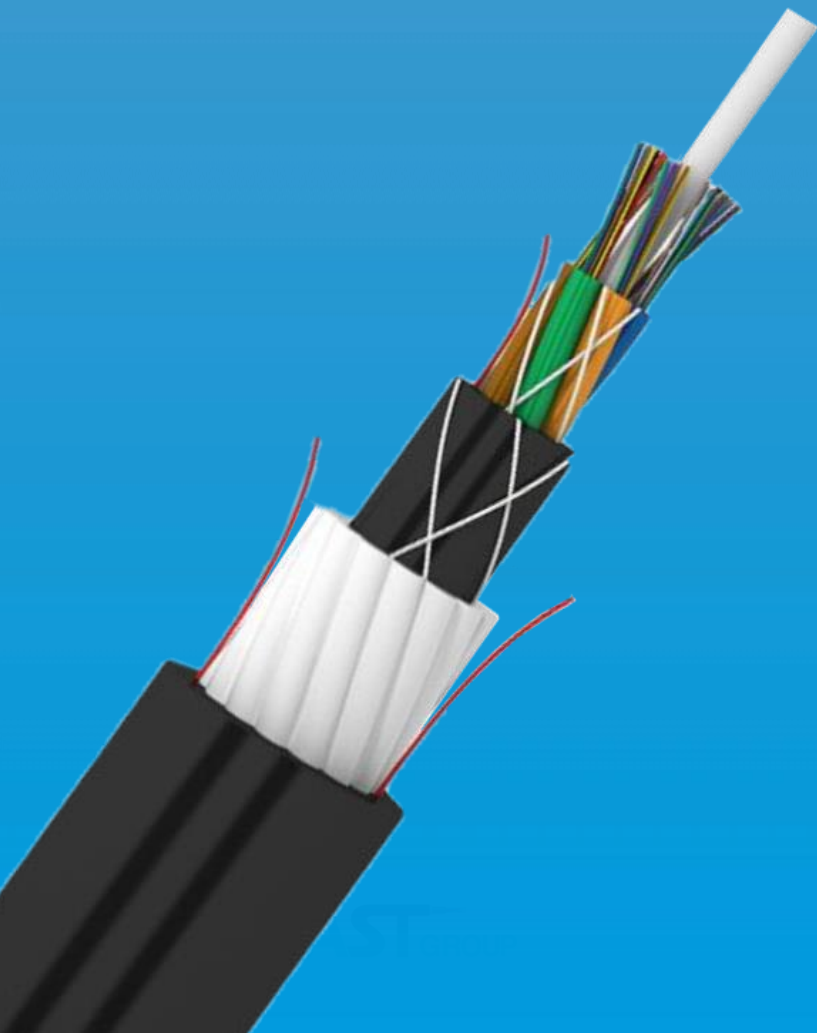


ADSS DIALECTRIC ARMOR

COMCAST GROUP



Overview

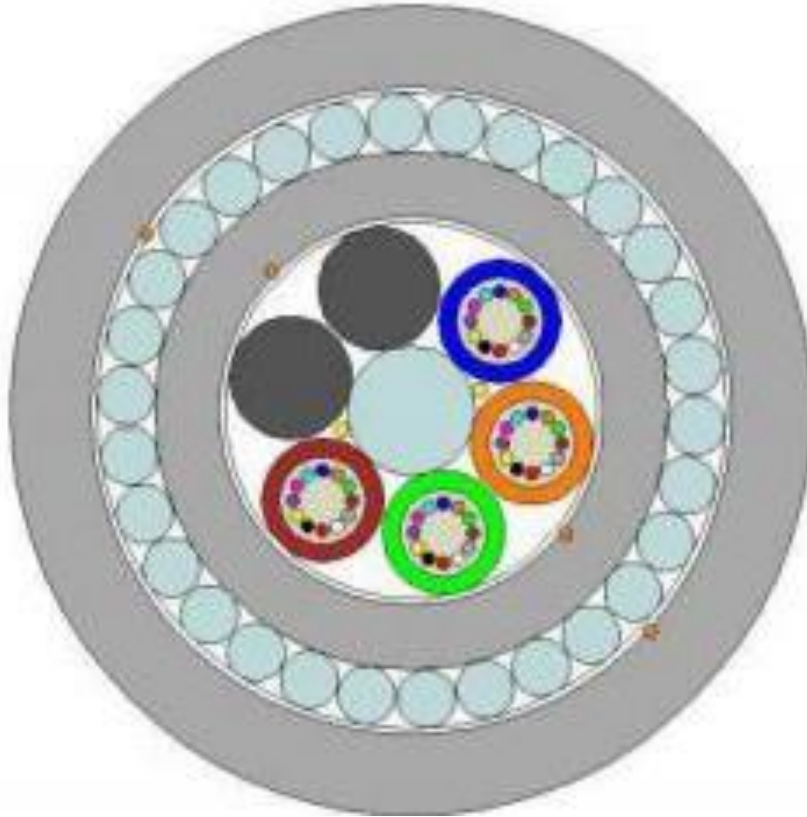
The ADSS (All Dielectric Self Supported totally dielectric and self-supporting) fiber optic cable is designed for aerial installations between poles.

It also has an Anti-rodent to protect it from rodents, which makes it the perfect cable for installations on towers.

Features

- Anti-rodent additive in the outer jacket for first-line protection
- Designed for use in Aerial Applications of 138kv or less where damage from squirrels/rodent is apparent
- Superior protection from mechanical damage-FRP roods provide strength and second-line protection
- Completely protected from water ingress
- Maximum rated design tension up to 4496 lb.

Draw



Technical Specification

Cable Structure	
Type of fiber	G.652D
Cable structure	1+6
No. of fiber	48
Loose casing diameter	2.2 mm
No. of fiber per tube	12
Central strength member	FRP
Outer diameter of reinforcement	2.5 mm
Thickness of inner protection	0.8 mm
Peripheral reinforcement	1.6 mm * 18
Thickness of external protection	1.6 mm
Cable diameter	15.1 ±0.2mm
Cable sectional area	179 mm ²
Cable weight	180 kg/km ±5%
Span length	200M
Temperature & Bending	
Minimum static bending radius	234 mm
Minimum dynamic bending radius	385 mm
Installing temperature	—15°C~+60°C
Operating temperature	—30°C~+70°C

G.652D fiber characteristics

Optics specifications		
Attenuation	@ 1310nm	$\leq 0.35\text{dB/km}$
	@ 1383nm(after hydrogen aging)	$\leq 0.35\text{dB/km}$
	@ 1550nm	$\leq 0.22\text{dB/km}$
Dispersion	@ 1285nm~1340nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@ 1550nm	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$
	@ 1625nm	$\leq 22\text{ps}/(\text{nm}\cdot\text{km})$
Zero-Dispersion wavelength		1300nm~1324nm
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$
Mode field diameter (MFD) at 1310nm		$9.2\pm 0.6\mu\text{m}$
Mode field diameter (MFD) at 1550nm		$10.5\pm 1.0\mu\text{m}$
PMD	Max. for fiber on the reel	$0.20\text{ps}/\text{km}^{1/2}$
Cable cutoff wavelength $\lambda_{cc}(\text{nm})$		$\leq 1260\text{nm}$
Back scatter characteristics (at 1310nm&1550nm)		
Point discontinuity		$\leq 0.05\text{dB}$
Attenuation uniformity		$\leq 0.05\text{dB/km}$
Attenuation coefficient difference for bi-directional measurement		$\leq 0.05\text{dB/km}$
Geometrical characteristics		
Cladding diameter		$125\pm 1.0\mu\text{m}$
Cladding non-circularity		$\leq 1\%$
Core/cladding concentricity error		$\leq 0.6\mu\text{m}$
Fiber diameter with coating (uncolored)		$245\pm 10\mu\text{m}$
Cladding/coating concentricity error		$\leq 12.0\mu\text{m}$
Mechanical characteristics		
Proof stress		$\geq 0.69\text{GPa}(100\text{kpsi})$
Macrobend loss at 1550nm	$\Phi 60\text{mm}, 100\text{ turns}$	$\leq 0.05\text{dB}$
	$\Phi 32\text{mm}, 1\text{ turn}$	$\leq 0.05\text{dB}$

The Mechanical and Environmental Performance of the Cable

Item	Test Method	Test Conditions	Acceptance Criteria
Tensile Strength	IEC60794-1-2-E1	L \square 50 m Load:7000N Time: 1 min	Additional attenuation \leq 0.05 dB No visible damage to the surface of out sheath
Crush Resistance	IEC60794-1-2-E3	Load: 1000N Time: 1 minute -Length: 100 mm	Additional attenuation \leq 0.05dB No visible damage to the surface of out sheath
Impact Resistance	IEC60794-1-2-E4	The impact of weight: \geq 450g Weight high: 1m 3 point , 5 times per point	Additional attenuation \leq 0.05dB No visible damage to the surface of out sheath
Repeated bending	IEC60794-1-2-E6	Load: 150 N Tests = 30 cycles Each cycle \square 2 sec. L =1.0 m	Additional attenuation \leq 0.05dB No visible damage to the surface of out sheath
Torsion	IEC60794-1-2-E7	The test length =1m, \pm 180 degree, 10 cycles, Test weight 150N	Additional attenuation \leq 0.05dB No visible damage to the surface of out sheath

Please visit our website www.comcast-sa.com or contact your local sales representative.

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