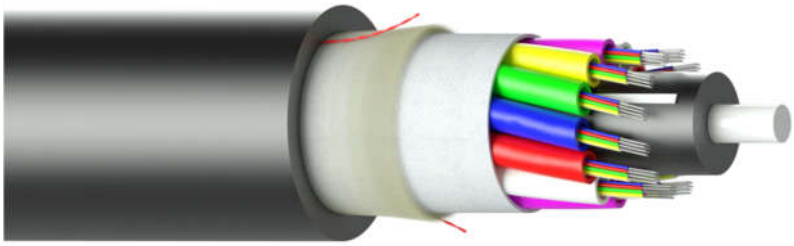
ADSS 288/M24 G.652D SJ HDPE 2.7kN D16



*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;
~ 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 yarn**;
~ **Water blocking tape**;
~ **Aramid yarns** as peripheral strength member;
~ **Ripcords**;
~ **Outer Jacket** (Black HDPE, 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.

CONSTRUCTION & MAIN FEATURES

CHARACTERISTIC	SPECIFIED VALUE
G.652D - OPTICAL FIBER PERFORMANCE	
Attenuation Coefficient: at 1310 nm Max : at 1550 nm Max :	 ≤ 0.36 dB/km ≤ 0.23 dB/km
Chromatic Dispersion: between 1285 - 1330 nm: at 1550nm	 ≤ 3.5 ps/nm·km ≤ 18 ps/nm·km
Chromatic dispersion coefficient	λomin:1300 nm λoMax:1324 nm
Point Discontinuity: at 1310&1550 nm	≤ 0.1 dB
Polarization Mode Dispersion (PMD Individual) Polarization Mode Dispersion (Link Design)	≤ 0.2 ps/√km ≤ 0.08 ps / √km.
Cable Cut off Wavelength (λcc)	≤ 1260 nm
Mode Field Diameter : at 1310 nm at 1550 nm	 9.2 ±0.4 µm 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	288
Tube Count	12
Filler Count	0
Cable Diameter	16.0 ± 1.0 mm
Cable Weight	190 ± 20 kg/km
Max. Installation Tensile Strength (IEC-60794-1-21-E1)	5000 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
Packing	Wooden drum with protection

CHARACTERISTIC	SPECIFIED VALUE
Delivery Lengths	To be confirmed, ± 5% tolerance
Marking	<OPTIVINE> + <ADSS 288/M24 G.652D SJ HDPE 2.7kN D16>+ <manufacturing date> + <length marking>

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

Fiber Color Identification*												
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	Red	Green	Yellow	Blue	Orange	Brown	White	Violet	Pink	Aqua	Grey	Natural

* Fibers from 13 to 24 will be marked with one black ring at every 50mm.