

INDOOR OPTICAL FIBER SINGLE MODE

109-121XX

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Overview

- Category: Single Mode (SM)
- Description: The fiber optic cable features a 9/125 μm water-blocked loose tube single-mode fiber with a polyethylene sheath and nylon jacket.

Industry Standard

- ISO/IEC11801
- ANSI/TIA 568-2.D
- CENELEC EN 50173
- IEC60794-1
- IEC60332-3C

Testing Compliance

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

Applications

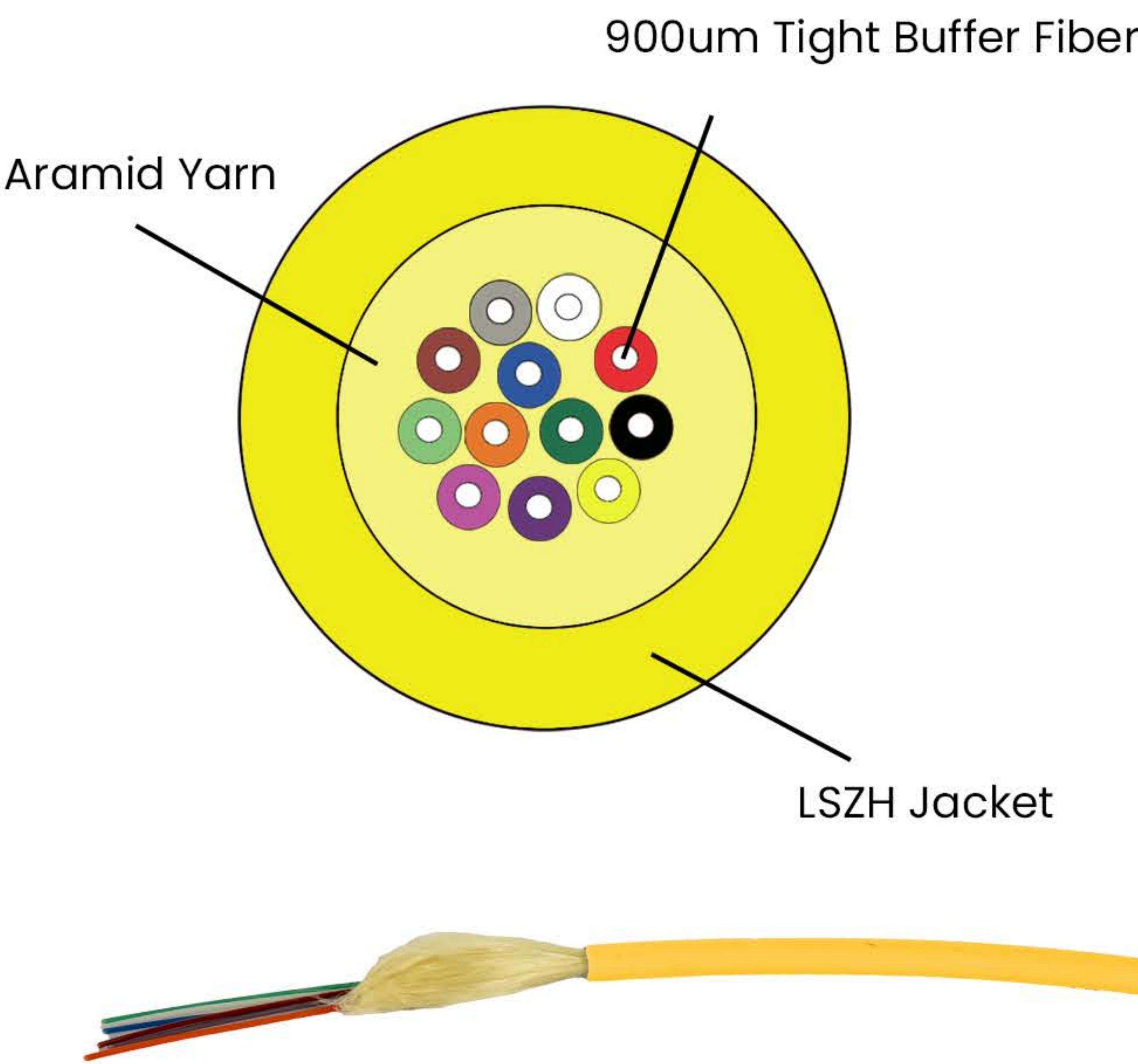
- Telecommunications
- Data communication networks
- SAN, data center, and indoor general-purpose cable distribution.

Ordering Information

Part Number	Description
109-12102	INDOOR OPTICAL FIBER 2C SINGLE MODE
109-12106	INDOOR OPTICAL FIBER 6C SINGLE MODE
109-12112	INDOOR OPTICAL FIBER 12C SINGLE MODE

General Information

- Fiber Count: 2 to 12
- Tight-buffered Fiber Dimension: $850\mu\text{m}\pm50\mu\text{m}$,
- Tight-buffered Fiber Material: LSZH
- Tight-buffered Fiber Color:
 1. Blue
 2. Orange
 3. Green
 4. Brown
 5. Grey
 6. White
 7. Red
 8. Black
 9. Yellow
 10. Purple
 11. Pink
 12. Aqua
- Strength Member: Aramid Yarn
- Outer Jacket Dimension: $8.5\text{mm}\pm0.3\text{mm}$,
- Outer Jacket Material: LSZH
- Outer Jacket Color: Yellow
- Jacket Properties: Anti-corrosion, Anti-water, Anti-ultraviolet Radiation, Flame retardant, Environmentally harmless, etc.



Geometric Parameters

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

Optical Performance Parameters

- Bandwidth 1310nm: 100 GHz
- Bandwidth 1550nm: 100 GHz
- Attenuation 1310nm: $\leq 0.4 \text{ dB/km}$
- Attenuation 1550nm: $\leq 0.3 \text{ dB/km}$

Mechanical and Environmental Characteristics

Fiber	Buffer	Kg/km	Tension (N) (Long/Short)	Diameter(mm)	Central FRP(mm)
2	2	15	200/400	4.00	/
4	4	18	200/400	4.90	/
6	6	23	300/600	5.20	/
8	8	27	300/600	5.50	/
12	12	36	300/600	6.20	/
16	16	55	300/600	7.30	/
24	24	65	300/600	8.50	/
32	32	70	300/600	9.50	/
36	36	74	300/600	9.50	/
48	48	110	400/800	10.50	/

Items	Unit	Specification
Tension (Long Term)	N	500
Tension (Short Term)	N	1000
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	-10~+50
Operating Temperature	°C	-20~+60
Storage Temperature	°C	-20~+60