



ADSS-09G652XXX-SJ80-IN, Optical Fiber Cable with FRP central strength member for Outdoor Application - 06 - 144 Fiber		
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
	1500nm	< 0.23 dB/Km
Point discontinuity	≤ 0.05 dB	
Diameter of modal field	Nominal range: 9.2 μm Tolerance: ± 0.4 μm	
Cladding diameter (nominal)	125 μm ± 0.7 μm	
Primary coating diameter	245 ± 10 μm	
PMD coefficient (Polarization Mode Dispersion)	Máximum: 0.20 ps/√ km	

TECHNICAL PROPERTIES		
External covering material	HDPE	
Outer jacket color	Black	
Jacket protection	UV resistant	
Interna cable structure - Loose tube	ADSS-09G652006-SJ80-IN	(1 buffer with 6 threads)
	ADSS-09G652012-SJ80-IN	(1 buffer with 12 threads)
	ADSS-09G652024-SJ80-IN	(2 buffer with 12 threads)
	ADSS-09G652048-SJ80-IN	(4 buffer with 12 threads)
	ADSS-09G652096-SJ80-IN	(8 buffer with 12 threads)
	ADSS-09G652144-SJ80-IN	(12 buffer with 12 threads)
Central member structure	fiberglass-reinforced plastic (FRP).	



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Self-Supporting Span 80m, PE Single Sheath, Optical Cable

Loose tube - Outer diameter (mm)	Loose tube - Diameter	
	ADSS-09G652006-SJ80-IN	1.9 ± 0.1 mm
	ADSS-09G652012-SJ80-IN	1.9 ± 0.1 mm
	ADSS-09G652024-SJ80-IN	1.9 ± 0.1 mm
	ADSS-09G652048-SJ80-IN	2.0 ± 0.12 mm
	ADSS-09G652096-SJ80-IN	2.0 ± 0.12 mm
	ADSS-09G652144-SJ80-IN	2.0 ± 0.12 mm
Central member structure (mm)	Glass Fiber Reinforced Plastic rod (GFRP)	
	ADSS-09G652006-SJ80-IN	2 ± 0.10 mm
	ADSS-09G652012-SJ80-IN	2 ± 0.10 mm
	ADSS-09G652024-SJ80-IN	2 ± 0.10 mm
	ADSS-09G652048-SJ80-IN	2 ± 0.10 mm
	ADSS-09G652096-SJ80-IN	2.3 ± 0.15 mm
	ADSS-09G652144-SJ80-IN	3.0 ± 0.20 mm
Configuration of the internal cable structure	SZ Braided, Thermoplastic Cylinders	
Tube filling compound	Water Blocking & Moisture Proof Thyrotrophic gel	
Filler	PP Diameter same as tube	
Water blocking tape	0.28mm thickness	
Binder	2 wires Polyester Yarns Cable core binding	
RipCORDS	2 wires	
Dielectric Strength Members	Aramid Yarns	
Bending radius IEC 60794-1-E11	ADSS-09G652006-SJ80-IN	196 mm
	ADSS-09G652012-SJ80-IN	196 mm
	ADSS-09G652024-SJ80-IN	196 mm
	ADSS-09G652048-SJ80-IN	196 mm
	ADSS-09G652096-SJ80-IN	228 mm
	ADSS-09G652144-SJ80-IN	280 mm
	Outer Sheath	Thickness (mm)
Crush Resistance IEC 60794-1-E3	Short term	2000 N (100 X 100 mm) for 60 sec
	Long term	2000 N (100 X 100 mm) for 60 sec

Cable Fitting | Optic Cables | Optic Tools | Fiber Patch Panel | Fiber Protection | Fiber Cassette | Fiber Connectivity | Fiber Box



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Cable Diameter (mm)cable OD)	ADSS-09G652006-SJ80-IN	9.8 ± 0.5 mm
	ADSS-09G652012-SJ80-IN	9.8 ± 0.5 mm
	ADSS-09G652024-SJ80-IN	9.8 ± 0.5 mm
	ADSS-09G652048-SJ80-IN	9.8 ± 0.5 mm
	ADSS-09G652096-SJ80-IN	11.4 ± 0.6 mm
	ADSS-09G652144-SJ80-IN	14 ± 0.7 mm
Drum length x Km	2Km/4 Km ± 5%	
Cable weight cable weight (kg / km)	6F-12F	68 kg/km
	24F	69 kg/km
	48F	70 kg/km
	96F	97 kg/km
	144F	148 kg/km
Torsion Resistance IEC 60794-1-E7	10 Cycle (± 180°) with 100N weight, L= 1Mtr	
Kink Resistance (mm) [IEC 60794-1-2-E10]	ADSS-09G652006-SJ80-IN	98mm
	ADSS-09G652012-SJ80-IN	98mm
	ADSS-09G652024-SJ80-IN	98mm
	ADSS-09G652048-SJ80-IN	98mm
	ADSS-09G652096-SJ80-IN	114mm
	ADSS-09G652144-SJ80-IN	140mm
Temperature range (IEC 60794-1-F1)	Operation	-40° to +70°C
	Installed	-10° to +60°C
	Storage and Shipping	-40° to +70°C
Cable SPAN	80 Mt. SPAN	
Cable breaking strength(RTS)	ADSS-09G652006-SJ80-IN	3300N
	ADSS-09G652012-SJ80-IN	3300N
	ADSS-09G652024-SJ80-IN	3300N
	ADSS-09G652048-SJ80-IN	3300N
	ADSS-09G652096-SJ80-IN	4900N
	ADSS-09G652144-SJ80-IN	6500N
Impact strength IEC 60794-1-2-E4	5 Nm	
Working Tension (MAT)	ADSS-09G652006-SJ80-IN	2100N
	ADSS-09G652012-SJ80-IN	2100N
	ADSS-09G652024-SJ80-IN	2100N
	ADSS-09G652048-SJ80-IN	2100N
	ADSS-09G652096-SJ80-IN	3500N
	ADSS-09G652144-SJ80-IN	4500N
Water Penetration IEC 60794-1-2-F5	1 Mtr Water Head, 3 Meter Cable Sample, 24 Hours	
Colour of tubes - Standard Tia 598D	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose (Pink), Aqua	



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IDENTIFICATION FIBER & BUFFER TUBES

Color Fiber											
1	2	3	4	5	6	7	8	9	10	11	12

Buffer Tube Color											
1	2	3	4	5	6	7	8	9	10	11	12

Cable Fitting
Optic Cables
Optic Tools
Fiber Patch Panel
Fiber Protection
Fiber Cassette
Fiber Connectivity
Fiber Box