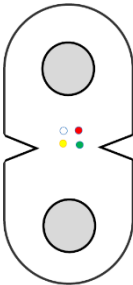
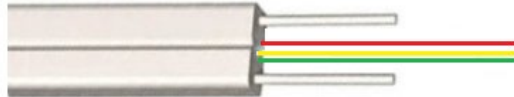


GJXFG/GJXFH - FTTH DROP CABLE

1000 mtr. Reel-in-a-box



1. Application / Construction

Identification	GJXFG/GJXFH - 2/4 G.657A2		
Application	FTTH Drop Cable 1,6 x 2,0mm / 2,0 x 3,0 mm		
Cross Section (not to scale)	 		
Configuration	- 2 or 4 250µm fibers - 2 strength members made of fibre reinforced plastic (FRP) - Outer sheath: LSZH low fiction, white, unmarked - CPR: Eca		
Temperature Range	Storage and transport -40 to +70°C	Installation -20 to +50°C	Operation -30 to +70°C
Standards	IEC 60793-1, IEC 60793-2, IEC 60794-2		

2. Dimensions

Number of fibers	/	2/4	2/4
Outer diameter (WxH)	mm	1,6 x 2,0 mm	2,0 x 3,0 mm
Weight/km	kg	15	13

Sizes and values without tolerances are nominal values

3. Mechanical properties

Max tensile load	200N short term / 100N long term
Crush resistance / 10 cm	1000N short term / 300N long term
Bending radius (load)	20 x cable OD
Bending radius (unload)	10 x cable OD

See point 6: Test Methods

4. Marking

	1	2	3	4
Fiber colors	White	Red	Yellow	Green

NOTE! Cable is supplied as standard with unmarked cable jacket, but cable marking is available on special request

5. Optical Fiber

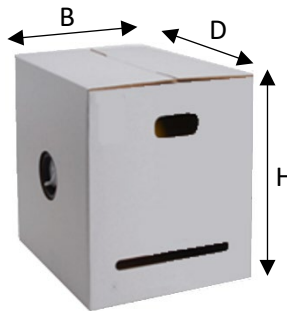
Standard	ITU-T G.657A2		
Optical	Fiber attenuation, cabled	@ 1310 nm $\leq 0.36 \text{ dB/km}$	@ 1550 nm $\leq 0.22 \text{ dB/km}$
	Mode Field Diameter (MFD)	$(8.6 \sim 9.2) \pm 0.4 \mu\text{m}$ @ 1310 nm	
	Zero dispersion wavelength	1300~1324 nm	
	Zero dispersion slope	$\leq 0.092 \text{ ps/nm}^2 \cdot \text{km}$	
	Cut-off wavelength	$\leq 1260 \text{ nm}$	
	Macro bending loss 10 turns $\varnothing 30 \text{ mm}$ 1 turn $\varnothing 20 \text{ mm}$ 1 turn $\varnothing 15 \text{ mm}$	@1550 nm $\leq 0.03 \text{ dB}$ $\leq 0.10 \text{ dB}$ $\leq 0.50 \text{ dB}$	@1625 nm $\leq 0.10 \text{ dB}$ $\leq 0.20 \text{ dB}$ $\leq 1.00 \text{ dB}$
Geometric	Outer diameter (uncolored) 250 μm	$250 \pm 15 \mu\text{m}$	
	Cladding diameter	$125 \pm 0.7 \mu\text{m}$	
	Core/clad concentricity error	$\leq 0.5 \mu\text{m}$	
	Cladding non-circularity	$\leq 1.0 \%$	
Mechanical	Proof stress	$\geq 0.69 \text{ Gpa}$	

6. Test Methods

Test	Conditions	Acceptance criteria
Tensile strength IEC 60794-1-2 E1	Tensile load: see Point 3 Sample length: $\geq 50 \text{ m}$ Test duration: 10 min	- $\Delta\alpha \leq 0.4 \text{ dB}$ after test - No damage
Crush resistance IEC 60794-1-2 E3	Crush: see Point 3 Test duration: 1 min, number of tests: 3	- $\Delta\alpha$ reversible - No damage
Impact IEC 60794-1-2 E4	Impact Energy: 1J, R=300 mm Impact points: 3, Impact number: 3	- $\Delta\alpha$ reversible - No damage
Repeated bending IEC 60794-1-2-E6	Bending radius: 20x cable diameter Cycles: 25	- $\Delta\alpha$ reversible - No damage
Temperature cycling IEC 60794-1-2 F1	Steps: $-30^\circ\text{C} \sim +70^\circ\text{C}$ 4 hours at each temperature step. Cycles: 2	- $\Delta\alpha$ reversible - No damage

All optical measurement at 1550nm

7. Logistics

Cable type	/	1000 mtr. Reel-in-a-box	
2F/4F	Dimension Weight	D31*B27*H31,5cm 1,6x2mm cable: 15kg 2x3mm cable: 17 kg	

8. Ordering information

Elnr.	Product code	Product	Fiber qty	Fiber type	Category (fiber)
1001250	G2-9/125-GJXFH-7A2	GXJFH Drop Cable 2x3mm, 2xG.657A2 1000 mtr. Reel-in-a-box	2	SM 9/125	OS2
1001251	G4-9/125-GJXFH-7A2	GXJFH Drop Cable, 2x3mm, 4xG.657A2 1000 mtr. Reel-in-a-box	4	SM 9/125	OS2
1001252	G2-9/125-GJXFG-7A2	GXJFH Drop Cable 1,6x2mm 2xG.657A2 1000 mtr. Reel-in-a-box	2	SM 9/125	OS2
1001253	G4-9/125-GJXFG-7A2	GXJFH Drop Cable1,6x2mm, 4xG.657A2 1000 mtr. Reel-in-a-box	4	SM 9/125	OS2

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