



Optical Fiber Cable Technical Specification

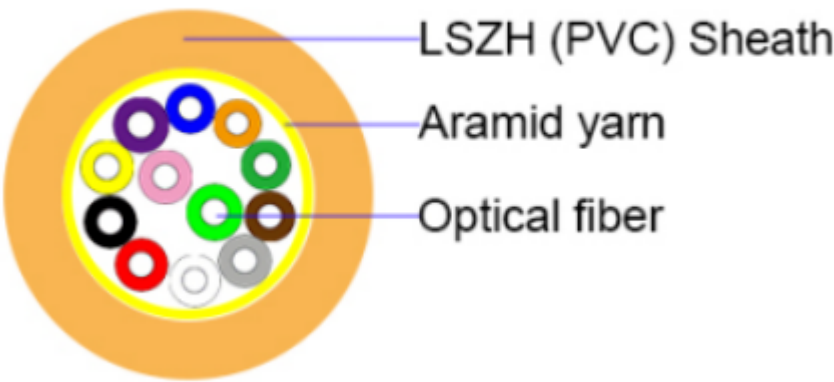
Cable Technical Specification

GJFJV/GJFJH-2-24

1 Optical Fiber Cable Type

Item	Model	Fiber Type	Fiber Count
Parameter	GJFJV/GJFJH	G.652D,G657A1,G657A2,OM1,OM2,OM3,OM4	1-24
Note	Indoor Multi-cores Cable	Compliant with ITU-T ITU-T G.652	1-24 Single-mode

2 Cross Section of Cable



3 Optical Fiber Type and Properties

Fiber Type	Attenuation1310/1550nm(dB/km)	Attenuation850/1300nm(dB/km)	Overfilled Launch Bandwidth850/1300nm(MHz·km)	Effective Modal Bandwidth850nm(MHz·km)	10Gb/s Ethernet link length850nm(m)	Min Bending Radius(mm)
G.652D	0.36 / 0.22	—	—	—	—	16
G.657A1	0.36 / 0.22	—	—	—	—	10
G.657A2	0.36 / 0.22	—	—	—	—	7.5
50/125	—	3.0 / 1.0	≥500 / 500	—	—	30
62.2/125	—	3.0 / 1.0	≥200 / 500	—	—	30
OM3	—	3.0 / 1.0	≥1500 / 500	≥2000	≥300	30
OM4	—	3.0 / 1.0	≥3500 / 500	≥4700	≥550	30

4 Dimensions of Cable Constructions

Fiber count	Cable diameter	Cable weight (KG/KM)	Tension(N)		Crush (N/100MM)		Crush resistance (N/100mm ²)
			Long term	Short term	Long term	Short term	
4	4.8	19	90	270	10D	20D	1000
6	5.2	23	110	330	10D	20D	1000
8	6.2	29	160	480	10D	20D	1000
12	6.8	38	200	600	10D	20D	1000

16	7.4	48	220	660	10D	20D	1000
24	8.2	60	240	720	10D	20D	1000

5 Cable Performance

Materials

Item	Material/Parameter	Specification
Fiber Material	Silica	G.652D,G657A1,G657A2,OM1,OM2,OM3,OM4
Loose tube	Material	PBT
Loose tube	Color	All color display
Filler	PP	
CSM	Metallic strength member	
Outer jacket	Material	MDPE
Outer jacket	Color	Black

Mechanical Performance (IEC 60794)

No.	Item	IEC Standard	Test Method	Acceptance Criteria
1	Tensile Strength	IEC 60794-1-21-E1	➤ Load: 1500 N ➤ Cable length: ≥50 m ➤ Loading time: 1 min	➤ Loss change after test < 0.2 dB @1550 nm ➤ No fiber breakage and no sheath damage
2	Crush Test	IEC 60794-1-21-E3	➤ Load: short-term compression ➤ Loading time: 1 min	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
3	Impact Test	IEC 60794-1-21-E4	➤ Impact surface radius: 300 mm ➤ Impact energy: 10 J ➤ Impact times: 1 per point, 3 times in total	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
4	Repeated Bending	IEC 60794-1-21-E11	➤ Bending radius: 20D (D = cable diameter) ➤ Number of cycles: 25	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
5	Twist Test	IEC 60794-1-21-E7	➤ Sample length: 2 m ➤ Twist angle: ±180° ➤ Number of cycles: 10	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
6	Cable Bend Test	IEC 60794-1-21-E10	➤ Mandrel diameter: 20 × OD ➤ Number of turns: 4 ➤ Number of cycles: 3	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
7	Water Penetration	IEC 60794-1-21-F5C	➤ Water level: 1 m ➤ Sample length: 3 m ➤ Test time: 24 h	➤ Loss change after test ≤ 0.1 dB @1550 nm ➤ No fiber breakage and no sheath damage
8	Temperature Cycling	IEC 60794-1-22-F1	➤ Temperature range: -	➤ Loss change ≤ 0.1

			40°C to +70°C ➤ Duration per step: 12 h ➤ Number of cycles: 2	dB/km @1550 nm ➤ No fiber breakage and no sheath damage
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6 Fiber Colour Coding

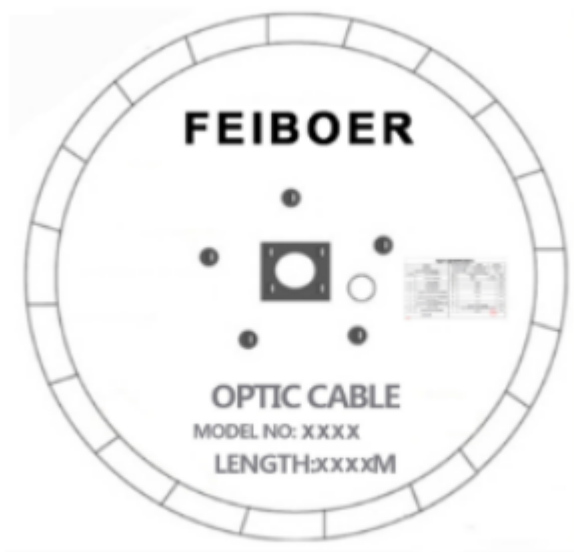
Fiber No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

Note: When the fiber count per loose tube exceeds 12, fibers beyond 12 follow the color sequence above with color band/dot marking to distinguish (e.g., #13=Blue+band1, #14=Orange+band1...).

7 Packaging Information

Item	Description
Drum Type	Fumigation-free wood veneer, plywood drum, or steel drum — selected according to cable dimensions and weight.
Sealing	Sealed with rigid wooden boards or cardboard.
Standard Lengths	1000 m, 2000 m, 3000 m, 5000 m per drum (tolerance +2%).
End Reserve	At least 3 meters of cable reserved at each end for testing.

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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