



Optical Fiber Cable Technical Specification

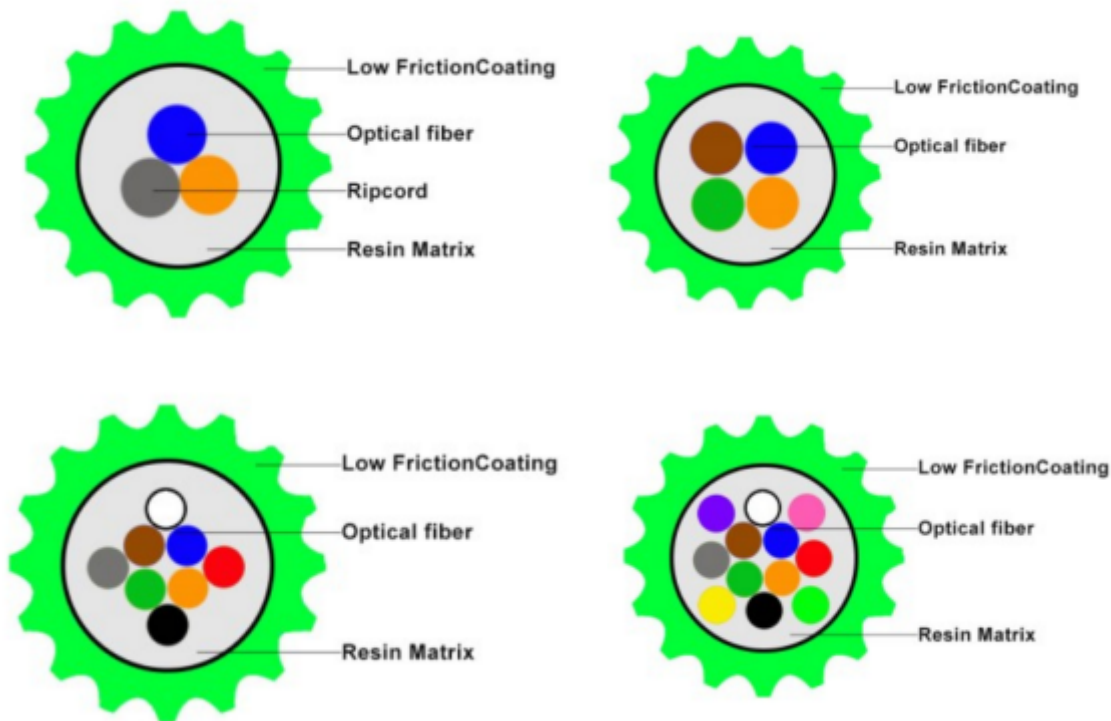
Cable Technical Specification

EPFU-2-12-G.652D

1 Optical Fiber Cable Type

Item	Model	Fiber Type	Fiber Count
Parameter	EPFU	G.652D	2-12
Note	Central Tube Cable	Compliant with ITU-T ITU-T G.652	2-12 Single-mode

2 Cross Section of Cable



3 Optical Fiber Type and Properties

Item	Wavelength / Condition	Unit	Specification G.652D
Mode field diameter	1310nm	μm	9.2±0.4
	1550nm	μm	10.4±0.5
Cladding diameter	—	μm	125±1
Cladding non-circularity	—	%	≤1.0
Core-to-cladding concentricity	—	μm	≤0.6
Coating diameter	—	μm	245±10
Coating-to-cladding concentricity	—	μm	≤12

Cut-off wavelength	—	nm	≤1260
Attenuation	1310nm	dB/km	≤0.350
	1383nm	dB/km	≤0.340
	1550nm	dB/km	≤0.20
	1625nm	dB/km	≤0.22
Chromatic dispersion	1310nm	ps/(nm·km)	0~4.0
	1550nm	ps/(nm·km)	16~20
Dispersion slope	—	ps/(nm ² ·km)	≤0.092
Zero dispersion λ	—	nm	1300~1324
PMD	—	ps/√km	≤0.15
Effective area Ae	1310nm	μm ²	80~90
Proof stress	—	kpsi	≥100kpsi / 0.69GPa

Other parameters meet standard ITU-T G.652D

4 Dimensions of Cable Constructions

Fibre Count	2 Fibres	4 Fibres	8 Fibres	12 Fibres
Attenuations (dB/km)	≤0.4 @1310nm	≤0.4 @1310nm	≤0.4 @1310nm	≤0.4 @1310nm
	≤0.3 @1550nm	≤0.3 @1550nm	≤0.3 @1550nm	≤0.3 @1550nm
Dispersion ps/(nm·km)	≤3.5 @1310nm	≤3.5 @1310nm	≤3.5 @1310nm	≤3.5 @1310nm
	≤18 @1550nm	≤18 @1550nm	≤18 @1550nm	≤18 @1550nm
Outer Diameter (mm)	1.18±0.05	1.15±0.05	1.50±0.05	1.65±0.05
Weight (g/m)	0.8	1	1.6	2.4
Min Bend diameter (mm)	40	40	60	80
Unit Color	Yellow	Yellow	Yellow	Yellow

Fiber Count	2	4	6	8	12
Outer Diameter (mm)	1.15±0.03	1.15±0.03	1.35±0.03	1.55±0.03	1.65±0.03
Weight (g/m)	1	1	1.3	1.8	2.2
Min Bend Radius (mm)	50	50	60	80	80
Jacket Color	Yellow	Yellow	Yellow	Yellow	Yellow

5 Cable Performance

Fibre Count	2 Fibres	4 Fibres	6 Fibres	8 Fibres	12 Fibres
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Test equipment	PLUMETTAZ:UM25, ERICSSON:F, CATWAY:FBT-1.1				
Standard duct	5.0/3.5 mm				
Pressure	7bar / 10bar				
Typical blowing distance	500m / 1000 m	500m / 1000m	500m / 1000m	500m / 1000m	500m / 800m
Typical blowing time	10 min / 18 min	10 min / 18 min	12 min / 18 min	13 min / 18 min	15 min / 20 min

Mechanical Performance (IEC 60794)

Test	Standard	Parameters	Criteria
Tension performance	IEC 60794-1-2-E1	Load is 1×W	fiber strain ≤0.4% at MAX
			Additional attenuation ≤0.05dB
			fiber strain ≤0.05% after test
Bend	IEC 60794-1-2-E11A	Diam 40mm×3turns	Additional attenuation ≤0.05dB,after test
		5 cycles at 20	
Crush	IEC 60794-1-2-E3	100 N, 60s	Additional attenuation ≤0.05dB,after test
Note 1 Test standard according to the latest Edition			
2 All optical testing proceeded at 1550 nm			

6 Fiber Colour Coding

Fiber No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink

Note: This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information



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