter	245 ± 10 um	
Cut-off wavelength	Max: 1260 nm	
PMD coefficient (Polarization Mode Dispersion)	Max: 0,20 ps/√ km	

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TECHNICAL PROPERTIES			
Optical Fibers	All Performance Meets ITU-T Technical Standards		
External covering material	Borealis High-Density Polyethylene HDPE UV-Resistant		
Internal covering material	Borealis High-Density Polyethylene HDPE		
Dielectric Strength Member	ADSS-09G652024-DJ150Z-CN	ADSS-09G652048-DJ150Z-CN	ADSS-09G652096-DJ150Z-CN
	Aramid Yarm 6*3300Dtex	Aramid Yarm 8*3300Dtex	Aramid Yarm 6*3300Dtex
Internal cable structure - Loose tube	ADSS-09G652006-DJ150Z-CN	6F X 1 Loose Tube 5 Fillers	
	ADSS-09G652024-DJ150Z-CN	6F X 4 Loose Tube 2 Fillers	
	ADSS-09G652048-DJ150Z-CN	12F X 4 Loose Tube 2 Fillers	
	ADSS-09G652096-DJ150Z-CN	12F X 8 Loose Tube 0 Fillers	
Loose tube - Outer diameter (mm)	Loose tube - Diameter		
	ADSS-09G652006-DJ150Z-CN	1.9 ± 0.1 mm	
	ADSS-09G652024-DJ150Z-CN	1.9 ± 0.1 mm	
	ADSS-09G652048-DJ150Z-CN	2.1 ± 0.1 mm	
	ADSS-09G652096-DJ150Z-CN	2.1 ± 0.1 mm	
Central member structure (CSM)	Glass Fiber Reinforced Plastic rod (GFRP)		
	ADSS-09G652006-DJ150Z-CN	2.0 ± 0.1 mm	
	ADSS-09G652024-DJ150Z-CN	2.0 ± 0.1 mm	
	ADSS-09G652048-DJ150Z-CN	2.3 ± 0.1 mm	
	ADSS-09G652096-DJ150Z-CN	3.7 ± 0.1 mm	
Configuration of the internal cable structure	SZ Braided, Thermoplastic Cylinders		
Losse Tube Filling	Thixotropic Gel Compound		
Tube Structure	Polybutylene terephthalate (PBT)		

ADSS-09G652XXX-DJ150Z-CN

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Cable Diameter (mm) cable OD)	ADSS-09G652006-DJ150Z-CN	12.16 ± .45 mm
	ADSS-09G652024-DJ150Z-CN	12.16 ± .45 mm
	ADSS-09G652048-DJ150Z-CN	13.0 ± .45 mm
	ADSS-09G652096-DJ150Z-CN	14.5 ± .45 mm
Ripcord	2 Nos. below armor	
Water Blocking Material	Core wrapping	Water blocking tape
	Water blocking media	Water Swellable Yarn Over CSM
Color code	TIA 598 D Standard: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose (Pink), Aqua	
Temperature range (IEC 60794-1-F1)	Operation	-60° to +85°C
	Installed	-60° to +85°C
	Storage and Shipping	-60° to +85°C
Tube filling compound	Water Blocking & Moisture Proof Thyrotrophic gel	
Filler	PP Diameter same as tube	
Water blocking tape	0.28mm thickness	
Working Tension (MAT)	ADSS-09G652006-DJ150Z-CN	2690N
	ADSS-09G652024-DJ150Z-CN	2690N
	ADSS-09G652048-DJ150Z-CN	3573N
	ADSS-09G652096-DJ150Z-CN	3573N
Drum length x Km	ADSS-09G652006-DJ150Z-CN	114 Km ± 2Kg/Km
	ADSS-09G652024-DJ150Z-CN	114 Km ± 2Kg/Km
	ADSS-09G652048-DJ150Z-CN	126 Km ± 2Kg/Km
	ADSS-09G652096-DJ150Z-CN	158 Km ± 2Kg/Km
Cable SPAN	150 m.	

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Product complies with the following Standards						
ITU-T G.652.D | EIA/TIA 598 | IEC 60794 | IEEE1222-2004						
Fibers Color Standard Sequence						
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

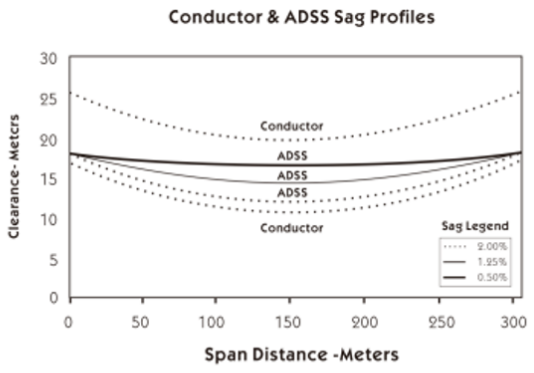
High-Quality Raw Materials

All materials use High-Quality raw materials:
1. Optical Fibers:
   All Performance Meets ITU-T Technical Standards
2.Tube Filling: Thixotropic Gel Compound
3.Loose Tube: Polybutylene terephthalate (PBT)
4. Central Dielectric Strength Member:
   Fiberglass Reinforced Plastic (FRP)
5. Filler: FRP with the same Diameter as Tubes
6.Waterblocking Yarn:
   Polyester filament, polymer expandable water absorbent resin
7.Water Swellable Tape:
   Polyester non-woven fabric, super absorbent resin, adhesive
8.Binder: Polyethylene Terephthalate (Polyester Yarn)
9. Ripcord: High strength tear rope
10.Dielectric Strength Member: Aramid Yarn1414,
Para-Aramid Fiber Yarn (PPTA)Tensile modulus ≥120Gpa
11.Outer Jacket: Borealis High-Density Polyethylene

Main Optical Fiber Characteristics

1.Fibers: ITU-T G.652.D.
   Dimensions: 9/125/250±5μm
2.Recommended Band: @1310nm @1550nm
   O:1260-1360(Zero Dispersion Wavelength)
   C: 1530-1565 (Minimum attenuation)
3. Core / Cladding Concentricity Error≤0.4μm.
   (0.7%)
4. Attenuation
   Coefficient: @1310;1550nm≤0.35;0.21dB/km
5.Mode Field Diameter:
   @1310;1550nm≤8.6±0.4;9.8±0.4μm
6.Point Discontinuity: @1310;1550nm≤0.05dB
7.Cable Cut-off wavelength (λ cc): ≤1260nm
8.Fiber Strain: ≥1%; Fiber Load≥9N
9.Temperature Cycling (-60℃~+85℃):
   ≤0.05dB/km
10.Macro Bending Loss: 100turns of 30mm
Radius≤0.05

Weather Conditions & Main Install Info Parameters



1.Wind speed=25m/s, Ice=0mm
2.Max Applied Voltage: ≤110kv; Installation 3.
Temperature: -25~+65℃
4.Bending Radius: ≥10×Out Diameter
   (Static10D/Dynamic20D)
5.RTS: Rated tensile Strength.
   (Break Strength) (KN/ N/mm²)
6.UTS: Ultimate Tensile
   Strength(60%RTS) (KN/ N/mm²)
7.MAT: Max allowable working tension
   (40%RTS)
8.EDS: Everyday Strength
   (16-25%RTS) (KN/ N/mm²)
9. Sag=0.5%(80-120mSpan).
   1.0%(150-300mSpan);
10.Wind Load Formula:
   W=C1*(D+2t) *V^2*α /16000 (α value=0.85)
11.Aramind Yarn Tensile modulus ≥120Gpa
12.Under MAT: Fiber strain: ≤0.05% (Stranded
   Loose Tube) ≤0.1% (Uni-tube)