

IN-LINE HARDENED FIBER OPTIC JUMPER

FJ-XX-SCMA-XXXX-XXXX-T / FJ-XX-SCMA-XXXX-XX-XXXXX-T
IP GRADE OUTDOOR ASSEMBLIES

This factory preterminated flat drop jumper is the industry standard for existing FTtx installations, it provides a quick and easy "plug and play" extension from the pedestal or handholes to hardened drop fiber optic assemblies and can be installed in aerial, direct-buried or duct installations, reducing the cost and time of drop cable deployment simplifying installation and maintenance.

These factory-based assemblies are machine polished to ensure excellence in performance intermateability and durability. All jumpers are video inspected to ensure connector end-faces are free of defects and contamination. Insertion loss is tested using standard-based testing procedures since it is environmentally sealed.



In-Line Hardened SC/APC
Connector to In-Line Hardened
SC/APC Connector Drop Fiber
Optic Jumper



In-Line Hardened SC/APC
Connector to Standard SC/APC
Connector Drop Fiber Optic
Jumper with Pulling Eye



In-Line Hardened SC/APC
Connector to Armored LC/UPC
Connector Drop Fiber Optic
Jumper

APPLICATIONS

- FTtx application

GENERAL CHARACTERISTICS

- Custom lengths from 20 to 2000FT
- Serial number for each jumper
- Female SC / APC Hardened Connector insertion loss less than 0.40dB
- Return loss > -65 dB{APC}
- UV resistant
- Operating temperatures : -13°F to 158°F (-25°C to +70°C)
- Storage temperature: -40°F to +158°F (-40°C to +70°C)
- All jumpers are 100% tested
- Environmentally stable
- Optitap® Compatible

STANDARDS

- GR-326-CORE
- GR-3120-CORE
- RoHS
- IP68 / NEMA 6P
- ANSI / TIA-568-C.3
- ANSI / TIA-568-C



Many of our fiber optic cable assemblies are highly configurable. If you don't see what you are looking for or have questions about our ordering matrix contained on this spec sheet, please email us info@mexfoserv.com



CHARACTERISTICS

FILUX HARDENED CONNECTOR SPECIFICATIONS	
POLISHING	APC (ANGLED PHYSICAL CONTACT)
CONNECTOR TYPE	SC
Insertion Loss (1310nm & 1550nm)	≤ 0.40dB
Return Loss (1310nm & 1550nm)	≥ - 65dB
Total Cable Assembly Insertion Loss Hardened Connector + Hardened Connector (1310nm & 1550nm)	0.80 Maximum
Ferrule Angle	8° ± 0.3°
Ferrule Type	Zirconia Ceramic
Ferrule Diameter	2.5mm
Operational Temperature	-40°C ~ 75°C

SINGLE-MODE CONNECTOR SPECIFICATIONS		
POLISHING	UPC (ULTRA PHYSICAL CONTACT)	APC (ANGLED PHYSICAL CONTACT)
CONNECTOR TYPE	LC	SC
Standard body color	Blue	Green
2mm boot color	Blue	Green
Max. Insertion Loss (1310nm & 1550nm)	≤ 0.20 dB	≤ 0.20 dB
Min. Return Loss (1310nm & 1550nm)	≥ -55 dB	≥ -65 dB
Total Cable Assembly Insertion Loss Hardened Connector + Standard Connector (1310nm & 1550nm)	0.60 Maximum	0.60 Maximum
Ferrule Type	Ceramic	Ceramic
Ferrule Diameter	1.25mm	2.5mm
Operational Temperature	-13° F to +158° F (-25° C to +70° C)	

"PLUG AND PLAY" CONNECTION



The FILUX In-Line Hardened Receptacle is fully compatible with the FILUX Hardened Plug. Used to create extensions and give protection to FILUX Hardened Assemblies.



SINGLE-MODE FIBER SPECIFICATIONS

SINGLE-MODE FIBER TYPES AND SPECIFICATIONS		
FIBER TYPE		G657A1
Mode field diameter (μm)	1,310nm	8.4 ~ 9.2
	1,550nm	9.3 ~ 10.3
Waveoptics® fiber type		T

SINGLE-MODE CABLE SPECIFICATIONS

FLAT DROP SIMPLEX CABLE

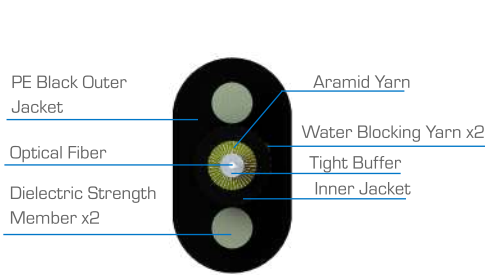


Fig. 1 Flat drop simplex cable
- Allows deployment near power line and utilities

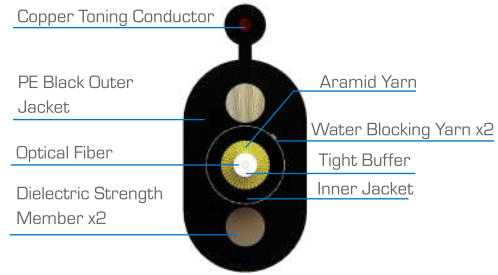


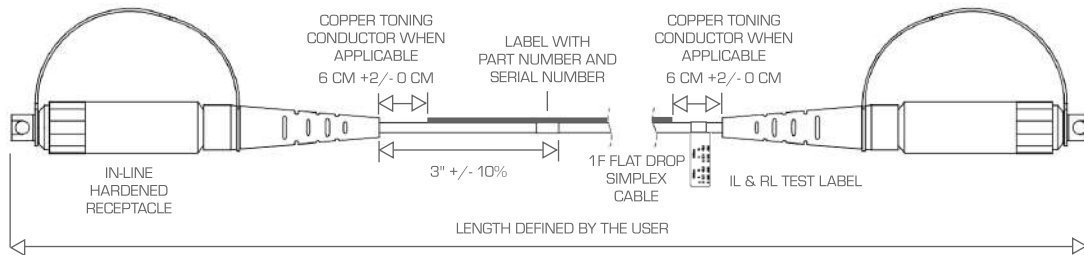
Fig. 2 Toneable flat drop simplex cable
- Allows traceability throughout the network

Note: Images for reference only

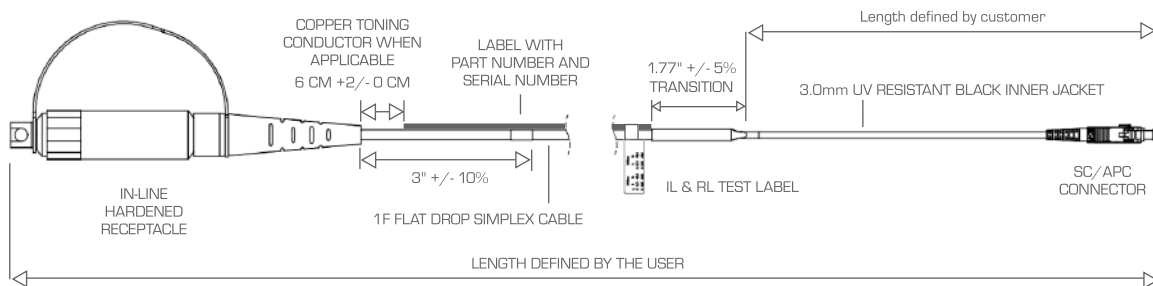
FLAT DROP SIMPLEX CABLE SPECIFICATIONS		
CABLE TYPE	Flat Drop Simplex Cable	Toneable Flat Drop Simplex Cable
Acrylate coated fiber diameter	250μm	
Tight buffer material/ diameter (mm) (inches)	PVC riser UV resistant/0.9mm (0.04")	
Nominal outer dimensions	8.1 x 4.5mm (0.32 x 0.18")	10.0 x 4.5mm (0.39 x 0.18")
Cable weight	44kg/km [29lb/kft]	48kg/km [32lb/kft]
Max. Attenuation (dB/km)	0.4 (1310nm) / 0.3 (1550nm) (dB/Km)	
Tensile strength long-term/short-term	400N/1350N	
Crush resistance (short-term/long-term)	2200N/100mm / 1100N/100mm	
Minimum bend radius (operation/installation)	10 x OD / 20 x OD	



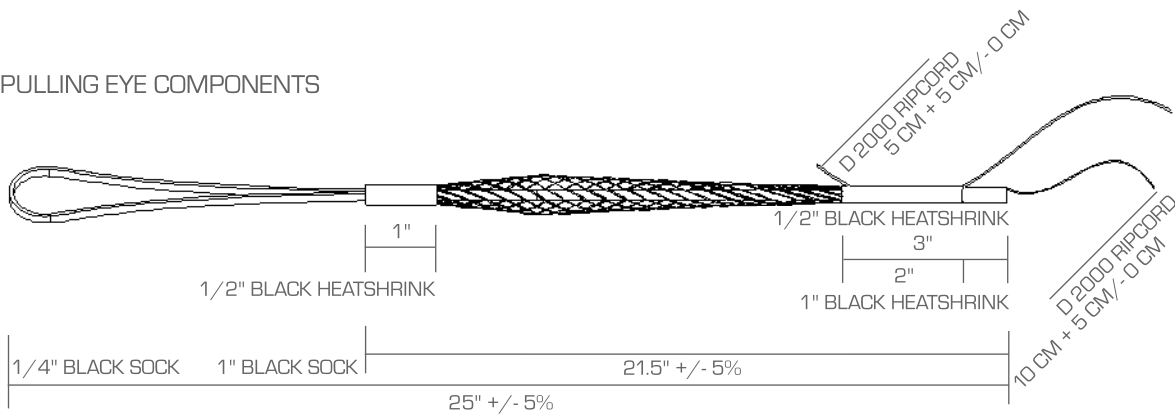
DIMENSIONS



IN-LINE HARDENED SC /APC TO STANDARD CONNECTORS EXAMPLES



PULLING EYE COMPONENTS



Note: The shown ripcords go below the 1/2" and 1" BLACK HEATSHRINKS

Note: The flat drop SC/APC hardened connector jumper tolerances are:
 ≤1000 ft +6 ft/- 0.0 ft
 >1000 ft ≤ 2000 ft +8 ft/- 0.0 ft

Images for reference only



STANDARD PACKAGING

BOX PACKAGING SPECIFICATIONS

1
ASSEMBLIES
FROM
20 ft TO
300 ft



**INDIVIDUAL
ZIPPER BAG**



**PACKAGING
BOX**



**MASTER
BOX**



PALLET

2
ASSEMBLIES
FROM
301 ft TO
1000 ft



**INDIVIDUAL
COIL**



**PACKAGING
BOX**



**MASTER
BOX**



PALLET

REEL PACKAGING SPECIFICATIONS

3
ASSEMBLIES
FROM
301 ft TO
700 ft



PLASTIC REEL

4
ASSEMBLIES
FROM
701 ft TO
1000 ft



PLASTIC REEL

5
ASSEMBLIES
FROM
1001 ft TO
2000 ft



PLASTIC REEL



INDIVIDUAL REEL BOX



LABEL WITH
PRODUCT
INFORMATION



PALLET

*Images for reference only

Note: Packaging is highly configurable. Please contact your sales representative for any questions or special packaging needs or email us info@mexfoserv.com



BOX PACKAGING SPECIFICATIONS								
1	Length	16 x 18" Zipper bag 1129	3 x 4" Label	Assemblies per 58.4X 49 X 23.5 CM packing box FONCS17-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
	20-50 ft	1	3	15	4	Fits 2 packaging boxes	30	16
	51-75 ft	1	3	12	4		24	
	76-100 ft	1	3	9	4		18	
	101-150ft	1	3	6	4		12	
	Length	20 x 20" Zipper bag S-12259	3 x 4" Label	Assemblies per 58.4X 49 X 23.5 CM packing box FONCS17-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
151-300 ft	1	3	3	4	Fits 2 packaging boxes	6	16	
2	Length		3 x 4" Label	Assemblies per 50 x 19.8 x 50 cm packing box FONCS16-M	Cable ties	Master box 60.4 x 51 x 51 cm FONCS15-M	Assemblies per master box	Master boxes per pallet
	301-1000 ft		2	1	4	Fits 3 packaging boxes	3	16
REEL PACKAGING SPECIFICATIONS								
3	Length		3 x 4" Label	Individual reel	Individual reel box	Boxes per pallet		
	301-700 ft		2	EM-1126 reel 20.5 x 16 x 36.5 cm	EM-1030A-M box 38.7 x 23.8 x 39 cm	60		
4	701-1000 ft		2	EM-1125 reel 34 x 30.5 x 36.5 cm	EM-1031A-M box 38.7 x 37.4 x 40.2 cm	45		
5	1001-2000 ft		2	EM-1136 reel 34.02 x 30.5 x 45.75 cm	EM-1024A-M box 48.1 x 37.2 x 48.5 cm	24		

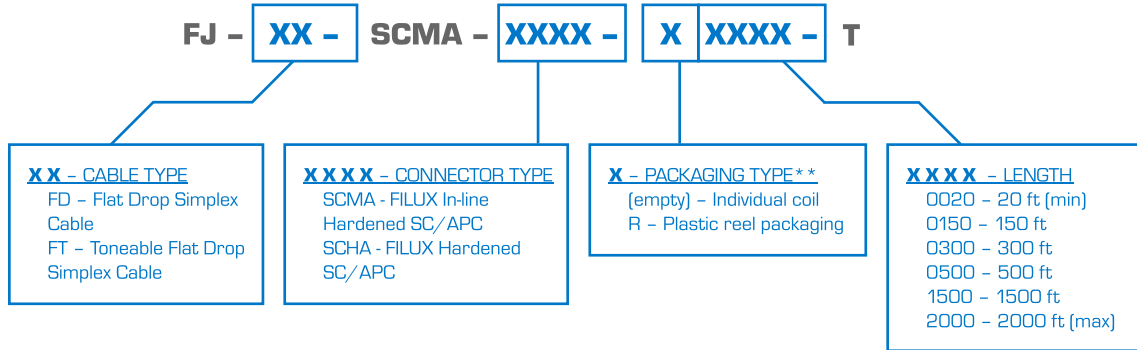
Notes:

1. Assemblies from 20FT to 100FT will be in leaps from 10FT to 10FT.
 2. Assemblies from 100FT to 300FT will be in leaps from 25FT to 25FT.
 3. Assemblies from 300FT and above will be in leaps from 50FT to 50FT.
- All boxes are mounted on a 1x1.2m (40 x 48") CERT-1113 certified pallet.

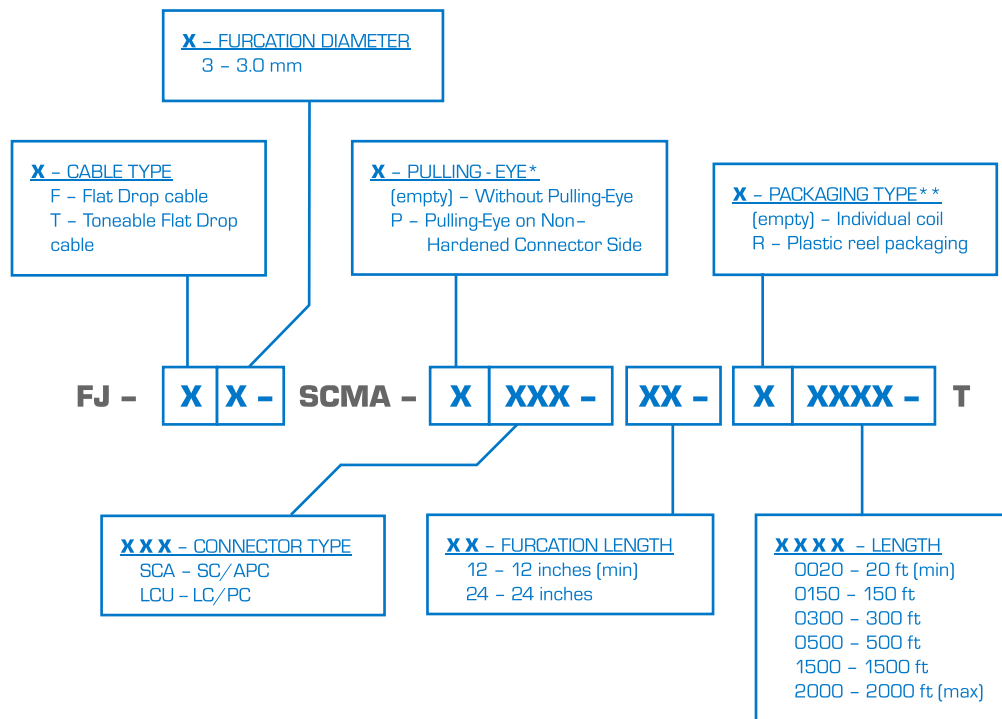


ORDERING MATRIX

SC / APC IN-LINE HARDENED FIBER OPTIC JUMPER



HYBRID SC / APC IN-LINE HARDENED FIBER OPTIC JUMPER



Notes:

- The 3.0mm simplex cable is always black due to jacket construction.
- * The pulling eye can only be added on one end in any transition (non-hardened connector side).
- ** Configurable packaging type only available for assemblies between 301 to 1000 feet.

