



LOOSE TUBE SELF SUPPORTING ARIAL FIBER OM3

109-143XX

Phone
+33 75 864 2169

Email
info@angnetworks.com

Log 202, 5rue Albert Thomas, 38100
Grenoble, France.



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/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

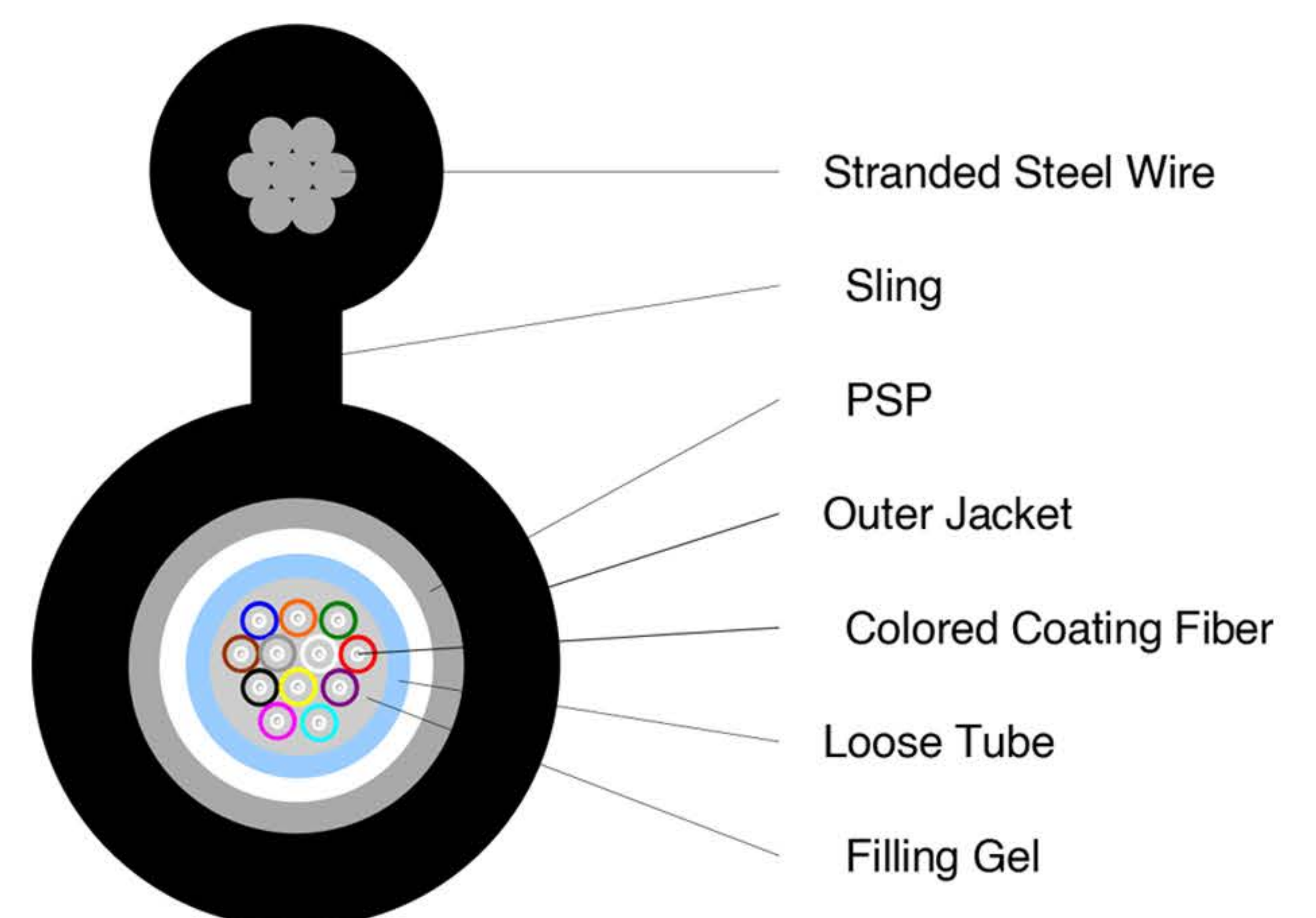
- Lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

Ordering Information

Part Number	Description
109-14306	6C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 50/125MM OM3
109-14308	8C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL TYPE 50/125MM OM3
109-14312	12C OUT-DOOR ARMOR FIBER CABLE LOOSE TUBE SELF SUPPORTING AERIAL 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±2.5µm
- Cladding Diameter: 125.0±1.0µm
- Cladding Non-Circularity: ≤1.0
- Core-Cladding Concentricity Error: ≤1.0
- Coating Diameter: 245±5µm
- Coating Non-Circularity: ≤6.0
- Cladding-Coating Concentricity Error: ≤12.0

Optical Performance Parameters

- Bandwidth (min) 850nm: 1500 MHz
- Bandwidth (min) 1300nm: 500 MHz
- Attenuation (max.) 850nm: ≤3.3 dB/km
- Attenuation (max.) 1300nm: ≤1.2 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

HEADQUARTERS



A&G Technologies CO., Limited,
Log 202, 5rue Albert Thomas, 38100
Grenoble, France.

+33 75 864 2169

REGIONAL OFFICE



A&G Technologies (HK) CO., Limited,
Room 803, Chevalier House, 45-51 Chatham Road
South, Tsim Sha Tsui, Kowloon, Hong Kong.

+852 5420 8788

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info@angnetworks.com



www.angnetworks.com