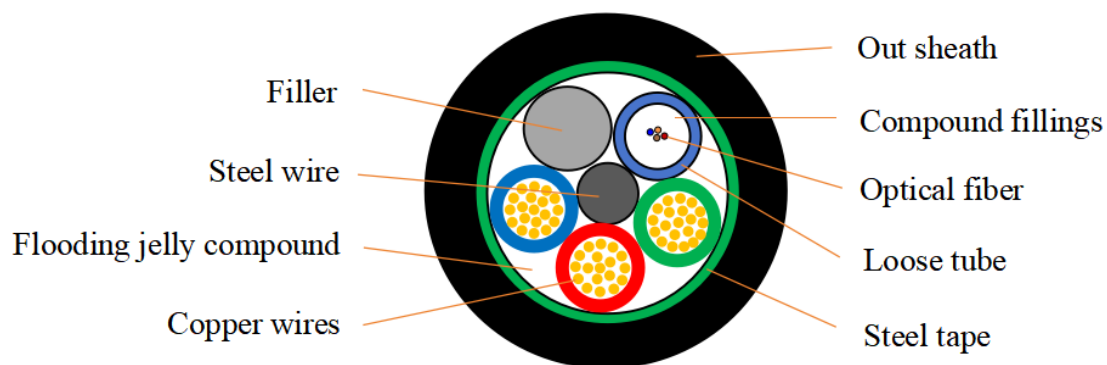


GDTs-4B1.3+RV3*2.5 Product specification

1.Cross Section of Cable:



2.Fiber parameter:

Item		Unit	Specification
Fiber Type			G.652D
Mode field diameter	1310nm	μm	9.2±0.4
	1550nm	μm	10.4±0.8
Cladding diameter		μm	125.0±1
Cladding non circularity		%	≤1.0
Core/cladding concentricity error		μm	≤0.5
Coating diameter		μm	245±10
Coating non Circularity		%	≤6.0
Coating/cladding concentricity error		μm	≤12.0
Cable cut-off wavelength		nm	≤1260
Zero Dispersion Wavelength		nm	1300 ~ 1324
Zero Dispersion Slope		ps/(nm ² ·km)	≤0.092
Chromatic Dispersion	1288 ~ 1339	ps/(nm·km)	≤3.5
	1550	ps/(nm·km)	≤18
	1625	ps/(nm·km)	≤22
Attenuation Coefficient	1310nm	dB/km	≤0.36
	1550nm	dB/km	≤0.22
	1383nm	dB/km	≤0.35
	1625nm	dB/km	≤0.30
Proof stress level		kpsi	≥100

Note: Other parameters meet standard ITU-T G.652

3.Cable Performance:

Item		Parameters
Fiber Count		4
Colored coated fiber	Dimension	250 μ m $\pm$ 15 μ m
	Color	Blue、Orange、Green、Brown
Loose tube	Dimension	1.9mm $\pm$ 0.2mm
	Material	PBT
	Color	Blue
Central Strength member	Dimension	1.5mm $\pm$ 0.1mm
	Material	Phosphating steel wire
Copper wires 2.5	Dimension	4.5mm $\pm$ 0.4mm
	Material	PVC/LSZH
	Color	Red、Blue、Green
Armoured	Material	Plastic coated steel strip
Outer jacket	Dimension	11.8mm $\pm$ 0.3mm
	Material	MDPE
	Color	Black

4.Fiber & Tube Color

NO.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	Natural
						
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua
						

5. Insulated conductor electrical properties:

Conductor cross-sectional area	(20°C) (Ω/km) The biggest single conductor dc resistance (20°C) (Ω/km)	(20°C) (MΩ.km) Insulation resistance (20°C) (MΩ.km)	Insulation compressive strength KV,DC1minutes		
		Every insulated wire and cable connected between the other metal	Wires between	Wire and gold With a sheathed	Wire and Between the wire
2.5	7.98	Not less than10000	5	5	3

6. Mechanical and Environmental Characteristics:

Item	Unit	Specifications
Tension (Long Term)	N	600
Tension (Short Term)	N	1500
Crush (Long Term)	N/100mm	300
Crush (Short Term)	N/100mm	1000
Min.Bend Radius (Static)	mm	10D
Min. Bend Radius (Dynamic)	mm	20D
Installation Temperature	°C	-40~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70
Repeating bending	Load: 250N;number of cycles:30 No obvious addition attenuation, no fiber break and no cable damage.	
Torsion	Load: 250N; number of cycles:10; twist angle: ±90° No obvious addition attenuation, no fiber break and no cable damage.	
Impact	Impact energy: 450g×1m; radius of hammer head:12.5mm; number of impact: 5 No obvious addition attenuation, no fiber break and no cable damage.	

7.The characteristics of the fiber:

S/N	Item	Standard	Specification
1	Tensile strength	IEC 60794-1-2 Method E1	-Short term tension: $\geq 0.5G$ -Long term tension: $\geq 0.15G$ -G=1km weight: N
2	Crush	IEC 60794-1-2 Method E3	-Long term:150N -Short term:450N
3	Repeat bending	IEC 60794-1-2 Method E6IEC	-Loading 25N; 25cycles
4	Twisted	IEC 60794-1-2 Method E7	-Loading 40N; 5 cycles
5	Water penetration	IEC 60794-1-2 Method F5	1m water column, 3m cable sample, 24hours
6	Blowing Performance	IEC 60794-5	- Additional attenuation is less than after air blowing

8.Packing and Marking

- 1.Each single length of cable shall be reeled on Fumigated Wooden Drum.
- 2.Covered by plastic buffer sheet .
- 3.Sealed by strong wooden battens.
- 4.At least 1 m of inside end of cable will be reserved for testing.
- 5.Drum length: Standard drum length is 3, 000m $\pm 2\%$.

9.Drum Marking(can according to the requirement in the technical specification)

1. Manufacturer's name.
- 2.Type of wire.
- 3.Year and month of manufacture.
- 4.Length marking each meter along the wire.
- 5.Drum length.
- 6.Gross/net weight.

