Industrial Armored Cables 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.

Industrial Armored Fiber Patch Cables

FS industrial armored fiber optic patch cable is constructed of a tight-buffered fiber, a helical stainless steel armored tube, a stainless steel wire mesh, a layer of kevlar yarn and TPU outer jacket. It features strong tensile strength, strong pressure resistance and good flexibility characteristics. Besides, it is bending resistant, oil resistant and wear resistant. Therefore, it is ideal for both indoor and outdoor applications.

Standards Compliance

- RoHS, ISO 9001 Compliant
- TIA 604 (FOCIS)
- TIA/EIA 492AAAE
- IEC 61754
- IEC 60793-2-10
- IEC 61300-3-35

Features

- LC, SC, ST, FC, MTP®, ODC, YZC, IP67, LSH Connectors Are Available
- High Mechanical Strength, High Bending Performance and Great Tensile Strain Capacity Armored Fiber
- High Abrasion Resistance, Low-temperature Performance, High Shear Strength and High Elasticity TPU Outer Jacket
- OS2, OM4, OM3, OM2, OM1 Are Available

Technical Specification

Physical Characteristics	Description
Connector Type	LC/SC/FC/ST/MTP®/ODC/YZC/IP67/LSH
Polish Type	SMF: UPC-UPC; UPC-APC; APC-APC MMF: UPC-UPC
Tensile Resistance	Duplex：Long Term: 500N; Short Term: 800N Simplex：Long Term: 200N; Short Term: 400N
Crush Resistance	Long Term: 2000 (N/100mm); Short Term: 3000 (N/100mm)
Minimum Bend Radius	Static: 10D (mm); Dynamic: 20D (mm)

Cable Diameter	LC/SC/FC/ST/ODC/YZC/IP67 Connectors	MTP® Connector
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 48 Fibers: 9.5mm	7.0mm
Breakout Diameter	1~4 Fibers: 3.0mm 6~24 Fibers: 2.5mm 48 Fibers: 2.0mm	3.0mm

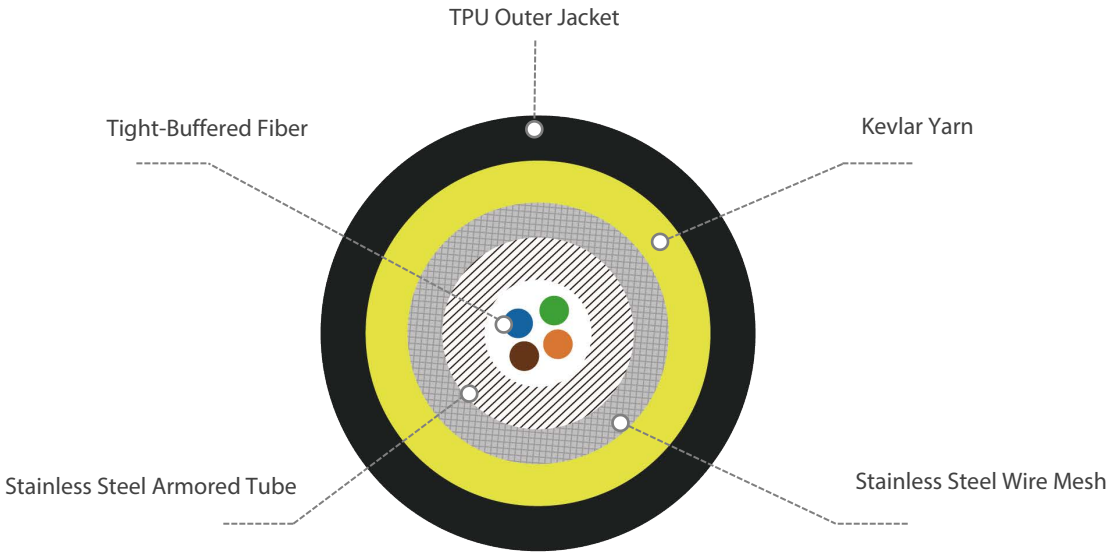
Mechanical Characteristics	Description
Fiber Type	OS2/OM4/OM3/OM2/OM1
Fiber Count	1-48 Fibers
Cable Jacket	TPU (Thermoplastic Polyurethane)
Jacket Color	Black
Fiber Grade	OS2: G.657.A2 OM4/OM3/OM2: Bend Insensitive OM1: G.651

Optical Characteristics	Description
Connector Insertion Loss	LC/SC/ST/FC/LSH≤0.3dB IP67 LC/IP67 SC≤0.5dB MTP®/IP67 MTP®≤0.35dB ODC/YZC≤1.0dB
Connector Return Loss	SMF: UPC≥50dB; APC≥60dB, APC≥65dB (LSH) MMF: ≥20dB
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

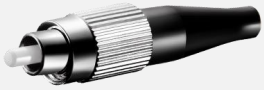
Environmental Characteristics	Description
Operating Temperature	-40 to 80°C (-40 to 176°F)
Storage Temperature	-40 to 80°C (-40 to 176°F)

Cable Construction

Constructed of a tight-buffered fiber, a helical stainless steel armored tube, a stainless steel wire mesh, a layer of kevlar yarn and TPU outer jacket, it is ideal for industrial 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
	MTP®/MPO	High-density datacenter cabling apllications
	ODC	Datacom and telecom, base station, aerospace & defense, FTTA
	YZC	Industrial communication, CCTV system, fiber sensor, railway signal control, oil & mine communication, remote wireless base station
	IP67 LC/SC	Broadcast, commercial, education, medical, maritime, oil and gas, telecoms, transport
	IP67 MTP/MPO	Broadcast, commercial, education, medical, maritime, oil and gas, telecoms, transport

Hot Products

ID	Description
#70220	Customized LC/SC/ST/FC/LSH/MTP®/IP67/ODC/YZC 1-48 Fibers OS2 Single Mode
#71448	Customized LC/SC/ST/FC/MTP®/IP67/ODC/YZC 1-48 Fibers OM4 Multimode
#70402	Customized LC/SC/ST/FC/IP67/ODC/YZC 1-48 Fibers OM3 Multimode
#70221	Customized LC/SC/ST/FC/IP67/ODC/YZC 1-24 Fibers OM1/OM2 Multimode

Matching Products

ID	Description
#63042	IP67 MPO Bulkhead Adapter with Dust Cap
#63043	IP67 MPO In-line Adapter with Dust Cap
#40191	1m (3ft) LC UPC to LC UPC Duplex 2.0mm PVC OS2 Single Mode Fiber Cable
#40180	1m (3ft) LC UPC to LC UPC Duplex 2.0mm PVC OM4 Multimode Fiber Cable
#35488	Fiber Adapter Panel with 12 LC Duplex OS2 Single Mode Adapters
#41998	Fiber Adapter Panel with 12 LC Duplex OM3/OM4 Multimode Adapters
#70361	Upgrading 1U Rack Mount FHD High Density Slide-out Fiber Enclosure
#23069	200~2300 Meter Portable Field Deployable Industrial Fiber Optic Cable Reel