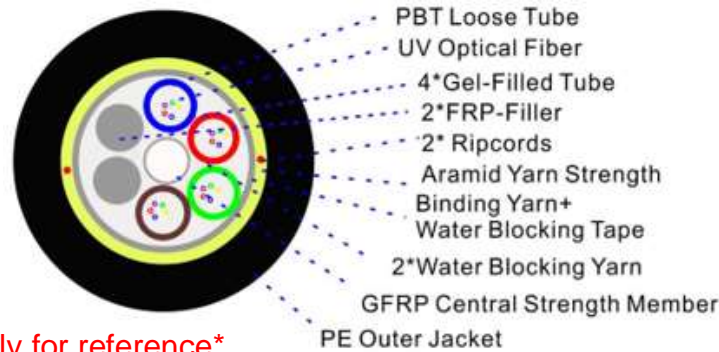


ADSS-09G652XXX-SJ100LZ-CN

ADSS Optic Cable G652 9/125 – Single Jacket/ 100-meter Span



Images used solely for reference*

Our Standard ADSS Optic Cable (100-meter span) offers a thermoplastic material loose tube, containing optical fiber and filled with gel. It features thermoplastic rods as filler elements and glass fiber reinforced plastic rods as central strength members coated with polyethylene from 06 up to 48 fibers.

Features:

OPTICAL PROPERTIES		
Fiber Type	ITU-T Rec. Low Water Peak (LWP) - G652D	
Fiber yarn count	06F/ 12F / 24F / 48F	
Attenuation coefficient	1310nm	< 0.34 dB/Km
	1550nm	< 0.20 dB/Km
Point discontinuity	≤ 0.05 dB	
Diameter of modal field	Wavelength: 1310nm, 1550nm, 1625nm	
	Nominal range: 9.2 um Tolerance: ± 0.4 um	
Cladding diameter (nominal)	125 mm ± 1 um	
Primary coating diameter	245 ± 5 um	
Cut-off wavelength	Max: 1260 nm	
PMD coefficient (Polarization Mode Dispersion)	Max: 0,20 ps/√ km	
TECHNICAL PROPERTIES		
External covering material	HDPE	
Outer jacket color	Black	
Jacket protection	UV resistant	
Max. fiber counts/tube	ADSS-09G652012-SJ100LZ-CN	(2 buffer with 6 threads)
	ADSS-09G652024-SJ100LZ-CN	(4 buffer with 6 threads)
	ADSS-09G652048-SJ100LZ-CN	(6 buffer with 8 threads)
Structure Inside of the Cable	12F (6T+1FRP), 24 (6T+1FRP), 48 (6T+1FRP)	

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Loose tube - Outer diameter (mm)	ADSS-09G652012-SJ100LZ-CN	2.1 ± 0.1 mm
	ADSS-09G652024-SJ100LZ-CN	2.1 ± 0.1 mm
	ADSS-09G652048-SJ100LZ-CN	2.1 ± 0.1 mm
Central member structure (CSM)	Glass Fiber Reinforced Plastic rod (GFRP)	
	ADSS-09G652012-SJ100LZ-CN	2.1 ± 0.1 mm
	ADSS-09G652024-SJ100LZ-CN	2.1 ± 0.1 mm
	ADSS-09G652048-SJ100LZ-CN	2.1 ± 0.1 mm
Configuration of the internal cable structure	SZ Braided, Thermoplastic Cylinders	
Outer Sheath	Thickness (mm)	1.9 ± 0.1 mm
Tube Structure	Material	Colors of tubes PTB
Diameter of the Cable of Optical Fiber	ADSS-09G652012-SJ100LZ-CN	10.7 ± .20 mm
	ADSS-09G652024-SJ100LZ-CN	10.7 ± .20 mm
	ADSS-09G652048-SJ100LZ-CN	10.7 ± .20 mm
Ripcord	2 Nos. 2*3000Dtex	
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	-40° to +70°C
	Installed	-40° to +70°C
	Storage and Shipping	-40° to +70°C
	Sample length: at least 1000m Temperature range: -10°C~+70°C Cycles: 2 Temperature cycling Test dwell time: 12 hours	The change in attenuation coefficient shall be less than 0.1 dB/km
Tube filling compound	Water Blocking & Moisture Proof Thyrotrophic gel	
Filler	PP Diameter same as tube	
Water blocking tape	0.28mm thickness	

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Working Tension (MAT)	ADSS-09G652012-SJ100LZ-CN	2100N
	ADSS-09G652024-SJ100LZ-CN	2100N
	ADSS-09G652048-SJ100LZ-CN	2100N
Dielectric Strength Members	Aramid Yarns 1670Dtex	
Drum length x Km	ADSS-09G652012-SJ100LZ-CN	4 Km
	ADSS-09G652024-SJ100LZ-CN	4 Km
	ADSS-09G652048-SJ100LZ-CN	4 Km
Cable SPAN	100 Mt. SPAN	
Wight / Km	ADSS-09G652012-SJ100LZ-CN	83 ± 2Kg/Km
	ADSS-09G652024-SJ100LZ-CN	83 ± 2Kg/Km
	ADSS-09G652048-SJ100LZ-CN	83 ± 2Kg/Km
Climate Condition	No Ice, 25m/s Max Wind Speed	
Tension – IEC 60794-1-2-E1	IEC 60794-1-2-E1 Load: According to 3.5 Sample length: Not less than 50m. Duration time: 1min.	
Crush – IEC 60794-1-2-E3	IEC 60794-1-2-E3 Load: According to 3.5 Duration of load: 1min	
Bending radius IEC 60794-1-E11A	IEC 60794-1-2-E11A Mandrel radius: 10*D Turns:4 Cycles:3	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
Impact Test IEC 60794-1-E4	IEC 60794-1-2-E4 Radius: 300 mm Impact energy: 10 J Impact number: 1 Impact points: 3	Loss change 0.1 dB @1550 nm
		No fiber break and no sheath damage.
Repeated Bending IEC 60794-1-E6	Bending Dia.: 20 x D	Loss change 0.1 dB @1550 nm
	Load: 150N	
	Flexing rate: 3sec/cycle No. of cycle: 25	No fiber break and no sheath damage.

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ADSS Optic Cable G652 9/125 – Single Jacket/ 100-meter Span



Torsion IEC 60794-1-E7	Length: 1m	Additional attenuation: ≤0.1dB No damage to outer jacket and inner elements
	Load: 150N	
	Twist rate: 1min/cycle	
	Twist angle: ±180°	
	No. of cycles: 10	
Water Penetration - IEC 60794-1-2-F1	IEC 60794-1-2-F1 Sample length: at least 1000m Temperature range: -10°C~+70°C Cycles: 2 Temperature cycling test dwell time: 12 hours	No water leakage.

Fiber color and Binder color code: according to EIA/TIA 598D

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