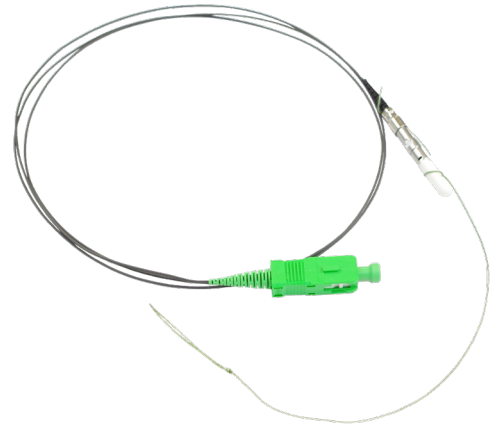


Application

Designed to simplify the placement of fibre, FieldShield StrongFiber reduces the cost of any fibre deployment while providing industry leading protection when combined with FieldShield Microducts. StrongFiber is pulled through microduct at turn-up maximizing installation efficiency. In the event of a duct or fibre being damaged or for future upgrades, the fibre can be easily pulled from the microduct. The duct is then repaired and a new FieldShield StrongFiber assembly is pushed or pulled through the microduct for a fast and cost-effective restoration or upgrade.

StrongFiber may be used in place of a traditional patch cord for reduced cable pile-up within the route-path of new or traditionally oversubscribed frames within a telephone exchange, headend, data centre or remote hut. StrongFiber is 85% smaller than traditional 3 mm patch cords and 69% smaller than 1.2 mm patch cords. The reduced size and weight make the fibre less susceptible to micro-bends and makes it much easier to store using any fibre management element.



Description

FieldShield StrongFiber is a durable high tensile strength fibre when compared to other fibres of its size. It is suitable for both indoor and outdoor environments when used in FieldShield Microduct. Manufactured with premium bend-insensitive fibre, FieldShield StrongFiber offers high tensile strength to resist damage to the fibre during installation in the FieldShield Microducts. When terminated with a FieldShield Pullable Connector, the FieldShield StrongFiber can be quickly deployed in FieldShield Microduct, reducing installation time drastically.

Features and Benefits

Integrity

- Complies with IEC 61300 and IP 54
- Available in single mode
- Supports all SC and LC connectors

Protection

- Bend-insensitive (G.657.A2) fibre protects optical signal with minimal to zero attenuation
- Lightweight with low coefficient of friction to maximize pull distances

Access

- Standard colour is black
- Tech-friendly 900 µm fibre
- Suitable for all types of indoor implementations

Investment

- Quick and easy deployment allows capital investment to be aligned to customer take rates

Technical Specifications

FieldShield StrongFiber - Physical Glass Characteristics	
Fibre Size	250 µm
Clad Diameter	125.0 ± 0.7 µm
Clad Non-circularity	≤ 1 %
Core/Clad Concentricity Error (Offset)	≤ 0.5 µm maximum, < 0.2 µm typically
Coating Diameter (Uncoloured)	235 - 245 µm
Coating-Clad Concentricity Error	(Offset) ≤ 12 µm
Tensile Proof Test	100 kpsi (0.69 GPa)
Coating Strip Force Range	≥ 0.3 lbf < 2.0 lbf (≥ 1.3 N < 8.9 N)

FieldShield StrongFiber	
Fibre	OFS All Wave Flex + Fibre or equivalent
Water Peak	ZWP (Zero Water Peak)
Bend-Insensitive	Meets G.657 A2
Colour	Black
Length	Up to 300 feet (91.44 m)
Fibre Count	Single Fibre
Pullable Connectors	FieldShield SC/UPC, SC/APC
Standard Connectors	SC/UPC, SC/APC, LC/UPC, LC/APC
Mode	Singlemode
Outside Diameter	900 µm
Material	Thermoplastic Blend, Low Smoke/Fume, Non-Halogen Flame Retardant
Rating	OSP Temperature Rated
Bend-Radius	10 mm minimum
Operating Temperature	-40°F to 176°F (-40°C to 80°C)
Installation Temperature	-14°F to 158°F (-26°C to 70°C)
Installation Tension	18 lbs (8.16 kg)

Performance Specifications

Connector Type	Ferrule Material	Polish Type	Ins. Loss Typical	Max. Ins. Loss	Min. Ret. Loss
SC	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
LC	Ceramic	UPC	0.15 dB	0.20 dB	55.00 dB
SC	Ceramic	APC	0.18 dB	0.20 dB	65.00 dB
LC	Ceramic	APC	0.18 dB	0.20 dB	65.00 dB

Configured Part Numbers

FS - A S 1 - 0 0 1 - Z Z - Z Z XXXM or XXXF

Select Connector #1

B = Pullable SC/UPC
D = Pullable SC/APC
A = SC/UPC
C = SC/APC
E = LC/UPC
G = LC/APC

Select Connector #2

B = Pullable SC/UPC
D = Pullable SC/APC
A = SC/UPC
C = SC/APC
E = LC/UPC
G = LC/APC
Z = Pigtail

XXXM or XXXF

XXXM = Length in metres
XXXF = Length in feet