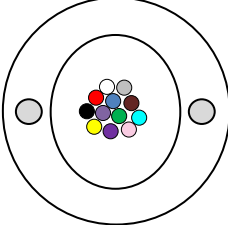


1. Application / Construction

Identification	GJPFJH-12/24G.657A1		
Application	Indoor installation		
Cross Section (not to scale)	<p style="text-align: center;">12/24 fibers</p> 		
Configuration	<ul style="list-style-type: none"> - Bare fiber - Semi-tight buffer (LSZH), strip at least 50cm at 1 time - Talc powder if needed - Outer sheath: LSZH, White, with 2 FRP embedded in the sheath symmetrically 		
Temperature Range	Storage and transport -20 to +60°C	Installation -10 to +50°C	Operation -20 to +60°C
Standards	IEC 60793-1, IEC 60793-2, IEC 60794-2		
ZTT Specification	21-118269-7-A		
Customer Reference	Common standard		

2. Dimensions

Number of fibers		12	24
Outer diameter (±0.5)	mm	9.0	11.0
Weight/km	kg	63	84

Note: sizes and values without tolerances are nominal values

3. Mechanical Properties

Max. tensile load	400 N	600 N
Crush resistance / 10 cm	500 N	
Bending radius	Without Tension 10D	

See Point 6: Test Methods

4. Marking

Buffer Colors	1	2	3	4	5	6	7	8	9	10	11	12
	blue	orange	green	brown	slate	white	red	black	yellow	violet	rose	aqua

Note: 13~24 buffer colors same as 1~12 buffer with black tracer, except 20th buffer with white tracer.

Outer Sheath: white, ink jet, marking in 1 meter intervals as follows (for example):

ZTT OPTICAL CABLE GJPFJH-12 G.657A1 <batch ID> <meter marking >

5. Optical Fiber

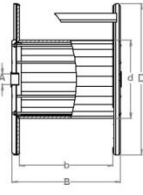
Standard	ITU-T G.657A1 UBIF [®] R10		
Optical	Fiber attenuation .. cabled	@ 1310 nm ≤0.36 dB/km	@ 1550 nm ≤0.22 dB/km
	Mode field diameter (MFD)	(8.6~9.2) ± 0.4 μm @1310nm	
	Zero dispersion wavelength	1300~1324 nm	
	Zero dispersion slope	≤0.092 ps/nm ² ·km	
	Cable cut-off wavelength	≤1260 nm	
	Macro bending loss .. 10 turns Ø30 mm .. 1 turn Ø20 mm	@1550 nm ≤0.25 dB ≤0.75 dB	@1625 nm ≤1.0 dB ≤1.5 dB
Geometric	Coating diameter (Colored)	250 ± 15μm	
	Cladding diameter	125 ± 0.7μm	
	Core/clad concentricity error	≤0.5μm	
	Cladding non-circularity	≤ 1.0%	
Mechanical	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: ≥ 50 m, Duration: 1 min	- Δα reversible - No damage
Crush resistance IEC 60794-1-2 E3	Crush: see Point 3 Test duration: 1 min, number of test: 3	- Δα reversible - No damage
Impact IEC 60794-1-2 E4	Impact energy: 1 J R = 300 mm, number of places/tests: 3	- Δα reversible - No damage
Repeated bending IEC 60794-1-2 E6	Bending radius: 20x cable Ø 25 cycles, 100N load	- Δα reversible - No damage
Torsion IEC 60794-1-2 E7	Sample length: 2 m ± 180°, 10 cycles, 100N	- Δα reversible - No damage
Bend IEC 60794-1-2 E11A	Bending radius: 10x cable Ø 4 bends, 3 cycles	- Δα reversible - No damage
Temperature cycling IEC 60794-1-2 F1	-20°C → +60°C 8 hours at each step, 2 cycles	- Δα ≤ 0.15dB/km and reversible - No damage

All optical measurements at 1550 nm

7. Logistics

Cable type	Length Tolerance	2km -1% / +3%	
GJPFJH-12 G.657A1	Drum Type Dimensions (tolerance: ±5cm) Weight (kg)	Wood 100*60*75 185	
GJPFJH-24 G.657A1		Wood 105*60*75 227	

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

A	Mar.23, 2021	Samson	Erica	Xue Zhaojian	/
Version	Date	Prepared	Reviewed	Approved	Remark

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