



ARMORED FIBER OPTIC PIGTAIL & PATCHCORD



FCT Telekom & Elektrik & Elektronik

FIBER OPTICAL ARMORED

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General Description

The Armoured Fiber Optic Patchcords are basically jumper cable for the connection of fiber optic equipment to equipment or patch panel to equipment in a more rugged environment. It comprises of an armoured patch cable terminated with connectors and since the cable is armoured (spiral steel tape) type, it will provide additional crush resistant and rodent attack prevention.

The patchcord come in many variations in terms of fibers, cables and connectors. For fiber type, there is Singlemode or Multimode (50um, 62.5um, OM3 etc). As for the cable type, there is simplex or duplex. For connector type, to name a few common ones are ST, SC, FC, LC, MTRJ, SMA etc.

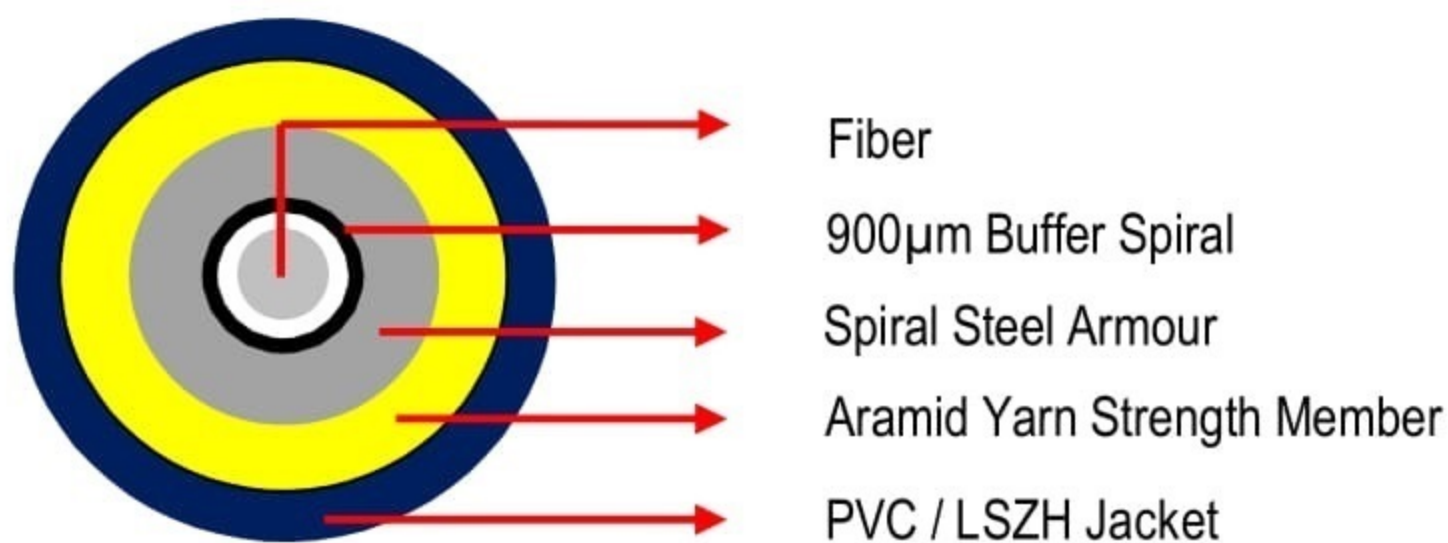
FCT is able to offer the complete range of Armoured Fiber Optic Patchcords mentioned in this data sheet.

Pictures

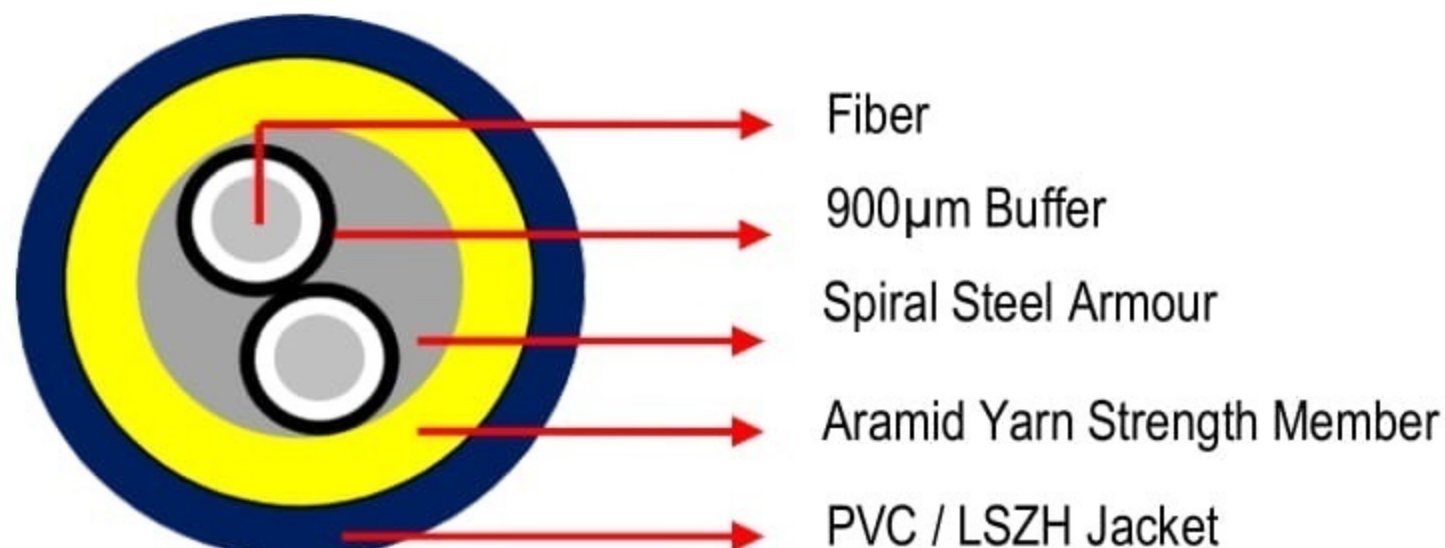


Patch Cable Basic Construction

Simplex Armoured Patch Cable (1 fiber)



Simplex Armoured Patch Cable (2 fiber)

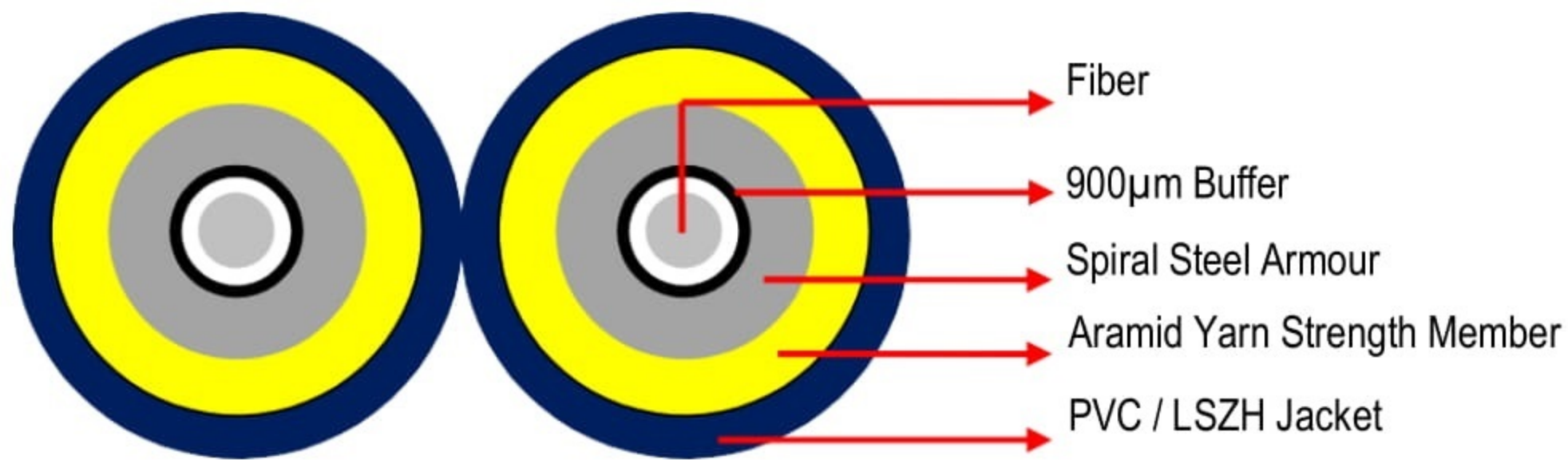


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Duplex Armoured Patch Cable



Optical Fiber

900um buffer Singlemode (9/125um G.652D – Standard, G.655 or G.657A), or Multimode (50/125um or 62.5um) fibers. Refer to Fiber Properties & Specification Data Sheet for more detail.

Armour

Spiral steel tape is used to house and protect the fibers.

Aramid Yarn

Aramid yarn is laid over the cable core to serve as peripheral strength member.

Jacket

PVC or LSZH jacket is extruded over the aramid yarn.

Outer Jacket Color

Blue for Singlemode (9/125um G.652D, G.655 & G.657A) Grey for Multimode (50/125um or 62.5um)

Features

- Withstands installation through tight bend radius
- High Return Loss
- Low Insertion Loss
- Cable diameter: 3.0mm
- Spiral steel armoured for flexibility
- Protected from rodent and minor crush

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Applications

- Patch panels within communications closets
- Communications closet jumper
- Communications closet to wall outlet
- Wall outlet to transceiver
- High bit rate data communications
- Analogue Video Transmission
- Subscriber loop
- LAN
- Suitable to be laid in cable tray for long distance patching

PRODUCT	TURKSAT CODE	BRAND/MODEL
ZIRHLI PATCHCORD	TKS-FOM-27	FCF/T-ARMSMSXL.PC
ZIRHLI PIGTAIL	TKS-FOM-28	FCF/T-ARMSMSXL.PT

Cable Specifications

Cable diameter	: 2.85 x 5.7mm (duplex zipcord) / 2.85mm (simplex)
Weight	: 38kg/km (duplex zipcord) / 20kg/km (simplex)
Short term tensile strength	: 400N
Long term tensile strength	: 200N
Term crush resistance	: 3000N/100mm
Short term crush resistance	: 5000N/100mm Long
Operating Temperature	: -25°C to +70°C
Flame retardant	: IEC60332-1 and IEC60332-3C
Fiber Core Diameter	: (SM) 9/125um (G.652D, G.655 & G.657A), (MM) 50/125um (OM2, OM3& OM4), 62.5/125um (OM1)
Return Loss (SM only)	: \leq -50dB PC
Insertion Loss	: \leq 0.3dB max.
Durability (500 matings)	: \leq 0.2dB max increase
Operating Temperature	: -25 ~ +70 degree Celsius

Safety Compliance

LSZH Grade	Halogen Content Test: IEC 60754-1 Acidity Test: IEC 60754-2 Smoke Emission Test: IEC 61034-1/2 Flammability Test: IEC60332-1 & -3C
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Armoured Patchcord Technical Specifications

Fiber Type	OS2, OM1, OM2, OM3, OM4
Jacket OD	3.0mm Simplex, 3.0mm Duplex <u>Zipcord</u>
Jacket Color	Blue OS2, Grey OM1&OM2, Aqua OM3 & OM4
Connector	SC. LC. FC. ST. MU
Jacket Type	OFNR
Insertion Loss	≤0.2dB
Return Loss*	UPC≥50dB, APC≥60dB, PC≥35dB
Temperature Range	-40 to +85°C
Tensile Strength	1500N short term, 500N long term
Tensile Resistance	>200N between connector & cable

*UPC≥55dB, APC≥65dB on request.

