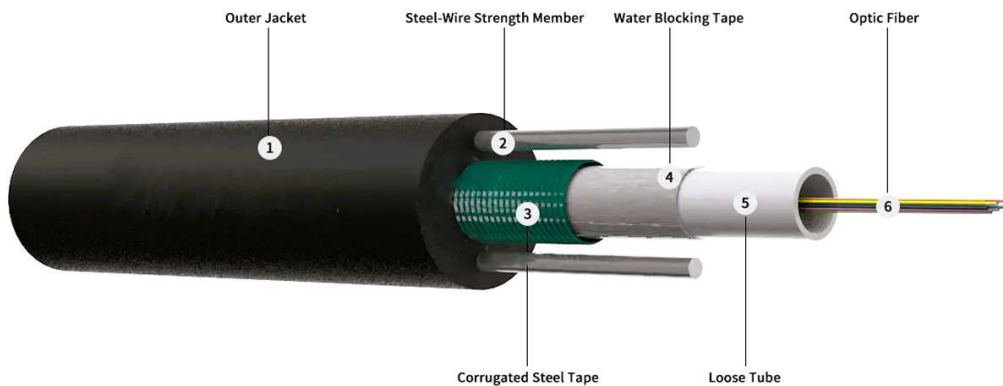


Outdoor Armored Central Loose Tube Fiber Optic Cables



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Features and Benefits

Applications:

- Suitable for Outdoor, Direct-Burial, Duct, Aerial and Riser installations..
- Telecommunication Networks and FTTH Deployments.
- Suitable for Risers, vertical shafts or conduits within a building that house essential services and systems.
- Military & Defense Communication Systems.
- Oil & Gas Pipeline Monitoring.
- Rural & Remote Area Broadband Deployment.

Key Features:

Central Loose Tube Core: Contains 2–24 fibers housed in a gel-filled or dry water-blocking buffer tube.

Armored Protection: Dual-layer defense with steel wire on both sides and corrugated steel tape delivers robust resistance against mechanical stress and rodent intrusion, ensuring long-term durability in harsh environments.

Moisture Barrier System: Equipped with water-blocking gel or dry water-swellable tapes, ensuring long-term moisture resistance and maintaining fiber integrity in wet or flood-prone areas.

Physical Specifications

Structure:

Core: Central Loose tube design (02-12 fibers)

Fiber Type: Single-mode (G.652.D) or multimode (OM3/OM4/OM5)

Loose Tubes: PBT outer Dia. 3.0mm , gel-filled (2~48 fibers/tube).

Water Resistance: Gel-filled or dry core (water-blocking tape)

Strength Member: Two Side steel wire or FRP (fiber-reinforced plastic)

Aarmor: Corrugated steel tape (CST) for crush resistance

Outer Sheath: UV-resistant PE (Polyethylene).

Mechanical & Environmental Specs:

Tensile Strength: (Long-term ≥ 1000 N /Short-term: ≥ 2500 N)

Crush Resistance: ≥ 2500 N/10cm

Bending Radius (Static/Dynamic): $20 \times / 10 \times$ cable diameter

Operating Temperature: -20°C to $+70^{\circ}\text{C}$

Water Resistance: Passes IEC 60794-1-F5B (longitudinal blocking)

Impact Resistance : ≥ 4 N·m (IEC 60794-1-2)

Standard Compliances

- IEC 60794-1-2 (Optical fiber cable mechanical & environmental tests).
- ITU-T G.652.D (Single-mode fiber standard).
- RoHS

Ordering Information

No. of Cores	Multi Mode	Multi Mode	Multi Mode	Single Mode	Outer Jacket	Overall Dia. (mm)	Packaging
	ClearCurve® OM3	ClearCurve® OM4	ClearCurve® OM5	SMF-28® Ultra ITU-T G.652.D			
02	CS-FOSODM3-02	CS-FOSODM4-02	CS-FOSODM5-02	CS-FOSOD52-02	PE	10.2 ±	2000M - 4000M/Reel
04	CS-FOSODM3-04	CS-FOSODM4-04	CS-FOSODM5-04	CS-FOSOD52-04	PE	10.2 ±	2000M - 4000M/Reel
06	CS-FOSODM3-06	CS-FOSODM4-06	CS-FOSODM5-06	CS-FOSOD52-06	PE	10.2 ±	2000M - 4000M/Reel
08	CS-FOSODM3-08	CS-FOSODM4-08	CS-FOSODM5-08	CS-FOSOD52-08	PE	10.2 ±	2000M - 4000M/Reel
12	CS-FOSODM3-12	CS-FOSODM4-12	CS-FOSODM5-12	CS-FOSOD52-12	PE	10.2 ±	2000M - 4000M/Reel