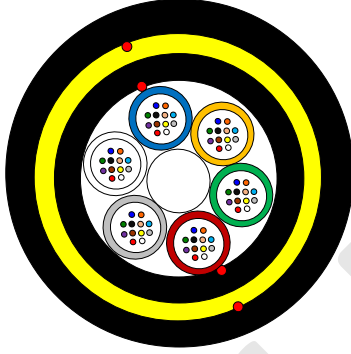


1. Application / Construction

Identification	ADSS-PE-72 B1.3		
Application	ADSS Cable for aerial installation		
Cross Section (not to scale)	<p style="text-align: center;">72 fibers (G.652D)</p> 		
Configuration	<ul style="list-style-type: none"> - Loose tubes with 12 optical fibers, filled with thixotropic compound - Stranded loose tubes - Central strength member made of FRP - Cable jelly - Aramid yarns strength member - Inner sheath: PE, Black, two ripcords under inner sheath - Outer sheath: PE, Anti-UV, Black, two ripcords under outer sheath 		
Temperature Range	Storage and transport -50 to +70°C	Installation -30 to +70°C	Operation -40 to +85°C
Standards	IEC 60793-1, IEC 60793-2, IEC 60794-4-20, IEEE 1222 ITU-T G.650, ITU-T G.652		
ZTT Specification	20-108103-2-A		

2. Dimensions

Number of fibers			72(G.652D)
Loose tubes x fibers			6x12
Number of natural fillers			2
Strength member			Aramid yarns
Outer diameter (± 5%)	mm		13.0
Weight (± 15%)	Kg/km		140

3. Mechanical Properties

MAT		17.7KN
Crush resistance / 100mm		2000N
Min. Bending radius (installation)		20x cable-Ø
Min. Bending radius (operation)		10x cable-Ø

4. Marking

Fiber color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
Tube color	blue	orange	green	brown	grey	white	/	/	/	/	/	/

5. Optical Fiber (G.652D)

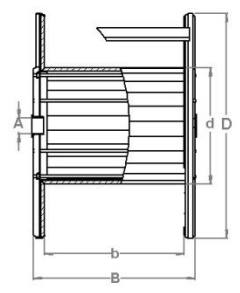
Category (G.652D)	Description	Specifications
		After cabling
Optical Specifications	Attenuation @1310 nm	≤0.36 dB/km
	Attenuation @1550 nm	≤0.22 dB/km
	Zero Dispersion Wavelength	1300~1324 nm
	Zero Dispersion Slope	≤0.092 ps/nm ² ·km
	Chromatic dispersion @1310 nm @1550 nm	≤3.5ps/(nm·km) ≤18 ps/(nm·km)
	Cable Cutoff Wavelength (λ _{cc})	≤1260 nm
	Macro Bending Loss (100 turns; Φ50 mm) @1550 nm (100 turns; Φ50 mm) @1625 nm	≤ 0.05 dB ≤ 0.10 dB
	Mode Field Diameter @1310 nm	9.2±0.5μm
	Cladding Diameter	125 ±0.7μm
	Core/Clad Concentricity Error	≤0.6μm
	Cladding Non-Circularity	≤1.0%
Mechanical Specifications	Proof Stress	≥0.69Gpa

6. Test Methods

Test	Conditions	Acceptance criteria
Tensile strength IEC 60794-1-2 E1	Tensile strength: see Point 3 Sample length: ≥ 25 m Test duration: 1 minute	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Crush resistance IEC 60794-1-2 E3	Crush: see Point 3 Test duration: 1 min, number of tests: 3	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Impact IEC 60794-1-2 E4	Impact energy: 3 J Radius: 10mm number of places/tests: 3 Impact number: 1	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Repeated Bending	Bending radius: 20 X diameter of cable 25 cycles	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Torsion IEC 60794-1-2 E7	Sample length: 2 m ± 180°, 10 cycles	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Bend IEC 60794-1-2 E11A	Bending radius: 20x cable Ø 4 turns, 3 cycles	Additional attenuation: ≤0.1 dB after test No damage to outer jacket and inner elements
Temperature cycling IEC 60794-1-2 F1	+20°C→-40°C →+85°C →+20°C 12 hours at each temperature step 2 cycles	Attenuation variation for reference value (the attenuation to be measured before test at +20±3°C) ≤ 0.10 dB/km
Water penetration IEC 60794-1-2 F5	Sample length: 3 m, water column height: 1 m Test duration: 24 h	No water leakage from the opposite of the sample
Drip test IEC 60794-1-2 E14	Sample length: 30cm Temperature: 70°C Keep time: 24 hours	No filling compound shall drip from tubes

All optical measurements at 1550 nm

7. Logistics

Cable type	Length	350m/reel	 <p>D*d*B in cm</p>
ADSS-PE-72 B1.3	Drum type Dimensions(mm) Weight(kg)	Wooden 95*70*75 (110)	

Dimensions including protection. Indicative values, actually delivered drum sizes and weights may deviate. Cable ends sealed with caps

A	March 31, 2020	Ellison	Erica	Felix	/
Version	Date	Prepared	Reviewed	Approved	Remark

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