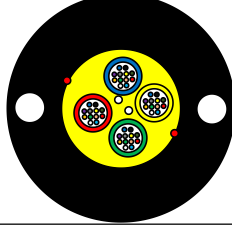


1. Application / Construction

Identification	OFC-8/12/24/36/48 G.652D-FASA(W)-T-S1		
Application	Aerial installation, max span 55m (wind 96km/h, -5°C. Or 10mm ice, -5°C)		
Cross Section (not to scale)	8-48 fibers 		
Configuration	- Micro module with up to 12 optical fibers and jelly inside - Easy to strip the micro module - Aramid yarns - Water-blocking yarns - Outer sheath: HDPE, with 2 FRP embedded in the sheath symmetrically - Ripcord*2 (red)		
Temperature Range	Storage and transport -20 to +60°C	Installation -10 to +50°C	Operation -30 to +60°C
Standards	IEC 60793-1, IEC 60793-2, IEC 60794-4-20, EN 50290-2-24		
ZTT Specification	22-XJ17196-4-B (Ref14307-1-A)		
Customer Reference	Attachment 1 Optical cables Tech Specs		

2. Dimensions

Fiber counts		8	12	24	36	48
Fibers/Module		8	12	12	12	12
Outer sheath thickness		≥1.4mm				
Outer diameter (± 0.5)	mm	7.1	7.3	8.6	8.6	8.9
Weight	kg	35	37	50	51	56

Sizes and values without tolerances are nominal values

3. Mechanical Properties

Fiber counts		8	12	24	36	48
Max tension		1100N	1200N	1365N	1370N	1420N
		≥2.5 daN x W (W= cable weight in kg/km)				
Crush		2000N/10cm				
Static bending radius		10xOD				
Impact		5Nm				
Torsion		± 180° /m				

See Point 6: Test Methods

4. Marking

Fiber Colors	1 red	2 green	3 blue	4 yellow	5 white	6 grey	7 brown	8 violet	9 turquoise	10 black	11 orange	12 pink
Fiber Colors	1 red	2 green	3 blue	4 yellow								

Outer Sheath: black, ink jet print, marking in 1 meter intervals as follows:

TO SM d S 3 mxn SMAN ZTT 2022 <Batch No.> ~  <meter marking >
--

5. Optical Fiber

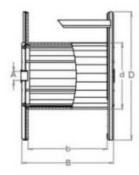
Standard	ITU-T G.652D	
Optical	Fibre attenuation .. cabled	@1310 nm ≤0.36 dB/km @1383 nm ≤0.36 dB/km @1550 nm ≤0.22 dB/km
	Zero Dispersion Wavelength	1300~1324 nm
	Zero Dispersion Slope	≤0.092 ps/nm ² ·km
	Chromatic dispersion at 1285~1330nm	≤3.5 ps/nm·km
	Chromatic dispersion at 1550nm	≤18.0 ps/nm·km
	PMD Individual Max.	0.2 ps/√km
	Cable Cutoff Wavelength (λ _{cc})	1150~1330 nm
	Macro bending Loss (100 turns; Φ60 mm) @1550 nm (100 turns; Φ60 mm) @1625 nm	≤ 0.05 dB ≤ 0.1 dB
Geometric	Mode Field Diameter	9.3±0.5 μm @1310nm
	Cladding Diameter	125±2μm
	Cladding non circularity	≤2%
	Core/clad concentricity error	≤0.6μm
Mechanical	Primary coating diameter	245 ±10μm
	Proof stress	≥1%(8N, 1S)
	Coating strip force	1~5N

6. Test Methods

Test	Conditions	Acceptance criteria
Tension Loading IEC 60794-1-2 E1	Tensile strength: See point3 Tensioned length: ≥ 25 m, 1min	- Fiber strain≤ 0.33% by clamps - Δα ≤0.05dB (no change) - No damage
Impact Resistance IEC 60794-1-2 E4	Impact energy: 5 Nm, R =300 mm, number of places/tests: 3 room temperature and -30°C	- Δα ≤0.05dB - No damage
Repeated Bending IEC 60794-1-2 E6	R=20D, 35 cycles, L=100N,	- Δα ≤0.05dB - No damage
Static bending IEC 60794-1-2 E11A	-10°C, R=10xOD, 5 turns, 3 cycles	- Δα ≤0.05dB - No damage
Torsion/Twist IEC 60794-1-2 E7	Sample length:1m, L=100N ± 180° /m, 5 cycles	- Δα ≤0.05dB - No damage
Crush/Compression IEC 60794-1-2 E3	Crush: 2000N/10cm, 1min Number of tests: 1	- Δα ≤0.05dB - No damage
Temperature cycling IEC 60794-1-2 F1	-30°C...+60°C t1=12h, 2 cycles	- Δα ≤0.05 dB/km
Water penetration IEC 60794-1-2 F5B	Sample length: 3 m,water column height: 1 m Test duration: 24 h,	- No leakage

All optical measurements at 1550 nm

7. Logistics

Cable type	Length (-1%/+3%)	2100±100m	 D*d*B in cm
OFC-8/12	Drum type: Wood Dimensions Weight	95*60*75 (130kg)	
OFC-24/36/48		100*60*75 (177kg)	

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

B	Mar 13, 2024	Yury	Erica	Xue Zhaojian	Remove 4f
A	June 16, 2022	Yury	Erica	Xue Zhaojian	/
Version	Date	Prepared	Reviewed	Approved	Remark