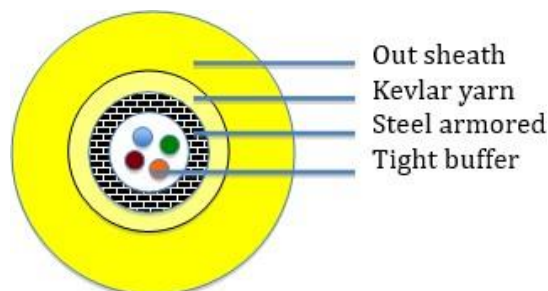


Optical Cable for Indoor (GJFJV)

Cable design:

Cross-sectional Drawing of Cable

Cable Description:

Indoor cable.

2~12 fiber, $\Phi 550\mu\text{m}$, steel wire, tight buffer fiber, layer of Kevlar yarn, LSZH Jacket. Certificates:

ISO9002, SGS, ROHS, ULE329066, REACH

Characteristics:

Good mechanical and environmental characteristics;

Soft, flexible, easy to splice, and with big capacity data transmission;

Flame retardant characteristics meets the requirements of relevant standards

Fiber style		Unit	SM G652D	MM 50/125	MM 62.5/125	OM3, OM4-300 50/125
condition		nm	1310/1550	850/1300	850/1300	850/1300
attenuation		dB/km	$\leq 0.36/0.23$	$\leq 3.0/1.0$	$\leq 3.0/1.0$	$\leq 3.0/1.0$
Dispersion	1310nm	Ps/(nm*km)	≤ 18	.....	.....	.....
	1550nm	Ps/(nm*km)	≤ 22	.....	.....	.....
Bandwidth	850nm	MHZ. KM		≥ 400	≥ 400	≥ 500
	1300nm	MHZ. KM		≥ 800	≥ 800	≥ 1500
Zero dispersion wavelength		nm	$\geq 1302, \leq 1322$	.....	.....	.....
Zero dispersion slope		nm	≤ 0.091	.....	.....	.....
PMD Maximum Individual Fiber			≤ 0.2	.....	.....	.....
PMD Design Link Value		Ps(nm ² *km)	≤ 0.08	.....	.....	.....
Fiber cutoff wavelength λ_c		nm	$\geq 1180, \leq 1330$	.....	.....	.....
Cable cutoff wavelength λ_{cc}		nm	≤ 1260	.....	.....	.....
MFD	1310nm	um	9.2 ± 0.4	.....	.....	.....
	1550nm	um	10.4 ± 0.8	.....	.....	.....
Numerical Aperture (NA)			.....	0.200 ± 0.015	0.275 ± 0.015	0.200 ± 0.015



Step (mean of bidirectional measurement)	dB	≤0.05	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point discontinuity	dB	≤0.05	≤0.10	≤0.10	≤0.10
Difference backscatter coefficient	dB/km	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	.....	.....	.....
Core diameter	um	.....	50±1.0	62.5±2.5	50±2.5
Cladding diameter	um	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242±7	242±7	242±7	242±7
Coating/chaffinch concentricity error	um	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤1.5	≤1.5	≤1.5
Curl(radius)	um	≤4	.....	.....	.....

Cable construction details:

Technical Parameters:										
No	Out Diameter	Tight buffer	Weight	Min. allowable Tensile Strength(N)		Min. allowable Crush Load (N/100mm)		Min. Bending Radius (MM)		Storage
		Diameter								temperature
Core	(MM)	(MM)	(KG)	short term	long term	short term	long term	short term	long term	(°C)
2	3	0.6		1000	300	1000	500	20D	10D	40
4	4	0.6		1000	300	1000	500	20D	10D	40
6	4.5	0.6		1000	300	1000	500	20D	10D	40
8	5	0.6		1000	300	1000	500	20D	10D	40
12	6	0.6		1000	300	1000	500	20D	10D	40
24	10.5	0.6		1000	300	1000	500	20D	10D	40

Testing Lab:

No	Device name	No	Device name
1	Optical time domain reflectometer (OTDR)	8	GNZV Cable Torsion Testing Machine
2	Fiber Polarization Mode Dispersion	9	GQNV Cable Flexing Testing Machine
3	Fiber Dispersion, Strain Tester	10	GJRV Cable Winding Testing Machine
4	High Low Temperature Test Chamber	11	GZDV Cable Vibration Testing Machine
5	Cable Impact Testing Machine	12	Cable Water Penetration Test
6	Cable Squash Tensile Testing Machine	13	Fusion Splicer
7	GWQV Cable Bending Tester	14	Cable Water Penetration Test Rig

Fiber Optic Cable Mechanical Performance Testing Laboratory:

1. Main Testing Type: Precision Test and Mechanical Test.
2. Precision Testing Machine: EXFO OTDR, EG&G PMD-440, CD-400.
3. Mechanical Performance Testing: Temperature, Impact, Tensile, Bending, Torsion, Flexing, Winding, Vibration, Water Penetration, Fusion Splicer, Water Penetration.

Application:

- Used in pigtails and patch cords;



- Used in optical connections in optical communication equipment rooms and optical distribution frames;
- Used in optical connections in optical apparatus and equipment.

Cable marking:

The cable sheath shall be marked with white characters at intervals of one meter with following information:

1	2	3	4	5	6
Brand name	Fiber type and counts	Cable type	Name of manufacturer	Country of origin	Length marking

Part Number:

Items Name	Part Number
6 core MM (50/125um) (OM3) Indoor Type Armored cable	6F-GJFJV-O3-AT
6 core MM (50/125um) (OM4) Indoor Type Armored cable	6F-GJFJV-O4-AT

