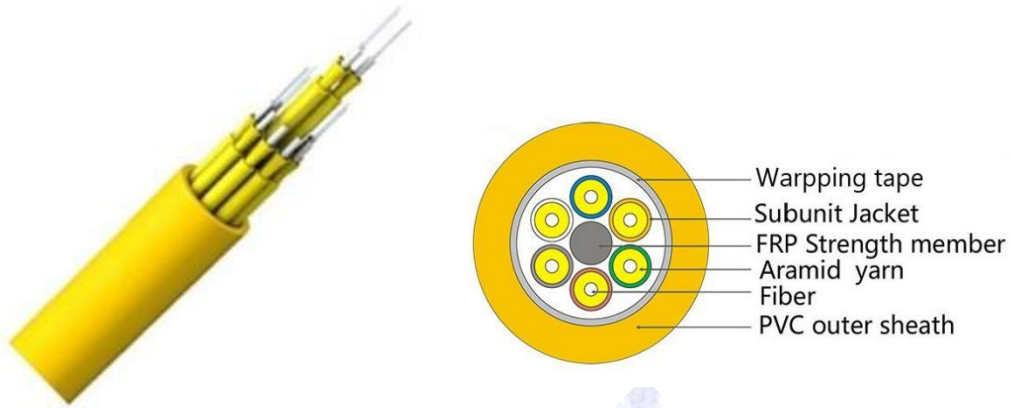# Indoor Multi-core Break-out Fiber Optic Cable(GJBFJV)

1、Cable Drawing

2、Description

(GJBFJV) Indoor multi-core break-out fiber optic cable, the tight buffer fiber is placed on the surface with a layer of aramid yarn as strength member units, multi fibers as the subunit twist with FRP(and some cushions) into the circle, and finally into fiber optic cable with PVC or LSZH sheath,with dry-type warpping tape between fiber and sheath.

3、Features

- Tight buffer fiber ease of stripping
- Tight buffer fiber have excellent flame-retardant performance
- Non-metal central strenght member
- 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

- Used in indoor cabling, especially used as breakout cable
- Used as access building cable
- Used as interconnect line of equipments, and used in optical connections in optical communication equipment rooms and distribution frames
- Used in pigtails and patch cords.

5、Specification

1) Fiber Allocation Scheme

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

2) Cable construction details

Item		Description
Fiber Counts		2-24 cores
Strength Member	Material	FRP
	Dia (mm)	4.0
Outer Jacket	Material	PVC (LSZH or Customer required)
	Color	Yellow, Aqua or Orange
	Thickness(mm)	1.0±0.1 mm
Subunit		
Strength Member	Material	Aramid yarn
	Color	Yellow
Tight Buffer	Dia (mm)	0.9±0.05mm
	Material	PVC (LSZH、Hytrel、PA or Customer required)
	Color	White
Subunit Jacket	Material	PVC (LSZH or Customer required)
	Color	Yellow, Aqua or Orange
	Dia (mm)	2.0 +0.05/-0.2
	Thickness(mm)	0.2±0.05 mm

3) 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
GJFV-2 Xn	7.5±0.5	50	120	400	300	1000

GJFV-4 Xn	7.5±0.5	55	120	400	300	1000
GJFV-6 Xn	9±0.5	85	200	700	300	1000
GJFV-8 Xn	10.5±0.5	100	250	800	300	1000
GJFV-10 Xn	11.5±0.5	110	300	1000	300	1000
GJFV-12 Xn	12.5±0.5	130	400	1200	300	1000
GJFV-16 Xn	13±0.5	145	450	1250	300	1000
GJFV-18 Xn	14±0.5	160	500	1300	300	1000
GJFV-20 Xn	14.5±0.5	170	550	1350	300	1000
GJFV-24 Xn	15.5±0.5	205	600	1400	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℃/85%RH, No damage to the sheath.				
Installation Temperature range		-5 ~ +50℃				
Operation and transport temperature		-20 ~ +60℃				

NOTE : Xn indicates the selected fiber models

4) 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.

5) Fiber optical   Characteristic (after cable)

Fiber type	Attenuation				OFL bandwidth	Effective modal bandwidth	10 Gb/s Link Length
Conditions	1310/1550nm		850/1300nm		850/ 1300nm	850nm	850nm
	Typical	Maximum	Typical	Maximum			

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 reques

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