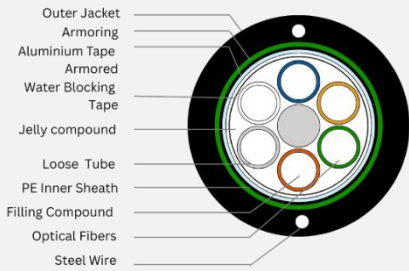


## SCHNELL SINGLEMODE OUTDOOR ARMOURED FIBER OPTIC CABLES

Schnell Single mode Outdoor Armored Fiber Optic Cables are built for long-distance, high-speed communication. Featuring a central jelly-filled loose tube, water-blocking tape, steel wire reinforcements, and corrugated steel armoring under a PE jacket, they ensure superior moisture resistance, tensile strength, and mechanical protection. Ideal for ducts, conduits, and aerial pipeline installations.



### DIAGRAM & CONSTRUCTION

Fiber Type	: Single mode OS1/OS2, (9/125 μm)		Reinforcement	: Two steel strength members
Tube Design	: Central loose tube with water-blocking jelly		Water Protection	: Jelly + water-blocking tape
Fiber Count	: 4, 6, 8, 12 cores (others on request)		Armour	: Corrugated steel tape
Options			Outer Jacket	: HDPE or LSZH
			Material	: Black (standard)
		Outer Jacket Color	: SCHNELL + Fiber Type +	
		Cable Marking	: Core Count + Outdoor Armoured	

### OPTICAL CHARACTERISTICS

Wavelength 1310 nm	: ≤ 0.34 dB/km (OS1), ≤ 0.20 dB/km (OS2)
Wavelength 1550 nm	: ≤ 0.24 dB/km (OS2 typical)
Bandwidth (Min.)	: Optimized for long-distance links
Ethernet Support	: 1G, 10G, 40G, 100G compliant
Standard Compliance	: IEEE 802.3z (Gigabit Ethernet)

### PHYSICAL CHARACTERISTICS

Operating Temperature	: -20 °C to +60 °C
Storage Temperature	: -40 °C to +60 °C
Water Resistance	: Water-blocked design (jelly + tape)
Jacket UV Resistance	: Yes (HDPE rated for outdoor use)
Installation Environment	: Ducts, conduits, aerial pipelines

### KEY FEATURES

- Central loose tube with jelly and water-blocking tape
- Corrugated steel armoring for crush and rodent protection
- Dual steel strength wires for enhanced tensile strength
- Suitable for long-distance communication and outdoor installs

### KEY APPLICATIONS

- Backbone fiber networks in outdoor environments
- Long-distance duct or aerial fiber installations
- FTTH, FTTB, and service drop connections
- Secure communication links in industrial zones

### REACTION TO FIRE

Jacket Material Options	: HDPE (Standard), LSZH (Optional)
Flame Retardant (LSZH)	: IEC 60332-1 compliant
Smoke Emission (LSZH)	: IEC 61034 compliant
Halogen Content (LSZH)	: IEC 60754-1 and 60754-2 compliant

### STANDARDS

- OS1/OS2 (9/125 μm)
- Standard Compliance: IEEE 802.3z, TIA/EIA 568C.3
- RoHS Directive: Compliant with 2002/95/EC
- IEC Standards: IEC 60793 & 60794 series
- Environmental: UV-resistant, water-blocked, outdoor-rated

**ORDERING INFORMATION**

Part Number	Fiber Count	Outer Diameter	Loose Tube Diameter	Cable Weight (kg/km)	Bend Radius	
		(mm)	(mm)		Short (mm)	Long (mm)
SCZ-70104CXXXOT	4	8.3	2.1	90	20D	10D
SCZ-70106CXXXOT	6	8.3	2.1	90	20D	10D
SCZ-70108CXXXOT	8	8.3	2.1	90	20D	10D
SCZ-701012CXXXOT	12	8.3	2.1	100	20D	10D

**PART NUMBER**

Part Number	Description
SCZ-70104COS1OT	4 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-70106COS1OT	6 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-70108COS1OT	8 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701012COS1OT	12 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701024COS1OT	24 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701048COS1OT	48 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701096COS1OT	96 CORE OS1 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-70104COS2OT	4 CORE OS2 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-70106COS2OT	6 CORE OS2 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-70108COS2OT	8 CORE OS2 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701012COS2OT	12 CORE OS2 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
SCZ-701024COS2OT	24 CORE OS2 OUTDOOR ARMoured LOOSE TUBE FIBRE CABLE
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