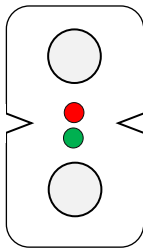


## 1 Application / Construction

Identification	GJXFH-2G.657A1		
Application	Indoor distribution installation		
Cross section	<div style="text-align: center;"> <p>2 fiber</p>  <p>..not to scale..</p> </div>		
Configuration	<ul style="list-style-type: none"> <li>- Colored fibers (red, green)</li> <li>- FRP*2</li> <li>- Outer sheath LSZH , White (or other colors as required)</li> <li>- Euroclass CPR: Eca</li> </ul>		
Temperature range	Storage and transport -20 to +70°C	Installation -5 to +40°C	Operation -5 to +50°C
Standards	IEC 60793-1, IEC 60793-2, IEC 60794-2, IEC 60332-1-2		
ZTT Specification	XM2411130030-1-E (Ref 19-106014-1-A)		
Customer Reference	Common standard		

## 2 Dimensions

Outer diameter	mm	$(2.0 \pm 0.1) * (3.1 \pm 0.1)$
Weight/km (Nominal)	Kg	9

Sizes and values without tolerances are reference values

## 3 Mechanical Properties

Tensile load	80N
Crush resistance	1000N/10cm
Min. bending radius	(In flat direction) Installation: 30mm, Operation: 15mm

See Point 6: Test Methods

## 4 Marking

Fiber color: red and green

Outer Sheath: White, Ink jet print, marking in 1 meter intervals as follows (for example) :

<b>ZTT</b>	<b>INDOOR CABLE</b>	<b>Cable Type</b>	<b>Batch No.</b>	<b>&lt;meter marking &gt;</b>
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## 5 Optical Fiber

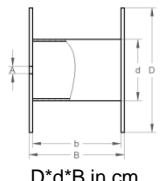
Standard	ITU-T G.657A1		
Optical	Fibre attenuation .. cabled	@ 1310 nm ≤0.40 dB/km	@ 1550 nm ≤0.30 dB/km
	Zero Dispersion Wavelength	1300~1324 nm	
	Zero Dispersion Slope	≤0.092 ps/nm <sup>2</sup> ·km	
	Macro bending Loss (10 turns; Φ30 mm) @ 1550 nm (10 turns; Φ30 mm) @ 1625 nm (1 turns; Φ20 mm) @ 1550 nm (1 turns; Φ20 mm) @ 1625 nm	≤0.25 dB ≤1.00 dB ≤0.75 dB ≤1.50 dB	
	Mode Field Diameter @ 1310 nm	8.8±0.4 μm	
Geometric	Cladding Diameter	125±0.7 μm	
	Cladding non circularity	≤ 1.0%	
	Core/clad concentricity error	≤ 0.5μm	
Mechanical	Proof stress	≥ 0.69 GPa	

## 6 Test Methods

Test	Conditions	Acceptance criteria
Tension Loading IEC 60794-1-2 E1	Tensile strength: see Point 3 Sample length: ≥ 50 m, Test duration: 10 min	- Δα reversible - No damage
Crush/Compression IEC 60794-1-2 E3	Crush: see Point 3 Test duration: 1 min, number of tests: 3	- Δα ≤ 0.4 dB - No damage
Impact Resistance IEC 60794-1-2 E4	Impact energy: 1 J R = 300 mm, number of places/tests: 3	- Δα ≤ 0.4 dB after test - No damage
Torsion/Twist IEC 60794-1-2 E7	Sample length: 1 m ± 180°, 20N, 20 cycles	- Δα ≤ 0.4 dB after test - No damage
Temperature cycling IEC 60794-1-2 F1	-5°C .. +50°C 8h at each temperature step 2 cycles	- Change of attenuation ≤ 0.2 dB/km - No damage

All optical measurements at 1550 nm

## 7 Logistics

Cable type	Standard length 1000m		
GJXFH-2G.657A1	Drum type Dimensions Weight	Plastic 30*15*22 10	

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

E	Feb 12, 2025	Wright	Tim	Erica	Drum length
C	Jan 27, 2025	Wright	Tim	Erica	Eca
B	Nov 25, 2024	Wright	Tim	Erica	IEC 60332-1-2
A	Nov 14, 2024	Wright	Tim	Erica	/
106014-1-A	Dec 17, 2019	Yury	Erica	Felix	/
Version	Date	Prepared	Reviewed	Approved	Remark