



GUANGDONG CHANGCHENG COMMUNICATION TECHNOLOGY CO., LTD

TECHNICAL SPECIFICATION
FOR
ADSS ALL DIELECTRIC SELF SUPPORT FIBER OPTIC CABLE
(G.652D SPAN100M)

★**Products:** Optical Fiber Cable

★**Customer:**

★**Date:** Jan 14, 2020

★**Authorized by:** Steven zheng

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

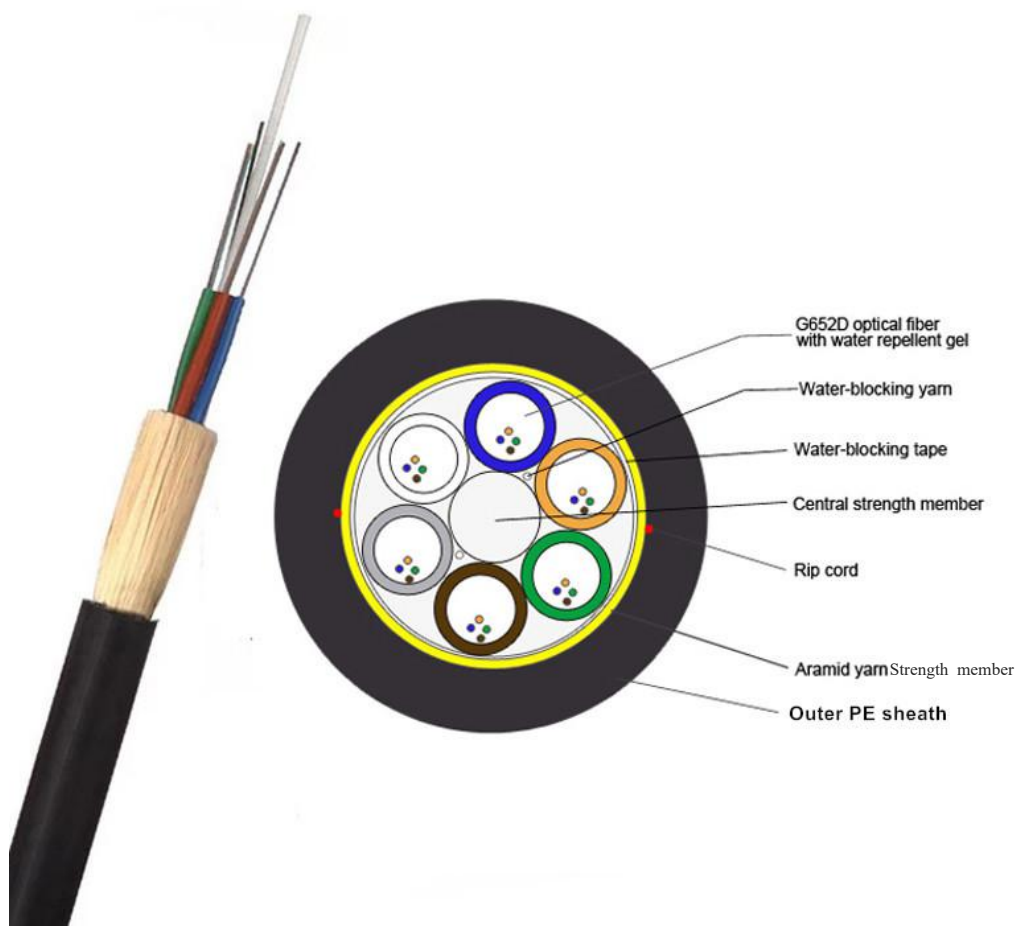


FIBER COLOR CODE



Color												
												
No. of fiber	1	2	3	4	5	6	7	8	9	10	11	12

• Product physical structure:



ISO9001 CE RoHs



• Description

The optical fiber is made of high pure silica and germanium doped silica. UV curable acrylate material is applied over fiber cladding as optical fiber primary protective coating. The detail data of optical fiber performance are shown in the following table.

• Cable Characteristics

- 1、 Outer sheath (PE black)
- 2、 Strength member (Aramid yarn)
- 3、 Loose tube, fiber and jelly
- 4、 Central strength member (FRP)
- 5、 Cable jelly
- 6、 Ripcord (red*1)

• Technical Characteristics

- The unique extruding technology provides the fibers in the tube with good flexibility and bending endurance.
- The unique fiber excess length control method provides the cable with excellent mechanical and environmental properties
- Multiple water blocking material filling provides dual water blocking function
- Provide good tension performance

• Application

Physical	Fiber count (G.652D)	12	24	36	48
	No of loose tube / filler	1/5	2/4	3/3	4/2
	Fiber No. per tube	12			
	Central strength member	FRP			
	Strength member	Aramid yarn			
	Outer sheath	PE black			
	Cable OD	9.8mm±5%			
	Cable weight	90kg/km±15%			
	Operation temperature range	-40 deg C to + 60 deg C			
	Installation temperature range	-15 deg C to + 50 deg C			
	Transport and storage temperature range	-40 deg C to + 60 deg C			
Mechanical	Max tensile load	2200N			
	Crush resistance	1000 N/10cm			
	Minimal installation bending radius	20xOD			
	Minimal operation bending radius	10xOD			



• Standards

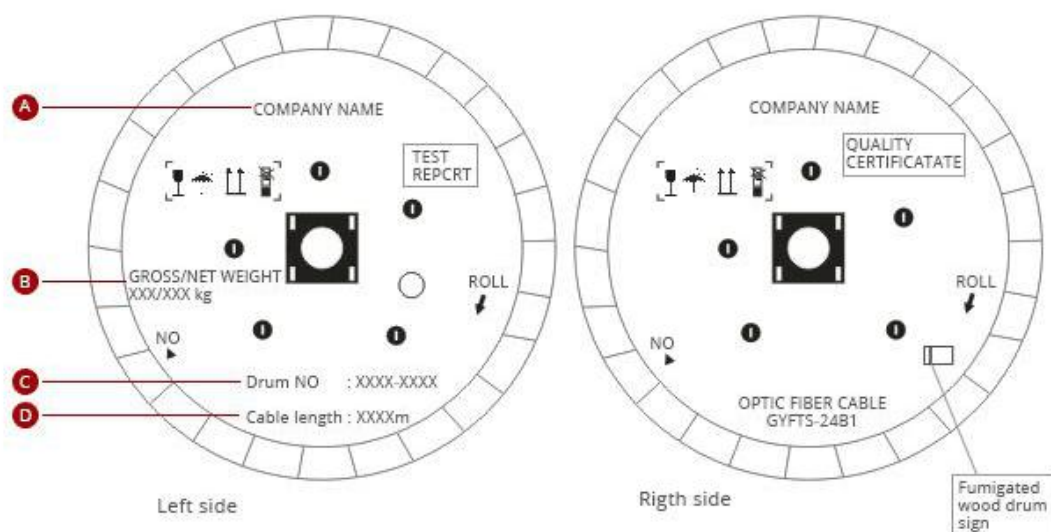
IEC 60793-1	Optical fiber Part 1: Generic specifications
IEC 60793-2	Optical fiber Part 2: Product specifications
IEC 60794-4-20	Optical fiber cables-Part 4-20: Aerial optical cables along electrical power lines-Family specification for ADSS(All Dielectric Self Supporter) optical cables
ITU-T G.650	Definition and test methods for the relevant parameters of single-mode fibers
ITU-T G.652	Characteristics of a single-mode optical fiber and cable
EIA/TIA 598	Color code of fiber optic cables

• Fiber Characteristics G.652D

Category	Description	Specifications	
		Before cabling	After cabling
Optical Specifications	Attenuation @1310 nm	SO.34 dB/km	<0.36 dB/km
	Attenuation @1550 nm	<0.20 dB/km	<0.22 dB/km
	Zero Dispersion Wavelength	1300-1324 nm	
	Zero Dispersion Slope	<0.092 ps/nm ² -km	
	PMD	<0.2 ps/Vkm	
	Cable Cutoff Wavelength (λ_{cc})	<1260 nm	
	Macro bending Loss (100 turns; O50 mm) @1550 nm (100 turns; O50 mm) @1625 nm	<0.05dB <0.10dB	
	Mode Field Diameter @1310 nm	9.2±0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1.0μm	
	Core/clad concentricity error	^0.6μm	
	Cladding Non-Circularity	^1.0%	
Mechanical Specifications	Proof stress	>0.69Gpa	



• Packing and Marking



- 1、Standard wooden drum.
- 2、Cable length per drum: not less than 2000m to 4000m.(with toleranee 0.5%).
- 3、Cable end sealed.
- 4、Drum diameter > 30 time of cable diameter.

END