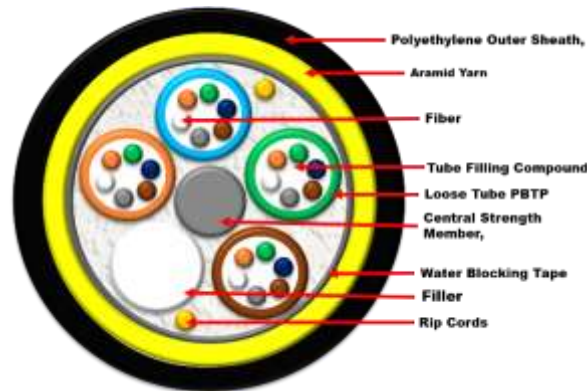


ADSS-09G652XXX-SJ100Z-CN

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



Our Standard ADSS Optic Cable (100-meter span) offers 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 for the fiber of 144 cores or more.

Features:

OPTICAL PROPERTIES	
Fiber Type	ITU-T Rec. Low Water Peak (LWP) - G652D
Fiber yarn count	06F/ 12F / 24F / 48F/ 96F/ 144F
Attenuation coefficient	1310nm < 0.36 dB/Km
	1550nm < 0.23 dB/Km
	1625nm < 0.22 dB/Km
Point discontinuity	≤ 0.05 dB
Diameter of modal field	Wavelength: 1310nm, 1550nm, 1625nm
	Nominal range: 9.2mm Tolerance: ± 0.4mm
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
TECHNICAL PROPERTIES	
External covering material	HDPE
Outer jacket color	Black
Jacket protection	UV resistant

ADSS-09G652XX-SJ100Z-CN

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



Internal cable structure - Loose tube	ADSS-09G652006-SJ100Z-CN	(1 buffer with 6 threads)
	ADSS-09G652012-SJ100Z-CN	(2 buffer with 6 threads)
	ADSS-09G652024-SJ100Z-CN	(4 buffer with 6 threads)
	ADSS-09G652048-SJ100Z-CN	(4 buffer with 12 threads)
	ADSS-09G652096-SJ100Z-CN	(8 buffer with 12 threads)
	ADSS-09G652144-SJ100Z-CN	(12 buffer with 12 threads)
Loose tube - Outer diameter (mm)	Loose tube - Diameter	
	ADSS-09G652006-SJ100Z-CN	1.9 ± 0.1 mm
	ADSS-09G652012-SJ100Z-CN	1.9 ± 0.1 mm
	ADSS-09G652024-SJ100Z-CN	1.9 ± 0.1 mm
	ADSS-09G652048-SJ100Z-CN	2.15 ± 0.1 mm
	ADSS-09G652096-SJ100Z-CN	2.15 ± 0.1 mm
	ADSS-09G652144-SJ100Z-CN	2.15 ± 0.1 mm
Central member structure (CSM)	Glass Fiber Reinforced Plastic rod (GFRP)	
	ADSS-09G652006-SJ100Z-CN	2 ± 0.10 mm
	ADSS-09G652012-SJ100Z-CN	2 ± 0.10 mm
	ADSS-09G652024-SJ100Z-CN	2 ± 0.10 mm
	ADSS-09G652048-SJ100Z-CN	2.3 ± 0.10 mm
	ADSS-09G652096-SJ100Z-CN	3.5 ± 0.10 mm
	ADSS-09G652144-SJ100Z-CN	6.4 ± 0.10 mm
Configuration of the internal cable structure	SZ Braided, Thermoplastic Cylinders	
Outer Sheath	Thickness (mm)	1.8 ± 0.1 mm

ADSS-09G652XXX-SJ100Z-CN

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



Tube Structure	Material	Colors of tubes PTB
Cable Diameter (mm)cable OD)	ADSS-09G652006-SJ100Z-CN	9.4 ± .45 mm
	ADSS-09G652012-SJ100Z-CN	9.4 ± .45 mm
	ADSS-09G652024-SJ100Z-CN	9.4 ± .45 mm
	ADSS-09G652048-SJ100Z-CN	10.5 ± .45 mm
	ADSS-09G652096-SJ100Z-CN	11.6 ± .45 mm
	ADSS-09G652144-SJ100Z-CN	14.6 ± .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	
Cable breaking strength (RTS)≥	ADSS-09G652006-SJ100Z-CN	4520N
	ADSS-09G652012-SJ100Z-CN	4520N
	ADSS-09G652024-SJ100Z-CN	4520N
	ADSS-09G652048-SJ100Z-CN	6300N
	ADSS-09G652096-SJ100Z-CN	10328N
	ADSS-09G652144-SJ100Z-CN	11250N
Temperature range (IEC 60794-1-F1)	Operation	-20° to +65°C
	Installed	-20° to +65°C
	Storage and Shipping	-20° to +65°C
Tube filling compound	Water Blocking & Moisture Proof Thyrotrophic gel	

ADSS-09G652XX-SJ100Z-CN

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



Filler	PP Diameter same as tube	
Water blocking tape	0.28mm thickness	
Working Tension (MAT)	ADSS-09G652006-SJ100Z-CN	1808N
	ADSS-09G652012-SJ100Z-CN	1808N
	ADSS-09G652024-SJ100Z-CN	1808N
	ADSS-09G652048-SJ100Z-CN	2520N
	ADSS-09G652096-SJ100Z-CN	4131N
	ADSS-09G652144-SJ100Z-CN	4500N
Dielectric Strength Members	Aramid Yarns 1670Dtex	
Drum length x Km	ADSS-09G652006-SJ100Z-CN	4 Km ± 5%
	ADSS-09G652012-SJ100Z-CN	4 Km ± 5%
	ADSS-09G652024-SJ100Z-CN	4 Km ± 5%
	ADSS-09G652048-SJ100Z-CN	4 Km ± 5%
	ADSS-09G652096-SJ100Z-CN	3 Km ± 5%
	ADSS-09G652144-SJ100Z-CN	2 Km ± 5%
Cable SPAN	100 Mt. SPAN	
GW/Reel	ADSS-09G652006-SJ100Z-CN	325 Kg
	ADSS-09G652012-SJ100Z-CN	325 Kg
	ADSS-09G652024-SJ100Z-CN	325 Kg
	ADSS-09G652048-SJ100Z-CN	369 Kg
	ADSS-09G652096-SJ100Z-CN	365 Kg
	ADSS-09G652144-SJ100Z-CN	326 Kg
Climate Condition	No Ice,25m/s Max Wind Speed	

ADSS-09G652XXX-SJ100Z-CN

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



Repeated bending IEC 60794-1-2-E6	25 Cycle, $r = 20 \times D$, 5 Kg, $D = \text{Cable Diameter}$	
Bending radius IEC 60794-1-E11	Load: 5000 N	Loss change 0.1 dB @ 1550 nm
	Length of cable under load: 50m	No fiber break and no sheath damage.
Crush Test IEC 60794-1-E3	Load: 3000 N/100mm	Loss change 0.1 dB @ 1550 nm
	Load time: ≥ 1 min	No fiber break and no sheath damage.
Impact Test IEC 60794-1-E4	Points of impact: 5	Loss change 0.1 dB @ 1550 nm
	Times of per point: 5	
	Impact energy: 4.5Nm	
	Radius of hammer head: 12.5mm	No fiber break and no sheath damage.
	Impact rate: 2sec/cycle	
Repeated Bending IEC 60794-1-E6	Bending Dia.: $20 \times OD$	Loss change 0.1 dB @ 1550 nm
	Load: 250N	
	Flexing rate: 3sec/cycle	No fiber break and no sheath damage.
	No. of cycle: 30	
Torsion IEC 60794-1-E7	Length: 1m	No water shall have leaked from the opposite end of cable
	Load: 150N	
	Twist rate: 1min/cycle	
	Twist angle: $\pm 90^\circ$	
	No. of cycle: 10	
Compound Flow IEC 60794-1-E14	Sample length: 30 cm	No compound flow
	Temp: $70^\circ\text{C} \pm 2^\circ\text{C}$	
	Time: 24 hours	