Armored Patch Cable





These multi mode fiber optic patch cables have all of the features of our standard cables but are built with two layers of armored fur-cation tubing, making them both light tight and extremely durable. Each cable consists of an outer layer of plastic-covered stainless steel tubing, plus an inner layer of Kevlar-reinforced tubing.

The connectors are attached with stainless steel sleeves that provide enhanced strain relief and that are engraved with the core size, and wavelength range. The double tubing and steel sleeve construction make these patch cables completely light tight, even when bent. These cables can withstand high crushing pressures, making them suitable for running along floors and other areas where they may be stepped on. The tubing also provides excellent cutting resistance, abrasion resistance, and high tensile strength.

Each patch cable includes a set of rubber protective caps that shield the connector ends from dust and other hazards. All patch cables on this page are sold from stock with same-day shipping available.

If you cannot find the appropriate stock patch cable with your application requires,Tang Pin also offers custom patch cable with same-day shipping.

Application:

- The armoured patch cable is used in the strong compressive situations .
- The single-core, double-core and multi-core fiber patch is composed of tightly wrapped

fiber ,stainless steel helix tube, Kevlar, outer sheath and connector.

- The product has excellent mechanical properties.
- Can be customized a variety of programs:SC/FC/ST/LC
- Armored Double-Jacket Design Resists Crushing, Abrasion, Cutting, and Pulling
- Light-Tight Construction
- 0.22 NA Low-OH Step-Index Multimode Fiber with Ø50 or Ø105 µm Core
- Custom Cables up to 30 m Long Available (Contact Tech Support)

Features:

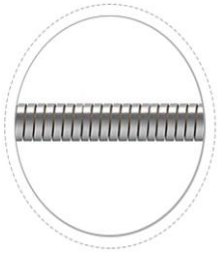
- Micro stainless steel hose with stainless steel woven mesh armor protection, can withstand 3000N flattening force
- Imported textile fiber reinforced, tensile strength can reach 200N
- PVC/LSZH/TPU outer sheath optional, meet UL, RoHS and other standards
- Resistant to pressure, tension, rat bite and monkey bite
- Small outside diameter and light weight
- 100% test before shipment

Performance:

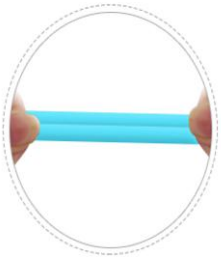
- Insertion loss:typical value 0.2db,maximum value 0.3 dB
- Return loss:20dB
- Operating temperature:-40℃~+85℃
- Durability:500 times



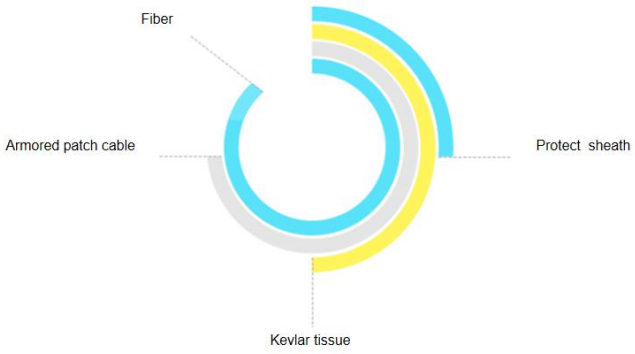
Maxmum bending radium
good elastic metal tube

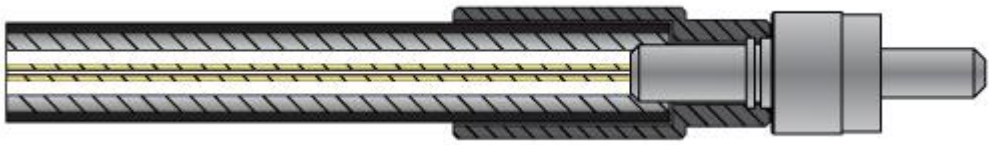


Stainless stiffener
Resist unperfect eviroments,specially avoiding rodents



Best imported material
High tensile strength, long service life





Cross section of armored patch cable with SMA connector. The structure is the same for all cables, other than the connectors.

Damage Testing Details

During testing, these cables were walked on by several adults and run over by a ~3300 lb (1500 kg) automobile with no loss in signal strength through the fiber. A razor blade was unable to cut through the steel tubing, and a ~50 lb (23 kg) weight dropped from 1" onto the cable did not result in damage. These tests were performed on the tubing in the middle section of the cable. Please note that the threaded collars of the SMA and FC/PC connectors are more susceptible to crushing damage. In addition, the cables were pulled with 15 lb force without damage to the tubing or connectors.

Fiber Type	Operating Wavelength	Operating Temp.Range	Core Diameter	Cladding Diameter	Minimum Bend Radius	Connectors	Jacket
SM / MM	400-2400nm	-50 to 60℃	50 μm ±2%	125±1μm	19mm^2	SMA	PVC/LSZH /TPU
	400-2400 nm	-50 to 60℃	105 μm±2%	125±1μm	19mm^2	FC/PC, SMA	PVC/LSZH /TPU

- CAD DrawingØ50 μm, 0.22 NA, SMA-SMA Armored Fiber Patch Cable,OEM
- CAD Drawing Ø105 μm, 0.22 NA, FC/PC-FC/PC Armored Fiber Patch Cable, OEM
- CAD DrawingØ105 μm, 0.22 NA, SMA-SMA Armored Fiber Patch Cable, OEM