



# LOOSE TUBE SELF SUPPORTING AERIAL FIBER OS2

109-241XX

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## Overview

- Category: OS2
- 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 11801ANSI/TIA-568-2.D
- EC60794-1, Bellecore GR-20-Core
- CENELECEN50173

## Applications

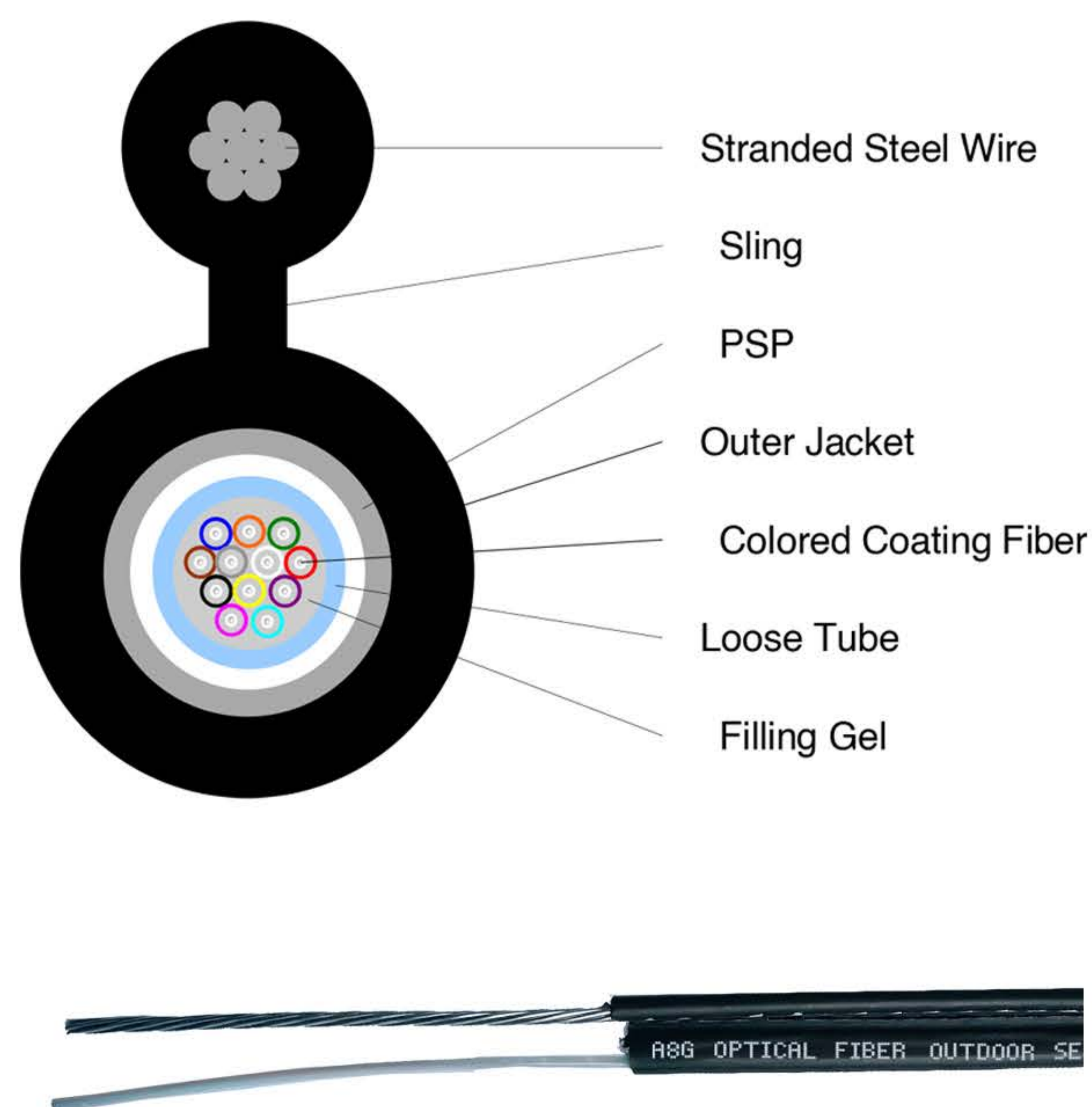
- Lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

## Ordering Information

Part Number	Description
109-24106	6C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 9/125 OS2
109-24108	8C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 9/125 OS2
109-24112	12C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 9/125 OS2

## General Information

- Fiber Count: 2 - 12
- Colored Coating Fiber Dimension: 250µm±15µm,
- Loose Tube Dimension: 2.0mm±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: 3.0 mm
- Outer Jacket Dimension: 5.0±0.2mm /8.0±0.3mm
- Outer Jacket Material: PE
- Outer Jacket Color: Black



### Geometric Parameters

- Core Diameter:  $9.2\pm 0.4\mu\text{m}$
- Cladding Diameter:  $124.8\pm 0.7$
- Cladding Non-Circularity:  $\leq 0.7$
- Core-Cladding Concentricity Error:  $\leq 0.5$
- Coating Diameter:  $245\pm 5\mu\text{m}$
- Coating Non-Circularity:  $\leq 6.0$
- Cladding-Coating Concentricity Error:  $\leq 12.0$

### Optical Performance Parameters

- Polarization mode dispersion(PMD):  $\leq 0.2\text{ps/km}^{1/2}$
- Cable Cut-off Wave-length:  $\lambda_{cc}\leq 1260$
- Attenuation (max.) 1310nm:  $\leq 0.36\text{ dB/km}$
- Attenuation (max.) 1550nm:  $\leq 1.0\text{ dB/km}$

### Mechanical and Environmental Characteristics

Items	Unite	Specification
Tension (Long Term)	N	1000
Tension (Short Term)	N	3000
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70

HEADQUARTERS



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