



OUTDOOR OPTICAL FIBER UNITUBE SINGLE MODE

109-231XX

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Overview

- Category: Single Mode (SM) / OS2
- Description: This optical fiber cable provides high-performance transmission capabilities for various communication applications.

Industry Standard

- ISO/IEC11801
- CENELEC EN 50173
- ANSI/TIA 568-2.D
- ITU-T G.652C, ITU-T G.652.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

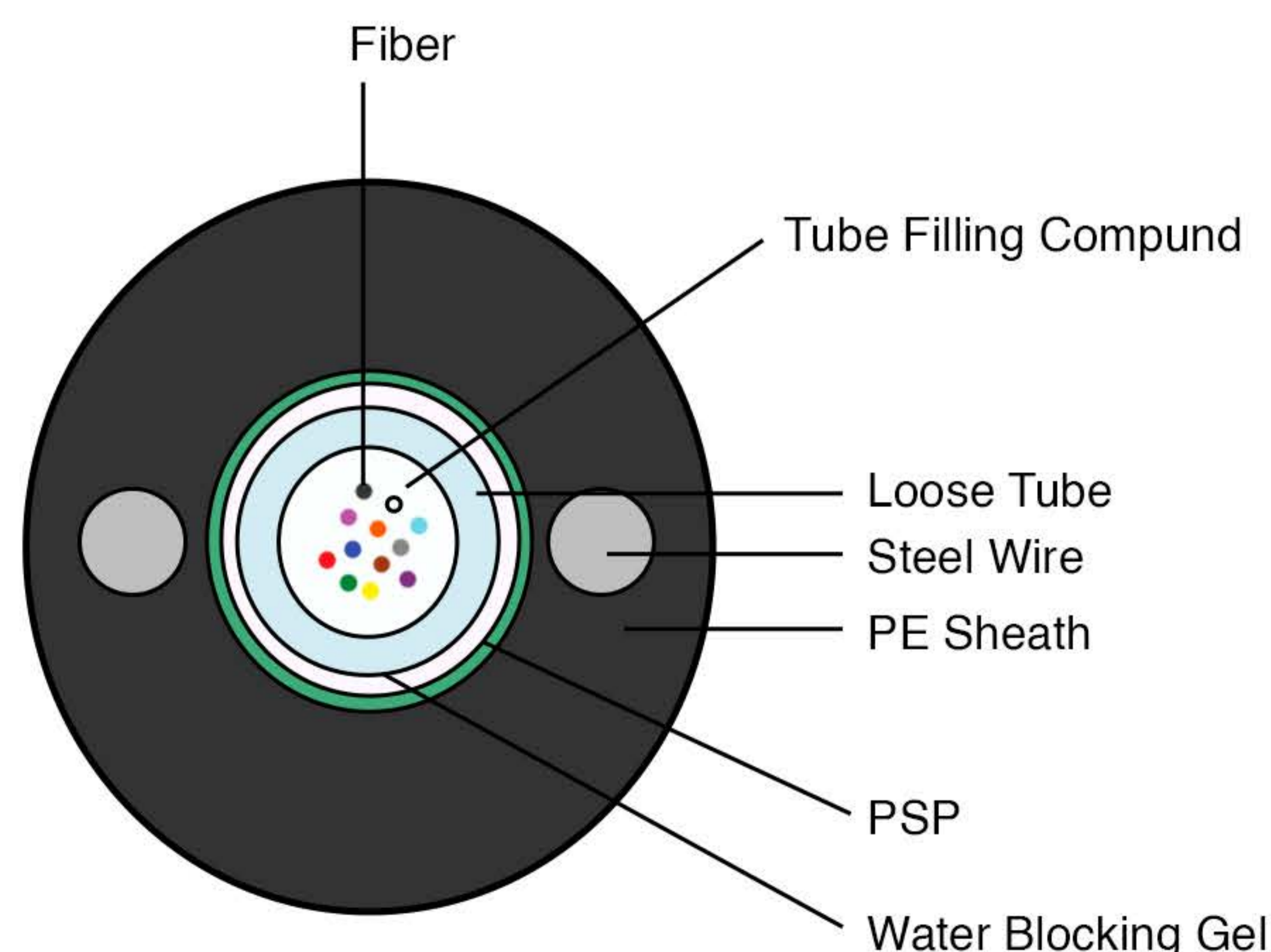
- Telecommunications & Data centers
- Industrial automation & Surveillance systems

Ordering Information

Part Number	Description
109-23102	OUTDOOR OPTICAL FIBER UNITUBE 2C SM
109-23106	OUTDOOR OPTICAL FIBER UNITUBE 6C SM
109-23108	OUTDOOR OPTICAL FIBER UNITUBE 8C SM
109-23112	OUTDOOR OPTICAL FIBER UNITUBE 12C SM
109-23124	OUTDOOR OPTICAL FIBER UNITUBE 24C SM

General Information

- Fiber Count: 2 to 48
- Colored Coating Fiber Dimension: $250\mu\text{m}\pm 15\mu\text{m}$,
- Loose Tube Dimension: $2.0\text{mm}\pm 0.05\text{mm}$
- 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 Diameter: 1.2mm
- Outer Jacket Dimension : $9.0\text{mm}\pm 0.3\text{mm}$
- Outer Jacket Material: PE
- Outer Jacket Color: Black
- Jacket Properties: Anti-corrosion, Anti-water, Anti-ultraviolet Radiation, Flame retardant, Environmentally harmless, etc.



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Geometric Parameters

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

Optical Performance Parameters

- Attenuation (max.): ≤0.36 dB/km (1310nm),
- Attenuation (max.): ≤0.22 dB/km (1550nm)
- Cable Cutoff Wavelength: ≤1260 nm
- Chromatic Dispersion (ps/nm.km) 1310nm ≤ 3.5
1550nm ≤ 18, 1625nm ≤ 22
- Attenuation vs Bending: 30mm radius,
100 turns ≤ 0.1dB,1625nm

Mechanical and Environmental Characteristics

Items	Unit	Specification
Tension (Long Term)	N	800
Tension (Short Term)	N	1600
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

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HEADQUARTERS



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