



Better FTTx, Better Life.



December, 2025

Technical Information

Flexible MDU Drop Cable Assemblies – Patch Cord

Flexible Assembly Optical Connector

Simplex Round Armored Cable

3.0mm G.657A2

M:+86 18720624696
Email:sales@fcst.com
Tel:+86-21-38726791 38726792

www.fcst.com

www.micro-duct.com





Flexible MDU Drop Cable Assemblies-Patch Cord

Flexible SC Pushable Assemblies are factory pre-terminated and polished SC connectors designed to be terminated on simplex Flexible MDU Drop Cable Assemblies, allowing for connectorization on one or both ends. After being pushed, pulled or blown through microduct and small holes that are typical of most FTTX scenarios, the smooth wall protective sleeve is easily removed and two pieces of outer housing are snapped into place. This creates an industry standard connector without mechanical or fusion splicing.

Flexible Simplex Round Armored Cable Assembly has more flexibility and ruggedness than standard Optical Cable making it ideal for shorter drops where more handling and slack storage may be required. Whether it's used indoor or outdoor, the flexibility of the armored cable allows for deployment with reduced cable memory and decreases the risk of kinking. While Flexible cable assembly is typically used in conjunction with microduct solutions, in some applications, it can be stapled directly to walls and ceilings or used on building wrap applications.

Flexible MDU Drop Cable Assemblies can be successfully pushed through 5 mm (0.2 in) holes and microduct bores as small as 5.5 mm (9/64 in). Hand push distances vary according to bend frequency and duct quality. The rugged nature of the armored cable assembly reduces the cost of fiber deployments as well as the skill and difficulty of handling and connecting customer drop cables.

- REACH & RoHS compliant.
- Industry-standard SC Flexible connector.
- Installs inside microducts with bores as small as 5.5 mm (9/64 in) I.D.
- Pre-terminated so no field splicing/mechanical termination, tool-less installation.
- Armored low friction outer sheath provides ruggedized protection for the patch cord or pigtail.
- Suitable for all types of indoor and outdoor implementations.(duct required for aerial and direct bury)
- Smooth wall protective sleeve is easily removed and two pieces of outer housing are snapped into place.
- Tech-friendly pre-terminated pushable connectors rapidly decrease deployment times and reduce installation costs by eliminating in-field splicing.



Product Specifications

Construction	Description
Fiber	G.657A2 (B6a2)
Cable Diameter	3.0mm
Connector Types End A	SC/LC
Connector Types End B	SC/LC
Cable Length	10/20/50/100/200m (Length can be customized)
Polish Type	PC/APC/UPC
Insertion Loss	Typ. 0.15 dB,Max. 0.30 dB
Return Loss	PC 45 dB,UPC 50 dB,APC 60 dB
Repeatability	0.10 dB
Changeability	≤0.20 dB
Durability (1000 Mating)	≤0.20 dB
Stainless steel	SUS304, 1.7±0.05mm Outer Diameter,0.25mm Thickness
Aramid Yarn	4x1100D
Jacket	LSZH/OFNR/TPU/OFNP
Cable Wight	12.5 KG/KM
Operation Temperature	-40 ~ +80°C
Storage Temperature	-40 ~ +85°C



Product Specifications



The pulling eye will protect connectors while providing a pulling point with properly distributed tensions on cable assemblies. Worked as a stand-alone component installed on your custom cable assembly. The pulling eye has aramid yarn inside to reinforce cable tensile strength and the connectors are protected with cable netting.



Fiber Count	Multi-fiber	Simplex/Duplex
Maximum Pulling Load	2000 Newtons (500 lbs.)	550 Newtons (124 lbs.)
Minimum Bend Radius	4 cm (pulling eye only)	4 cm (pulling eye only)
Length	0.2 to 1.5 meters (Custom)	0.2 to 1.5 meters (Custom)
Eyelet (Strength member)	3.0mm PVC jacketed Kevlar (stainless steel optional)	3.0mm PVC jacketed Kevlar (stainless steel optional)

Related Products



Telecom Manhole Chamber



Microuduct Connector



Divisible Duct Sealing

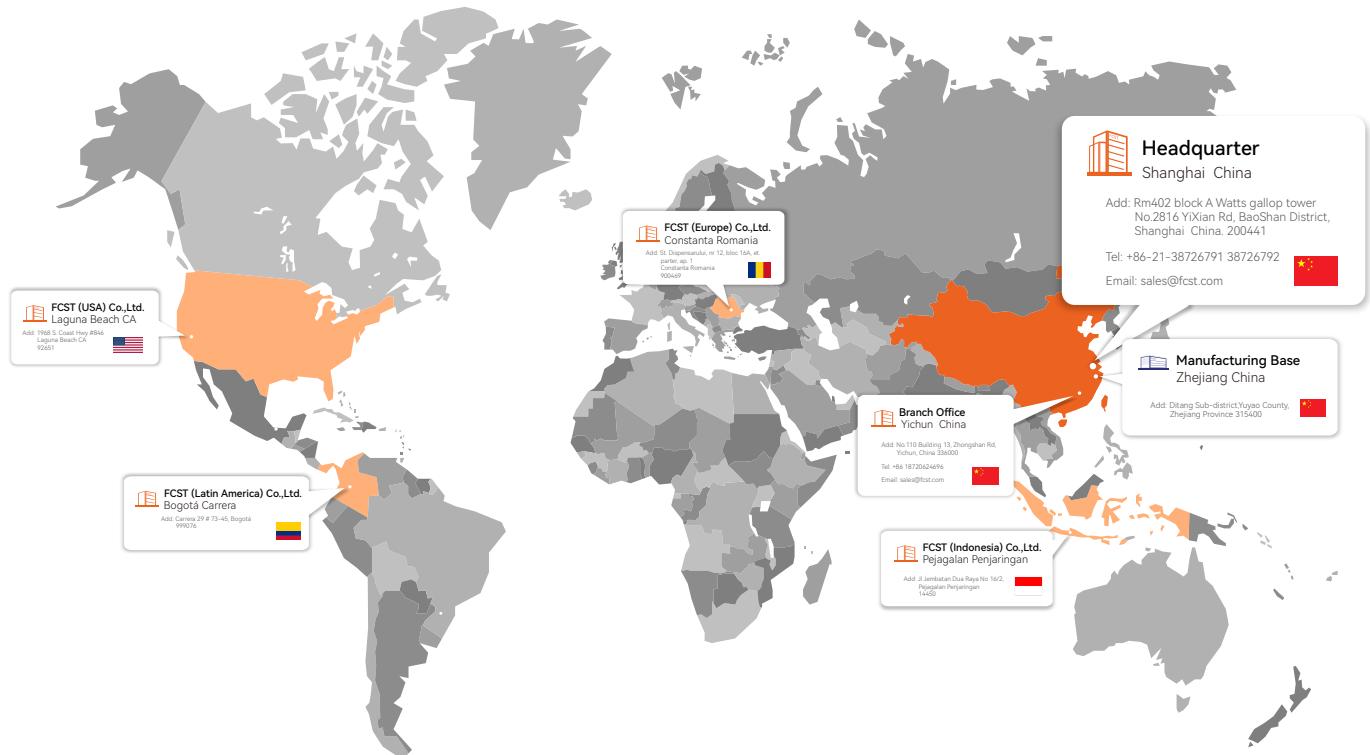


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FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durability.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicated to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

Rm402 block A Watts gallop tower No.2816 YiXian Rd, BaoShan District, Shanghai 200441.
Tel:+86-21-38726791 +86-21-38726792 Fax:+86-21-38726793

www.fcst.com www.micro-duct.com

