



LOOSE TUBE SELF SUPPORTING ARIAL FIBER OM4

109-144XX

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Overview

- Category: OM4
- Ideal for OSP backbones, offer reliable transmission in diverse conditions, includes water-blocking gel, strength members, and armor to ensure durability and performance.

Industry Standard

- ISO/IEC 11801, ANSI/TIA-568-C.3
- EC60794-1, Bellecore GR-20-Core
- CENELEC EN 50173
- ITU-T G651

Testing Compliance

- IEC 60794-1 E1, IEC 60794-1-E3, IEC 60794-1-E4
- IEC 60794-1-E7, IEC 60794-1-F1, IEC 60332-3C

Applications

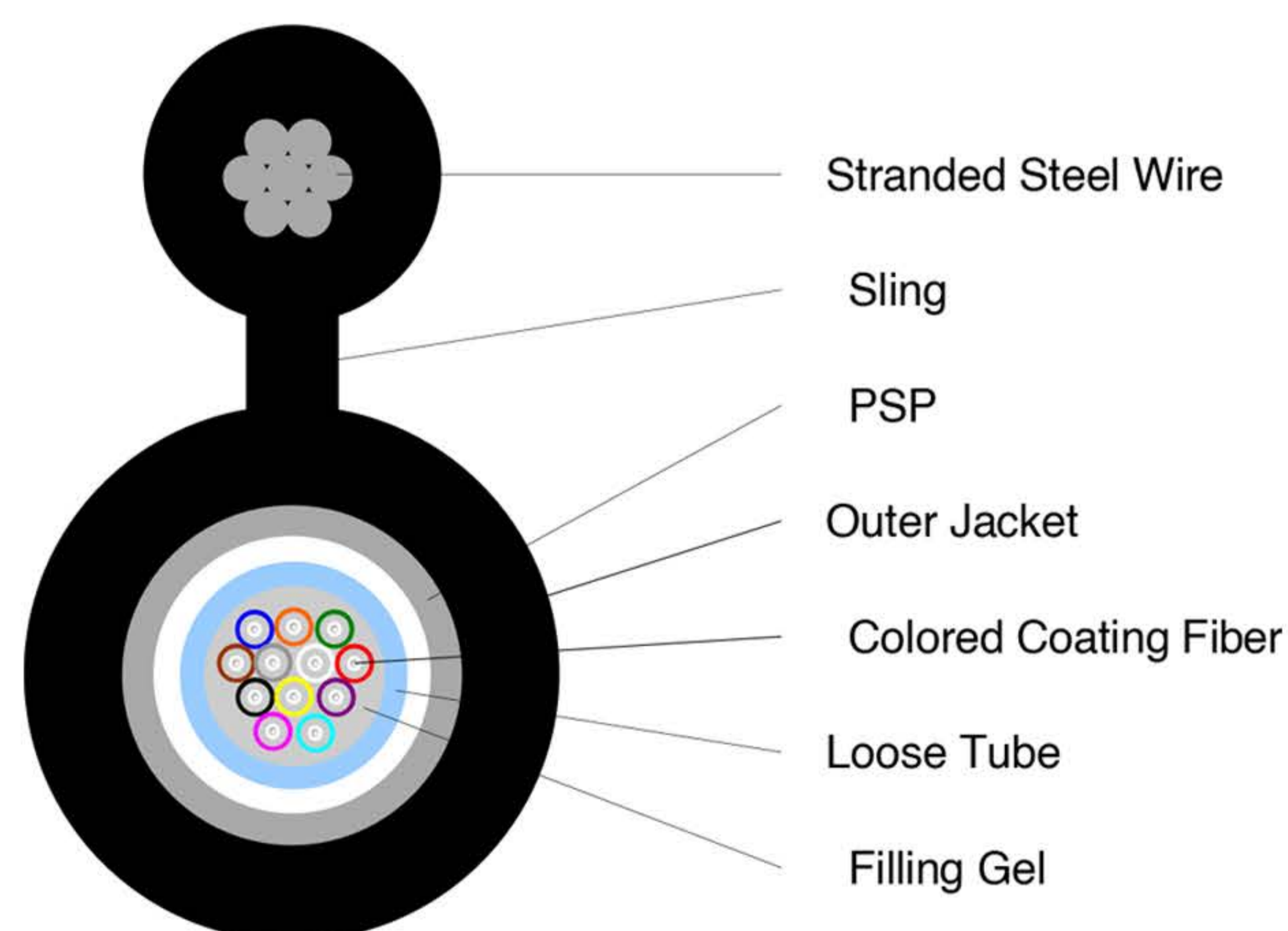
- Lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Ordering Information

Part Number	Description
109-14406	6C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM4
109-14408	8C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM4
109-14412	12C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM4

General Information

- Fiber Count: 2 - 12
- Colored Coating Fiber Dimension: 250µm±15µm,
- Loose Tube Dimension: 2.3mm±0.05mm
- Loose Tube Material: PBT
- Loose Tube Color: Natural
- Colored Coating Fiber Color:
 1. Blue
 2. Orange
 3. Green
 4. Brown
 5. Grey
 6. Natural
 7. Red
 8. Black
 9. Yellow
 10. Purple
 11. Pink
 12. Aqua
- Strength Member Material: Stranded Steel Wire
- Strength Member Dimension: 7mm x 1.2mm
- Outer Jacket Dimension: 5.6mm x 9.2mm x 16.8mm
- Outer Jacket Material: PE
- Outer Jacket Color: Black



V3/2609/25

Geometric Parameters

- Core Diameter: $50.0 \pm 2.5 \mu\text{m}$
- Cladding Diameter: $125.0 \pm 1.0 \mu\text{m}$
- Cladding Non-Circularity: ≤ 1.0
- Core-Cladding Concentricity Error: ≤ 1.0
- Coating Diameter: $245 \pm 5 \mu\text{m}$
- Coating Non-Circularity: ≤ 6.0
- Cladding-Coating Concentricity Error: ≤ 12.0

Optical Performance Parameters

- Bandwidth (min) 850nm: 3500 MHz
- Bandwidth (min) 1300nm: 500 MHz
- Attenuation (max.) 850nm: $\leq 3.0 \text{ dB/km}$
- Attenuation (max.) 1300nm: $\leq 1.0 \text{ dB/km}$

Mechanical and Environmental Characteristics

Items	Unite	Specification
Tension (Long Term)	N	1000
Tension (Short Term)	N	3000
Crush (Long Term)	N/10cm	400
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-40~+70
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70

