

Indoor Multi-core Bundle Fiber Optic Cable(GJPFJV)

1、 Cable Drawing



2、 Description

(GJPFJV) Indoor multi-core bundle fiber optic cable, made by evenly applying strands of Aramid yarns or High strength glass yarns as the strength member over $\phi 900\mu\text{m}$ or $\phi 600\mu\text{m}$ tight buffer fibers and then is completed with PVC(LSZH) jacket.

3、 Features

- Tight buffer fiber ease of stripping
- Tight buffer fiber have excellent flame-retardant performance
- Aramid yarn as strength member make cable have excellent tensile strength
- The jacket anti-corrosion, anti-water, anti-ultraviolet radiation
- All dielectric structure protect it from electromagnetic influence
- Scientific design with serious processing art

4、 Application

- Data communication
- Fiber optic equipment and instrument
- Places where waterproof is not strictly required
- Making jumper, pigtail and building distribution

5. Specification

1) Fiber Allocation Scheme

Fiber number	Tube number	Fiber per tube	Fiber type
2 ~ 24	1	2 ~ 24	Single mode or Multi mode

2) Cable construction details

Item		Description
Fiber Counts		2-24 cores
Strength Member	Material	Aramid yarn
	Color	Yellow
Tight Buffer	Dia (mm)	0.9±0.05mm
	Material	PVC (LSZH、Hytrek、 PA or Customer required)
	Color	12 Colors
Outer Jacket	Material	PVC (LSZH or Customer required)
	Color	Yellow, Aqua, Purple or Orange
	Thickness(mm)	0.8±0.3 mm

3) Standard color of fiber and tube

The color code of the tubes and the individual fibers, shall be in accordance with the table as below:

Standard Colour Identification						
No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Slate	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua
Color 13~24 will be marked with a black tracer.						
For black color no need marked black tracer, will use nature color instead						

Note: The color can be required by customers.

4) Cable Mechanical characteristic

Item	Cable Dia (mm)	Weight (kg/km)	Allowable Tensile Strength(N)		Crush Load (N/100mm)	
			Long term	short term	Long term	short term
GJFJV-2 Xn	4±0.2	17	80	200	300	1000
GJFJV-4 Xn	4.8±0.2	22	90	270	300	1000
GJFJV-6 Xn	4.8±0.2	25	110	330	300	1000
GJFJV-8 Xn	5.6±0.2	30	160	480	300	1000
GJFJV-10 Xn	5.8±0.2	36	180	500	300	1000
GJFJV-12 Xn	6.2±0.3	38	200	600	300	1000
GJFJV-16 Xn	7.5±0.3	48	220	660	300	1000
GJFJV-20 Xn	7.8±0.3	55	240	680	300	1000
GJFJV-24 Xn	8.4±0.3	58	260	720	300	1000
Min Bending Radius(mm)	Long term	10D				
	Short term	20D				
Temperature characteristic	Base on the working temperature range: Dwell time 8H / 2cycles. The variation on attenuation: SM≤0.5 dB/km; MM≤0.3 dB/km					
Hight temperature and humidity ability	≥500h, 85°C/85%RH, No damage to the sheath.					
Installation Temperature range	-5 ~ +50°C					
Operation and transport temperature	-20 ~ +60°C					

NOTE : Xn indicates the selected fiber models

5) Requirement for Order

- (1) Fiber sort: Single mode:G652,G657, Multi mode:OM1,OM2,OM3,OM4.
- (2) Fiber brand: YOFC, Corning, Fiberhome,Fujikura,OFS etc.
- (3) Jacket material: PVC、LSZH (can be required).
- (4) The fiber and tube color: according to stranded color, can be required.
- (5) Length of cable: generally is 2KM, can be required.
- (6) Other requirement: can be negotiated.

6) Fiber optical Characteristic (after cable)

Fiber type	Attenuation				OFL bandwidth	Effective modal bandwidth	10 Gb/s Link Length
	1310/1550nm		850/1300nm				
Conditions	Typical	Maximum	Typical	Maximum	850/1300nm	850nm	850nm
Unit	dB/km	dB/km	dB/km	dB/km	MHz.km	MHz.km	m
G652D	0.5/0.4	0.8/0.6	/	/	/	/	/
G657A1	0.5/0.4	0.8/0.6	/	/	/	/	/
G657A2	0.5/0.4	0.8/0.6	/	/	/	/	/
G657B3	0.5/0.4	0.8/0.6	/	/	/	/	/
62.5/125	/	/	3.5/1.0	3.5/1.5	≥160/500	/	/
50/125/ OM1	/	/	3.0/1.0	3.5/1.5	≥200/500	/	/
50/125/ OM2	/	/	3.0/1.0	3.5/1.5	≥500/500	/	/
OM3-150	/	/	3.0/1.0	3.5/1.5	≥700/500	≥950	150
OM3-300	/	/	2.5/0.8	3.5/1.5	≥1500/500	≥2000	300
OM4-550	/	/	2.5/0.8	3.5/1.5	≥3500/500	≥4700	550

Note: The above optical characteristics are after cable

6、 Cable marking and cable reel marking

6.1 Cable marking

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

- (1) Purchaser' s name
- (2) Cable type
- (3) Fiber type and counts
- (4) Year of manufacture
- (5) Length marking

Notice: cable mark is available if requested by customer.

6.2 Cable reel

Details given below shall be marked with a weather materials on both outer sides of the reel flange :

- (1) Cable type and fiber counts
- (2) Length of cable in meters
- (3) Year of manufacture



Notice: shipping mark is available if requested by customer.

7、 Packing Informations

- (1) Packing material: Wooden drum
- (2) Packing length: standard length of cable shall be 2 km. Other cable length is also available if required by customer

8、 Our certificates

- (1) ISO9002
- (2) SGS, ROHS
- (3) ULE329066
- (4) REACH

9、 Our advantages

- (1) Professional cable manufacturer
- (2) About 10 years experiences in cable industry
- (3) MOQ just 1Km
- (4) ISO, UL , ROSH,REACH...certifications
- (5) Can be customized production of fiber optic cable