

Anti-rodent FOC



The cable's core features a non-metallic central core made of Fiber Reinforced Plastic (FRP), which provides structural stability. To maintain a compact and circular cable core, the loose tube and filler rope are precisely helically wound around this central reinforcing core, ensuring the cable's shape and integrity.

Any gaps within the cable core are meticulously filled with a water-blocking filler, effectively shielding the optical fibers from moisture.

Furthermore, a longitudinally applied corrugated plastic-coated steel tape (PSP) enhances the cable's resilience against external forces and environmental conditions. The cable is then enclosed with a polyethylene sheath, adding an extra layer of protection and insulation.

Furthermore, to add an extra layer of defense against rodent damage, an anti-rodent glass yarn is longitudinally wrapped around the cable. This protective element is then expertly extruded into a cable with a durable polyethylene sheath, offering an additional shield against external factors that could compromise the cable's integrity.

Highlights:

- Central strength member (CSM): FRP rod
- Fiber 12-288F ITU-T G652D (A1 & A2 Glass options are available)
- Enclosed in a water-resistant filling within loose tubes, while the loose tubes are SZ-stranded around CSM
- Longitudinal water tightness: dry core with water swellable yarns

Structure Design:

- Rodent-resistant: Glass-roving reinforcement and fiberglass yarn sheathing.
- Robust Design: Non-metallic strength members and layered structure ensure excellent mechanical and temperature properties.
- Effective Waterproofing: Cable core is loaded with water-blocking ointment for superior waterproofing.
- Minimal Maintenance: Non-metallic construction minimizes maintenance

Specification:

Fiber Count		12	24	48	72	96	144	288
Loose Tube	Counts	2	4	4	6	8	12	24
	Diameter (mm)	1.8	1.8	2.1	2.1	2.1	2.1	2.1
	Thickness (mm)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Material	PBT						
	Water Blocking	Tube filling compound						
Fiber Counts per tube		6	6	12	12	12	12	12
Central Strength Member	Material	FRP						
	Size (mm)	1.4	1.4	1.6	2.2	2.1	2.1	2.1
Anti-rodent yarn	Material	Anti-rodent glass yarn						
Outer Jacket	Material	FR Flame-Retardant HDPE,black						
	Nominal Thickness (mm)	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Overall diameter(nom.)(mm)(±0.2)		9.6	9.6	10.4	10.9	11.9	14.9	17.1
Temperature Range	Operation	-40°C~+70°C						
	Storage	-40°C~+60°C						
	Installation	-20°C~+60°C						

Optical characteristics:

Attenuation	@1310nm	≤ 0.35 dB/Km
Coefficient	@1550nm	≤ 0.21 dB/Km

Full compliance with the ITU-T G.657.A1 standard

Mechanical Performance:

Minimum bending radius Static 15D and 30D Dynamic
(D is the cable diameter in mm)

Color Code:

The individual fibers and loose tubes comply with the TIA/EIA-598-A Standard.