Industrial Armored Fiber Optic Pigtail Datasheet

IDEAL FOR BOTH INDOOR AND OUTDOOR APPLICATIONS

Designed for industrial communications, mining environment, geological exploration communications, broadcast television and emergency optical fiber communications etc.



Overview

The Industrial armored cable features strong tensile strength, strong pressure resistance and good flexibility characteristics. Besides, it is bending resistant, oil resistant and wear resistan, wthich has 3-5 years of service life under long-term outdoor exposure or rain.

Therefore, the Industrial armored cable is ideal for indoor and outdoor applications, such as connecting the networks of two buildings through the use of an underground conduit or direct buried.

Standards Compliance

- ISO9001 Compliant
- RoHS Compliant

Benefits

- TPU Jacket Features Water, Abrasion, Low-temperature Resistance
- Helical Steel Armor Provides Additional Crush and Rodent Protection
- Available with LC, SC, FC, ST, LSH Connectors
- Customized Simplex and 2-24 Fibers Pigtails Are Serialized
- For Harsh Environments Including Building Sites, Industrial Networks, Roadworks
- Operating & Storage Temperature Up to -40~80°C
- Max. 600N Tensile Strength and Max. 3000N Crush Strength

Technical Specification

Physical Characteristics	Simplex	Multifiber
Fiber Count	Simplex	2/4/6/8/12/24 Fibers
Connector Type	LC/SC/FC/ST/LSH	
Polish Type	UPC/APC	
Tensile Resistance	Long Term: 200N; Short Term: 600N	
Crush Resistance	Long Term: 1000 (N/100mm); Short Term: 3000 (N/100mm)	
Minimum Bend Radius	Static: 10D (mm); Dynamic: 20D (mm)	
Cable Diameter (mm)	3.0	
Minimum Bend Radius (mm)	10/5D (Dynamic/Static)	

Cable Diameter	LC/SC/FC/ST/LSH Connectors
Trunk Diameter	1 Fiber: 3.0mm 2 Fibers: 4.0mm 4 Fibers: 4.5mm 6/8 Fibers: 5.0mm 12 Fibers: 6.0mm 24 Fibers: 7.0mm
Breakout Diameter	1~4 Fibers: 3.0mm 6~24 Fibers: 2.5mm

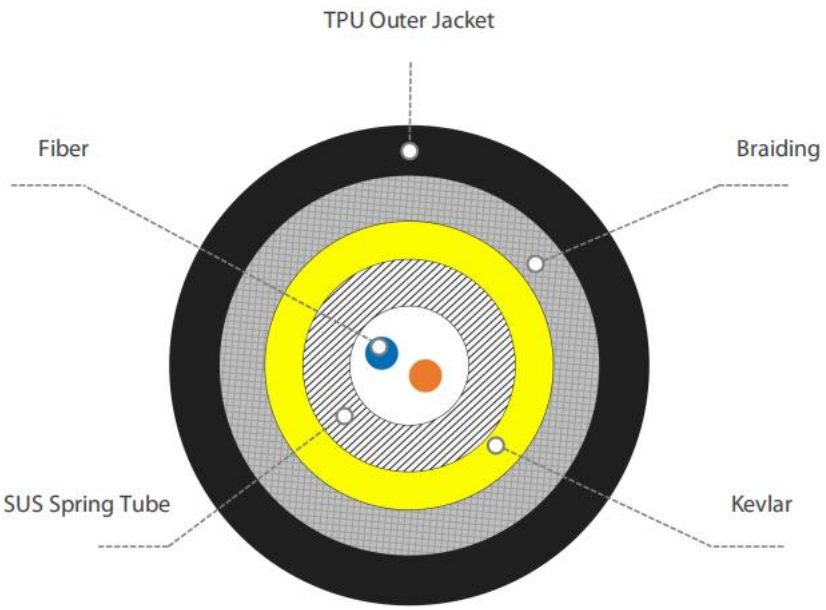
Mechanical Characteristics	Description
Fiber Type	OS2
Fiber Count	1-24 Fibers
Cable Jacket	TPU (Thermoplastic Polyurethane)
Jacket Color	Black
Fiber Grade	G.657.A2

Optical Characteristics	Description
Connector Insertion Loss	LC/SC/ST/FC/LSH≤0.3dB
Connector Return Loss	UPC≥50dB; APC≥60dB
Attenuation at 1310nm	0.36 dB/km
Attenuation at 1550nm	0.22 dB/km
Attenuation at 850nm	3.0 dB/km
Attenuation at 1300nm	1.0 dB/km

Environmental Characteristics	Description
Operating Temperature	-40 to 80° C
Storage Temperature	-40 to 80° C

Cable Construction

Constructed of SUS spring tube, Kevlar and braiding and TPU outer cable jacket, it is ideal for military tactical field use, commercial applications etc.



Optic Fiber Connectors Introduction

Images	Connector Name	Typical Applications
	LC	High-density connection, SFP and SFP+ transceiver, XFP transceiver
	SC	Datacom and telecom; GPON; EPON; GBIC
	ST	Datacom
	FC	Datacom and telecom, measurement equipment, single-mode laser
	LSH	Telecom, DWDM systems

Hot Products

ID	Description
#181802	Customized Simplex OS2 Single Mode LC/SC/FC/ST/LSH Industrial Armored Fiber Optic Pigtail
#181803	Customized 2-24 Fibers OS2 Single Mode LC/SC/FC/ST/LSH Industrial Armored Fiber Optic Pigtail