

Fiber Optic GYFXTY

COMCAST GROUP



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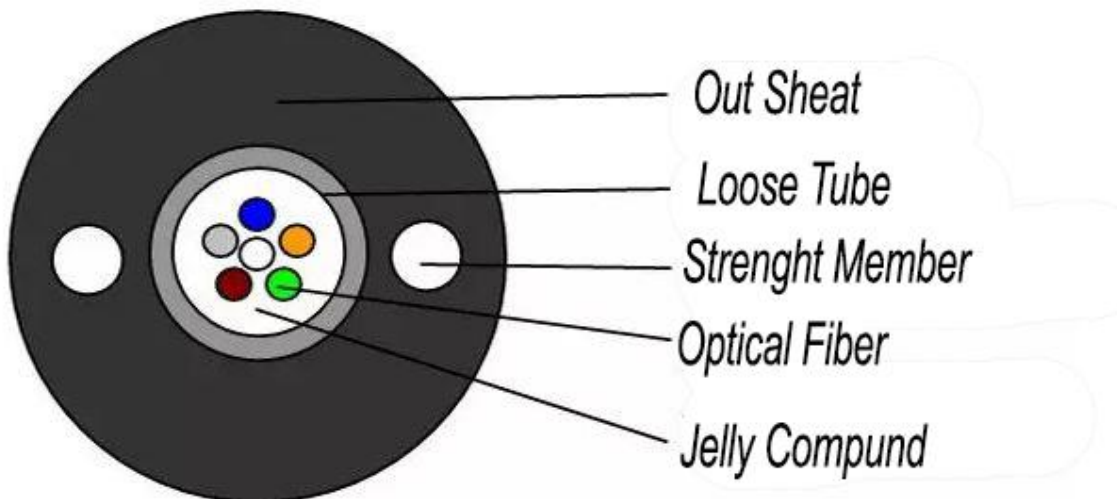
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Description

Loose tube, which is made of high modulus plastic materials and filled with filling compound. Two parallel FRP are placed at both sides of the cable core while PE sheath is extruded over it.

Features

- Non-metal strength member.
- Filler protect loose tuber fiber.
- Non-metal strength has an excellent anti-electromagnet ability.



Technical Data

No. of fibers		6	12	24
Fiber Model		G.652D		
Strength Member	Diameter (± 0.05)	1.5	1.5	1.5
NO.		2		
Loose Tube	Diameter (± 0.06) mm	2.1		2.8
	Diameter (± 0.03) mm	0.35		0.40
	The Max. Core NO./Tube	6	12	24
Out Sheath (Material)	MDPE			
Cable Diameter (± 0.2) mm		7.6		8.9
Cable Weight (± 5) kg/km		48		66
Allowable Tensile Strength	2000N			
Allowable Crush Resistance	1000N/100mm			
Span	75m (No Ice, Wind 30m/s)			
Min. Vending radius	Without Tension	10.0×Cable- ϕ		
	Under Maximum Tension	20.0×Cable- ϕ		
Temperature Range (°C)	Installation	-20~+60		
	Transport & Storage	-40~+70		
	Operation	-40~+70		

Fiber Color

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue +P	Orange +P	Green +P	Brown +P	Gray +P	White +P	Red +P	Black +P	Yellow +P	Violet +P	Pink +P	Aqua +P

*P means Point Mark

The properties of single mode optical fiber (ITU-T Rec. G.652D)

Item	Specification
Fiber Type	Single mode
Fiber Material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
PMDQ (Quadrature average*)	≤ 0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤ 1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

Main mechanical & Environmental Performance Test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain $\leq 0.36\%$ - Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.05 dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1 dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4.1	- Temperature step: +20oC→-40oC→+70oC →+20oC - Time per each step: 12 hrs. - Number of cycles: 2	- Loss change ≤ 0.05 dB/km@1550 nm - No fiber break and no sheath damage.