



# LOOSE TUBE SELF SUPPORTING ARIAL FIBER OM3

109-143XX

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## Overview

- Category: OM3
- 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

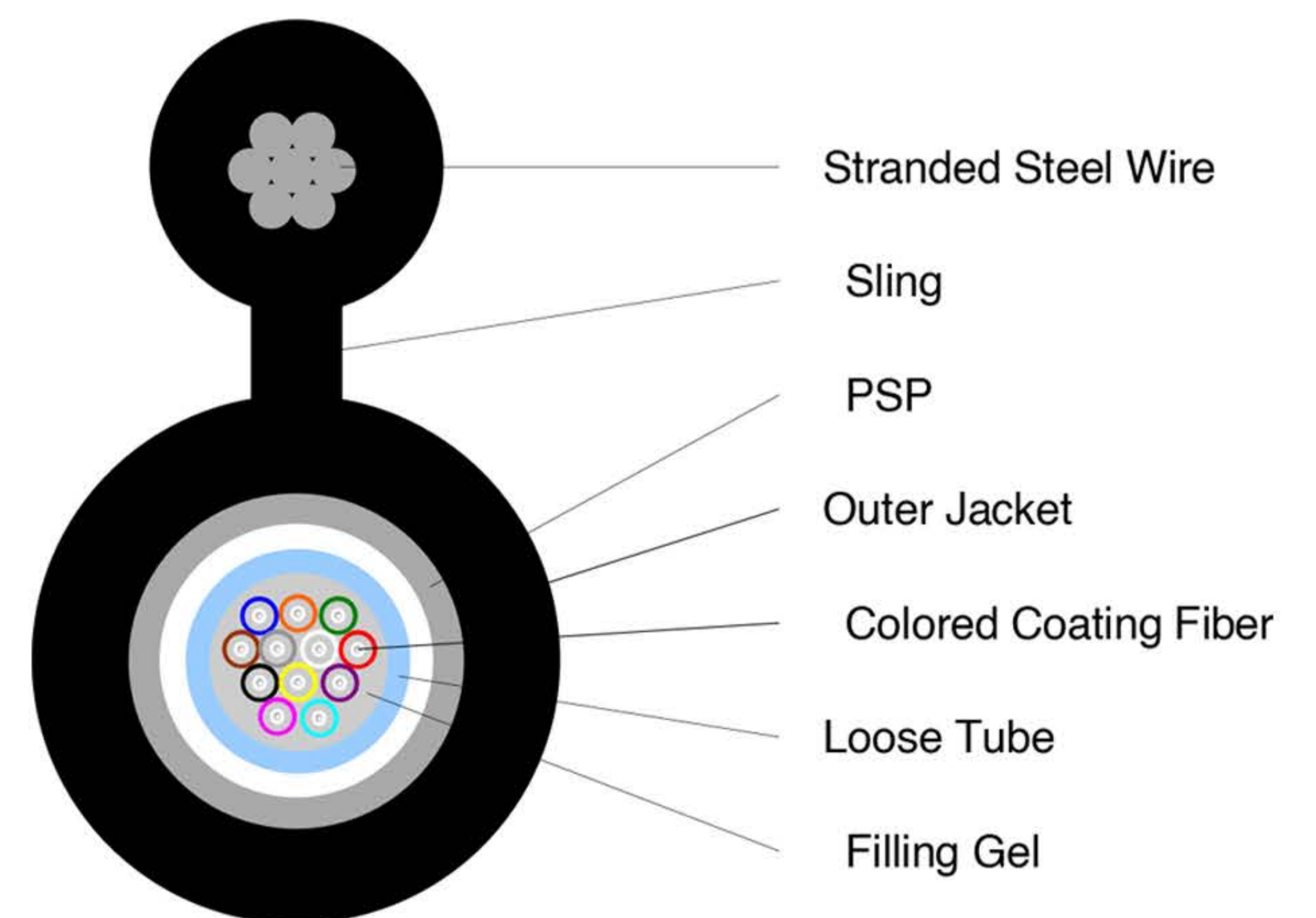
- Lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

## Ordering Information

Part Number	Description
109-14306	6C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM3
109-14308	8C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM3
109-14312	12C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING ARIAL TYPE 50/125MM OM3

## General Information

- Fiber Count: 2 - 12
- Colored Coating Fiber Dimension: 250µm±15µm,
- Loose Tube Dimension: 2.2mm±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



V3/1308/25

### 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:  $\leq 1.0$
- Core-Cladding Concentricity Error:  $\leq 1.0$
- Coating Diameter:  $245 \pm 5 \mu\text{m}$
- Coating Non-Circularity:  $\leq 6.0$
- Cladding-Coating Concentricity Error:  $\leq 12.0$

### Optical Performance Parameters

- Bandwidth (min) 850nm: 1500 MHz
- Bandwidth (min) 1300nm: 500 MHz
- Attenuation (max.) 850nm:  $\leq 3.3 \text{ dB/km}$
- Attenuation (max.) 1300nm:  $\leq 1.2 \text{ dB/km}$

### Mechanical and Environmental Characteristics

Items	Unite	Specification
Tension (Long Term)	N	1000
Tension (Short Term)	N	3000
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	2000
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

HEADQUARTERS



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