



OUTDOOR OPTICAL FIBER 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

- IEC60332-3C, RoHS

Testing Compliance

- IEC 6794-1 E1, IEC 6794-1-E3, EC 6794-1-E4
- EC 6794-1-E7, EC 6794-1-F1

Applications

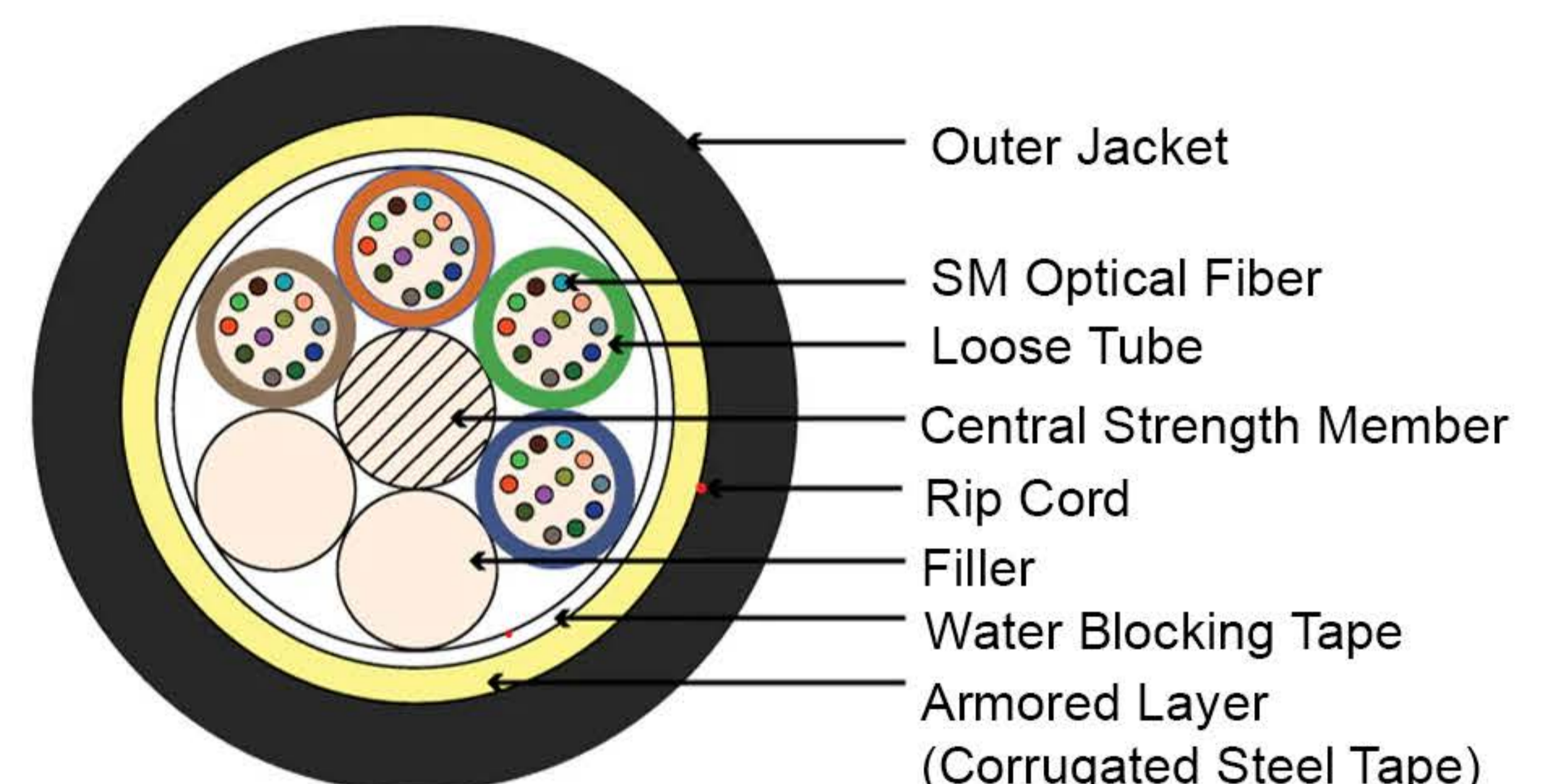
- Telecommunications & Data centers
- Industrial automation & Surveillance systems

Ordering Information

Part Number	Description
109-23106	OUTDOOR OPTICAL FIBER 6C SINGLE MODE
109-23108	OUTDOOR OPTICAL FIBER 8C SINGLE MODE
109-23112	OUTDOOR OPTICAL FIBER 12C SINGLE MODE
109-23124	OUTDOOR OPTICAL FIBER 24C SINGLE MODE

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.



PRODUCT TECHNICAL SPECIFICATION | OUTDOOR OPTICAL FIBER SINGLE MODE

Geometric Parameters

- Core Diameter: $9.2\mu\text{m}\pm 0.4$ (1310nm), $10.4\mu\text{m}\pm 0.5$ (1550nm)
- Cladding Diameter: $124.8\mu\text{m}\pm 0.7$
- Cladding Non-Circularity: $\leq 0.7\%$
- Core-Cladding Concentricity Error: $\leq 0.5\mu\text{m}$
- Coating Diameter: $245\mu\text{m}\pm 5$
- Coating Non-Circularity: $\leq 6.0\%$
- Cladding-Coating Concentricity Error: $\leq 12.0\mu\text{m}$

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 ≤ 0.1 dB, 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	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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