



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/IEC11801
- CENELEC EN 50173
- ANSI/TIA 568-2.D

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

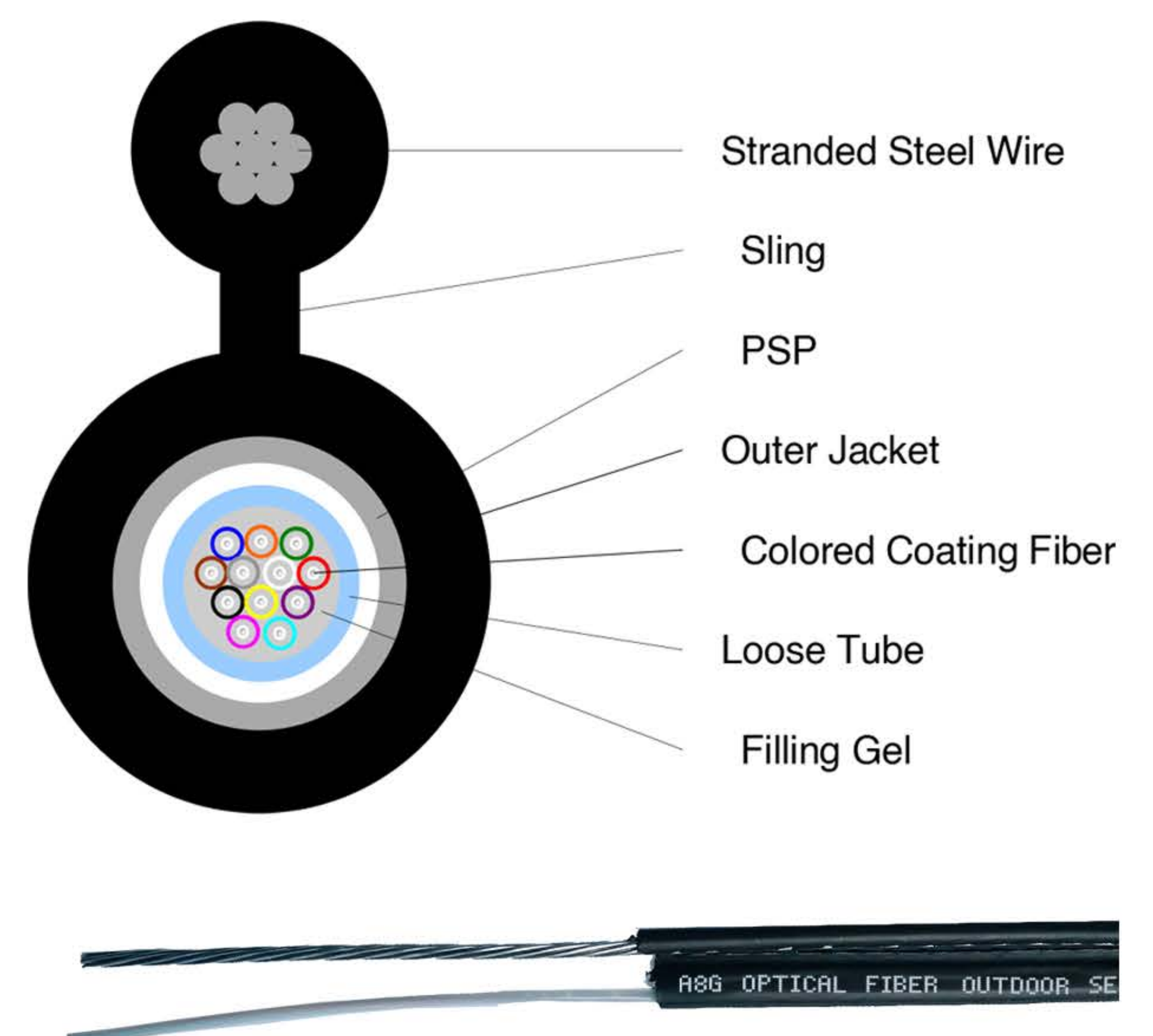
- Lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Ordering Information

Part Number	Description
109-24102	2C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 9/125 OS2
109-24104	4C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 9/125 OS2
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: $250\mu\text{m}\pm 15\mu\text{m}$,
- Loose Tube Dimension: $2.2\text{mm}\pm 0.05\text{mm}$
- 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: $7\text{mm} \times 1.2\text{mm}$
- Outer Jacket Dimension: $5.6\text{mm} \times 9.2\text{mm} \times 16.8\text{mm}$
- Outer Jacket Material: PE
- Outer Jacket Color: Black



V3/1308/25

Geometric Parameters

- Core Diameter: 9.2±0.4μm (1310nm), 10.4±0.5μm (1550nm),
- Cladding Diameter: 124.8±0.7
- Cladding Non-Circularity: ≤0.7
- Core-Cladding Concentricity Error: ≤0.5
- Coating Diameter: 245±5μm
- Coating Non-Circularity: ≤6.0%
- Cladding-Coating Concentricity Error: ≤12.0

Optical Performance Parameters

- Polarization mode dispersion(PMD): ≤0.2ps/km1/2
- Cable Cut-off Wave-length: λ_{cc}≤1260
- Attenuation (max.) 1310nm: ≤0.36 dB/km
- Attenuation (max.) 1550nm: ≤0.22 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	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70