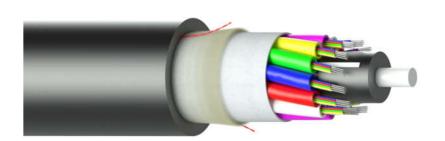


ADSS 144/M12 G.652D SJ HDPE 2.7kN D14





*indicative purpose drawings

APPLICATION & STANDARDS

- ~ Designed for outdoor aerial installation on poles. It can also be used in ducts where there is no need of rodent protection;
- ~ IEC 60794-4-20 Aerial optical cables along electrical power lines Family specification for ADSS (all dielectric self-supported) optical cables:
- ~ EN 60794-1 Optical fibre cables. Generic specification. Basic optical cable test procedures;
- \sim ITU-T G.652 Characteristics of a single-mode optical fibre and cable;

CONSTRUCTION

- ~ Central FRP rod, PE coated;
- ~ **PBT loose tubes** containing fibers, filled with a suitable water tightness compound;
- ~ Water swellable yarns;
- ~ Water blocking tape;
- ~ **Aramid yarns** as peripheral strength member;
- ~ Ripcords;
- ~ Outer Jacket (Black PE, UV resistant);

Stranding: Loose tubes SZ stranded around central strength member;

GENERAL DESCRIPTION

All Dielectric Self-Supporting Fiber Optic Cables are designed for aerial installation. It does not need support or messenger wire for installation which makes it a cost-effective and simple way of setting up fiber optic networks.

The aramid yarns helps the cable to have good tensile performance and temperature performance under extreme weathers.

This cable contains fibers made of high pure silica and germanium doped silica.

The above design is only a sample of the options available. Contact our sales team for other specifications. Our policy of continuous improvement may result in a change of specifications without notice.

CONSTRUCTION & MAIN FEATURES

CHARACTERISTIC	SPECIFIED VALUE					
G.652D - OPTICAL FIBER PERFORMANCE						
Attenuation Coefficient:						
at 1310 nm Max :	≤ 0.36 dB/km					
at 1550 nm Max :	≤ 0.23 dB/km					
Chromatic Dispersion:						
between 1285 - 1330 nm:	≤ 3.5 ps/nm·km					
at 1550nm	≤ 18 ps/nm·km					
Chromatic dispersion coefficient	λomin:1300 nm λoMax:1324 nm					
Point Discontinuity:	≤ 0.1 dB					
at 1310&1550 nm	2 0.1 0.5					
Polarization Mode Dispersion (PMD	≤ 0.2 ps/√km					
Individual)	≤ 0.08 ps / √km.					
Polarization Mode Dispersion (Link Design) Cable Cut off Wavelength (λcc)	≤ 1260 nm					
Mode Field Diameter :	≤ 1200 IIIII					
at 1310 nm	9.2 ±0.4 μm					
at 1550 nm	10.4±0.5 μm					
Cladding Diameter	125 ±1.0 μm					
Cladding Non-Circularity	≤0.7%					
Core / Cladding Concentricity error	≤ 0.5 μm					
Coating Diameter	250 ± 7μm					
FIBER OPTIC CABLE PARAMETERS						
Core Type	G.652D					
Fiber Count	144					
Tube Count	12					
Filler Count	0					
Cable Diameter	14.0 ± 0.5 mm					
Cable Weight	150 ± 15 kg/km					
Max. Installation Tensile Strength (IEC-60794-1-21-E1)	4000 N, 10min., fibre strain ≤ 0.33%					
Max. Operation Tensile Strength (IEC-60794-						
1-21-E1)	2700 N, no fibre strain					
Crush (IEC-60794-1-21-E3)	2000 N/10cm					
Water Penetration (IEC-60794-1-22-F5)	1 m water head, 3 m sample, 24 hours					
Minimum Bending Radius	20 x D					
Temperature (Installation)	-10°C ÷ +50 °C					
Temperature (Operation)	-40°C ÷ +70 °C					
Temperature (Storage)	-20°C ÷ +70 °C					
· · · · · · · · · · · · · · · · · · ·	Wooden drum with protection					

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CHARACTERISTIC	SPECIFIED VALUE						
Delivery Lengths	To be confirmed, ± 5% tolerance						
	<pre><optivine> + <adss 144="" g.652d="" m12="" pre="" sj<=""></adss></optivine></pre>						
Marking	HDPE 2.7kN D14>+ <manufacturing date=""> +</manufacturing>						
	<length marking=""></length>						

Fiber&Tube Color Identification*												
No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Yellow	Blue	Orange	Brown	White	Violet	Pink	Aqua	Grey	Black

^{*} Fibers from 13 to 24 will be marked with one black ring at every 50mm. Fibers from 25 to 36 will be marked with two black rings at every 50mm.