



GUANGDONG CHANGCHENG COMMUNICATION TECHNOLOGY CO., LTD

TECHNICAL SPECIFICATION
FOR
Tight Buffer GJFJV indoor optic fiber cable

★Products: Fiber optic cable

★Customer:

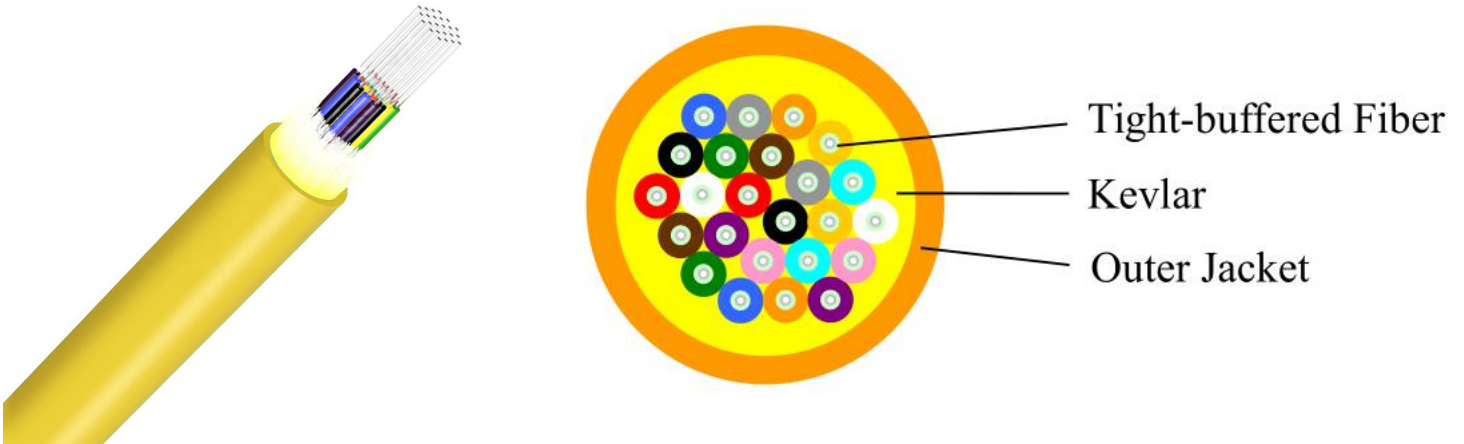
★Date: March 21, 2020

★Authorized by: **Miya Gao**

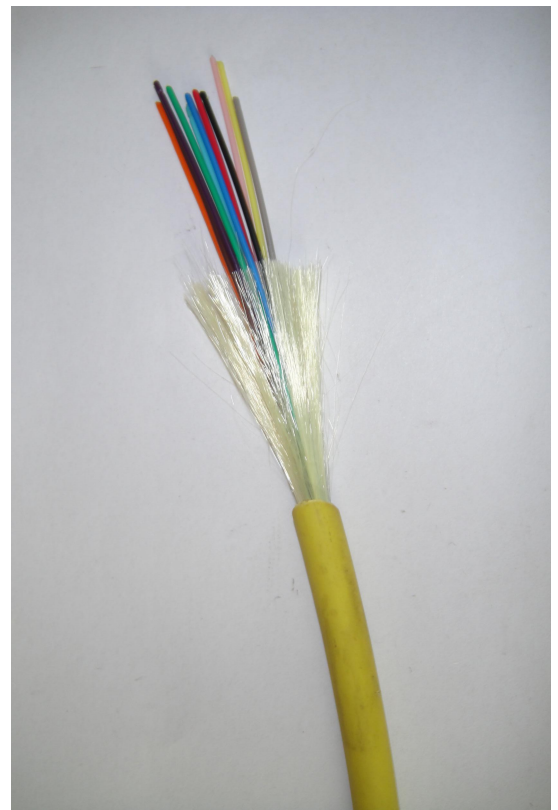
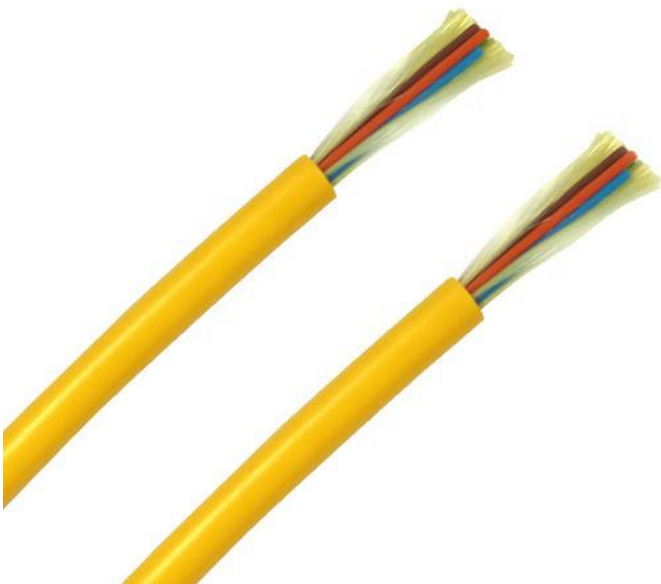
★Address: No.1 Foling Road, Liaobu Town, Dongguan city, Guangdong Province China 523000



• Product physical structure:



• Product physical Map:





• Description

GJFJV indoor fiber optic cable is made by evenly applying strands of Aramid yarns or High strength glass yarns as the strength member over 900μm or 600μm tight buffer fibers and then is completed with LSZH jacket.

• Characteristics

1. Good mechanical and temperature performance
2. Small diameter, light weight, flame retardant, excellent strippability
3. Low-attenuation, High flexibility
4. No need for transition connector box or pigtail between tight buffer fiber and cable, low cost with installation cause to it's no needs to clean the water-proofing ointment.

• Standards

IEC 60793-1	Optical fiber : Generic specifications
IEC 60793-2	Optical fiber : Product specifications
IEC 811-1	Water Absorption
IEC 1034	Smoke Emission
IEC 754-1	ACID GAS EMISSION
ITU-T G.657	Characteristics of a single-mode optical fiber and cable
EIA/TIA 598	Color code of fiber optic cables
ROHS/CE	Complies with standard CE&ROHS
ISO	ISO9001:2015
Test Standard	IEC 60794-1-2 E1/IEC 60794-1-2 E3/IEC 60794-1-2 E4
Fiber	The optical fiber is made of high pure silica and germanium doped silica.

• Optical Characteristics

4.1 SINGLE MODE G.657A1		Before	After
Optical Specifications	Attenuation @1310 nm	≤0.36 dB/km	≤0.4 dB/km
	Attenuation @1383 nm	≤0.34 dB/km	≤0.4 dB/km
	Attenuation @1550 nm	≤0.25 dB/km	≤0.3 dB/km
	Attenuation @1625 nm	≤0.26 dB/km	≤0.3 dB/km
	Zero Dispersion Wavelength	1300~1324 nm	



	Zero Dispersion Slope	$\leq 0.092 \text{ ps/mi}^2\text{-km}$
	Cable Cutoff Wavelength (Acc)	$\leq 1260 \text{ nm}$
	Macro bending Loss	
	(1turns ; $\phi 20 \text{ mm}$) @1550 nm	$\leq 0.75 \text{ dB}$
	(1turns: $\phi 20 \text{ mm}$) @1625 nm	$\leq 1.5 \text{ dB}$
	(10 turns; $\phi 30 \text{ mm}$) @1550 nm	$\leq 0.25 \text{ dB}$
	(10 turns; $\phi 30 \text{ mm}$) @1625 nm	$\leq 1.0 \text{ dB}$
Dimensional Specifications	Mode Field Diameter @1310 nm	$8.6 \pm 0.4 \mu\text{m}$
	Cladding Diameter	$125 \pm 0.7 \mu\text{m}$
	Cladding non circularity	$\leq 1.0\%$
Mechanical Specifications	Core/clad concentricity error	$\leq 0.5 \mu\text{m}$
	Proof stress	$\geq 0.69 \text{ GPa}$

• Cable details

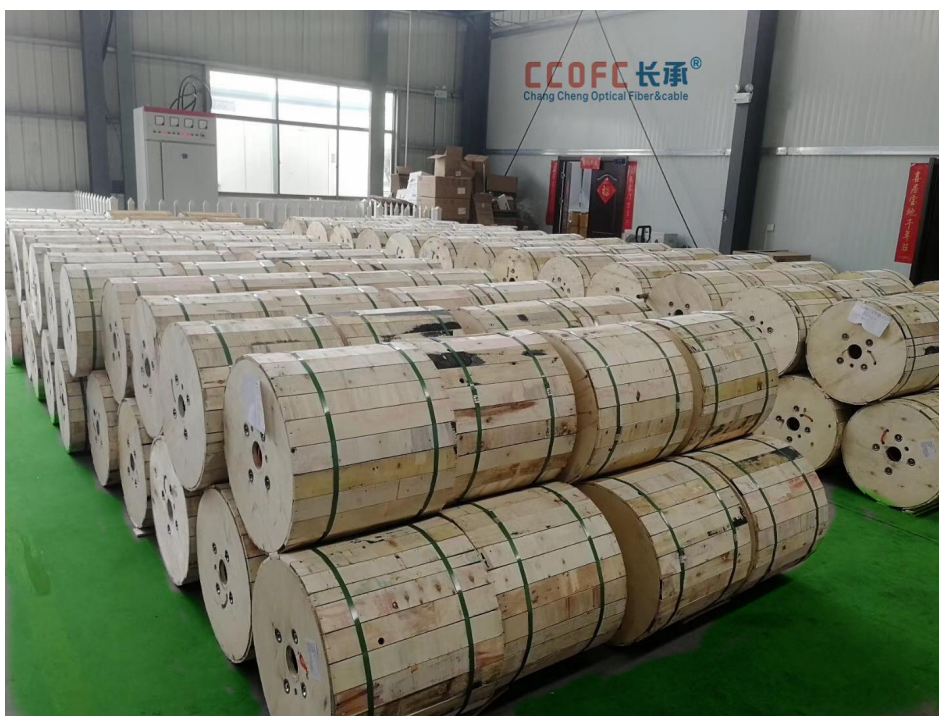
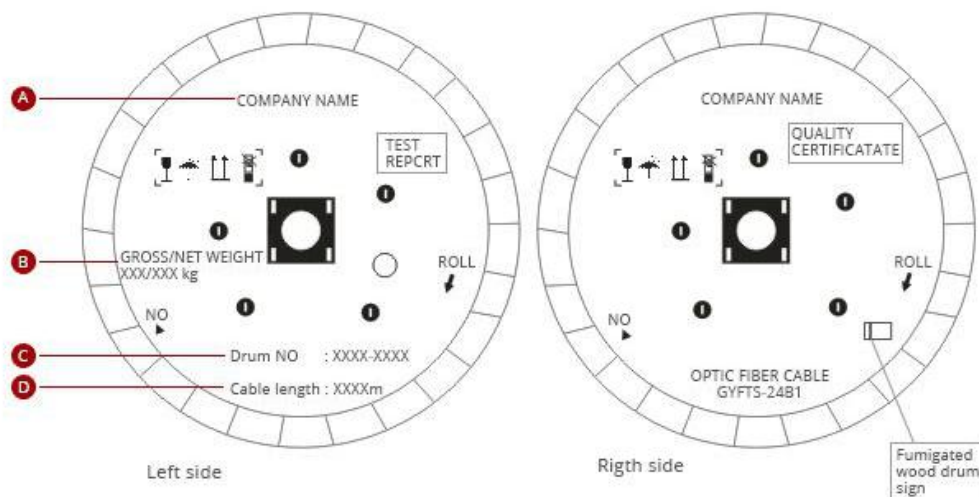
Physical	Fiber count/G652D	48	
	Outer sheath(Jacket)	LSZH	White color
		Nominal thickness: 1.2mm	
	Tight-buffered Fiber	OD:2.0	
	Fiber colors	12colors	
	Outer sheath	HDPE black	
	Cable OD	9.0±0.3mm.	
	Cable weight	60±5kg / km	
	Operation temperature range	-20 deg C to + 70 deg C	
	Installation temperature range	-15 deg C to + 60 deg C	
	Transport and storage temperature range	-20 deg C to + 70 deg C	
Mechanical	Minimum tensile load	1000N	
	Crush resistance	400N/10cm	
	Minimal dynamic bending radius	20xOD	
	Minimal static bending radius	15xOD	

• Packing and Marking

- 1、Standard wooden drum.
- 2、Cable length per drum: 2000m/drum
- 3、Cable end sealed.



4、Drum diameter > 30 time of cable diameter.



END