

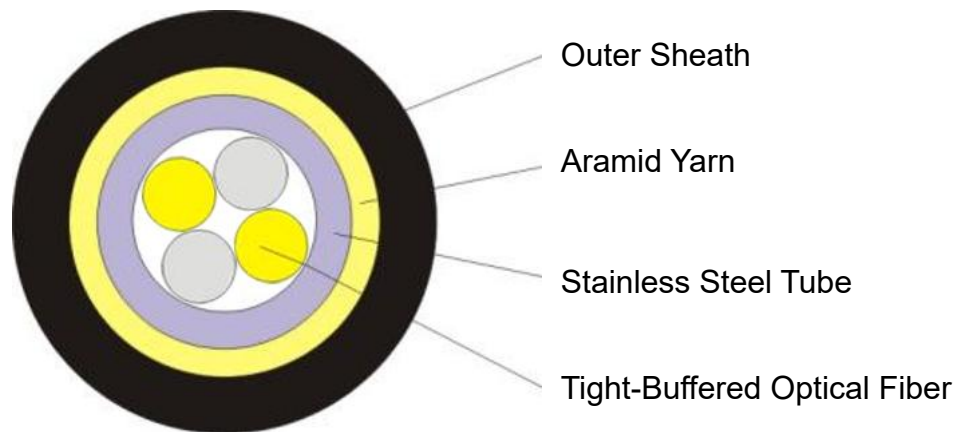
Indoor & Outdoor Armored Field Optical Cable

Ø4.0mm 4-Core Specification

Introduction

Metal armored field optical cable is protected by a tiny stainless steel tube outside the optical fiber. Compared with conventional optical cables, this cable features high compressive strength, high tensile strength, rodent resistance, small diameter, flexibility and easy bending, and can be used in various harsh environments. It is compatible with standard 3.0mm optical fiber connectors. The armored optical fiber patch cord made from it can be used as easily as an electric wire.

Product Cross-Section Structure



Specifications

- ◆ Structure: $4 \times 0.6\text{mm}$ tight-buffered optical fiber + stainless steel tube + aramid yarn + TPU outer sheath
- ◆ Tight-buffered optical fiber: $4 \times 0.6\text{mm}$ PVC tight-buffered fiber, single-mode and multi-mode optional
- ◆ Single-mode: G652D, G657A
- ◆ Multi-mode: 62.5/125, 50/125 (OM3, OM4)
- ◆ Stainless Steel Tube:
 - Material: SUS204
 - Outer diameter: $1.80 \pm 0.10\text{mm}$
 - Inner diameter: $1.25 \pm 0.10\text{mm}$
 - Steel strip width: $0.95 \pm 0.05\text{mm}$
 - Gap: $0.15 \pm 0.05\text{mm}$
- ◆ Aramid Yarn
 - Specification: 1000DEN imported aramid
 - Quantity: 10 strands outside the steel tube
- ◆ Outer Sheath
 - Material: Indoor & outdoor high wear-resistant halogenated flame-retardant / non-flame-retardant TPU (Thermoplastic Polyurethane)
 - Standard color: Black, customizable as customer request
 - Wall thickness: $1.0 \pm 0.1\text{mm}$
 - Outer diameter: $4.0 \pm 0.2\text{mm}$

Cable Parameters

	Single-mode		Multi-mode	
Cable weight	Approx. 22kg/km		Approx. 22kg/km	
Operating temperature	-40°C ~ +80°C		-40°C ~ +80°C	
Storage temperature	-40°C ~ +80°C		-40°C ~ +80°C	
Tensile strength (long-term)	≥600N		≥600N	
Tensile strength (short-term)	≥1000N		≥1000N	
Compressive strength	≥3000N/100mm		≥3000N/100mm	
Bend radius	≥30D		≥30D	
Typical attenuation	1310nm	0.4dB/km	850nm	3.0dB/km
	1550nm	0.3dB/km	1300nm	1.0dB/km

