

## FLAT DROP FIBER OPTIC JUMPER

FJ-XX-XXX-XXX-XX-XXXXX-T  
OUTDOOR CABLE ASSEMBLIES

This factory preterminated flat drop jumper is the industry standard for existing FTTx installations. Flat drop cable assemblies are designed to meet requirements for indoor/outdoor assemblies with fully dielectric construction, simplifying the transition from the outdoor environment to an indoor Optical Network Terminal (ONT). It can be installed in aerial or duct installation.

These factory-based assemblies are machine polished to ensure excellence in performance intermateability and durability. All patch cords are video inspected to ensure connector end-faces are free of defects and contamination.



SC/APC flat drop fiber optic jumper

### APPLICATIONS

- FTTx application
- Outdoor / Indoor transition

### GENERAL CHARACTERISTICS

- Custom lengths from 20 to 2000 ft
- Serial number for each jumper
- Insertion loss:  $\leq 0.20$  dB
- Return loss (UPC):  $\leq -55$ dB
- Return loss (APC):  $\leq -65$ dB
- All pigtails are 100% optically tested
- Operating temperatures:  $-13^{\circ}$  F to  $158^{\circ}$  F ( $-25^{\circ}$  C to  $+70^{\circ}$  C)
- Easy to strip cable for quick splicing

### STANDARDS

- RoHS
- ANSI/TIA-568-C.3

**Note:** Illustrative images



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](mailto:info@mexfoserv.com)



### CHARACTERISTICS

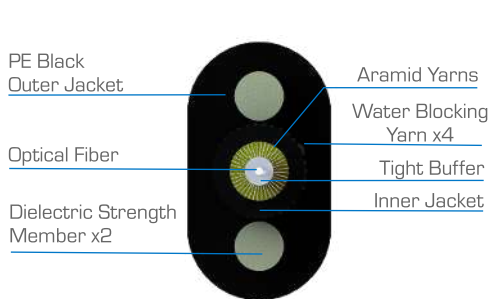
SINGLE-MODE CONNECTOR SPECIFICATIONS			
CONNECTOR POLISHING	UPC (ULTRA-PHYSICAL CONTACT)		APC (ANGLED PHYSICAL CONTACT)
CONNECTOR TYPE	SC	LC	SC
Standard body color	Blue		Green
Boot color	Blue		Green
Max. Insertion Loss (1310nm & 1550nm)	≤ 0.20 dB		≤ 0.20 dB
Min. Return Loss (1310nm & 1550nm)	≤ -55dB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

### SINGLE-MODE FIBER SPECIFICATIONS

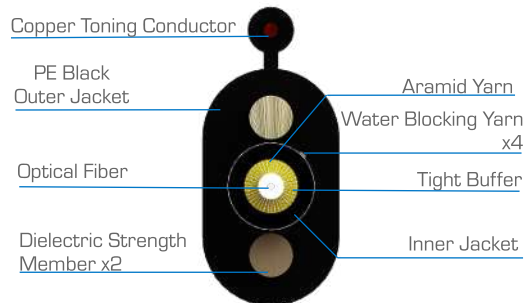
SINGLE-MODE FIBER TYPES AND SPECIFICATIONS		
FIBER TYPE	G657.A1	
Mode field diameter (μm)	1310nm	8.4 ~ 9.2
	1550nm	9.3 ~ 10.3
Waveoptics® fiber type	T	

### SINGLE-MODE CABLE SPECIFICATIONS

#### FLAT DROP SIMPLEX CABLE



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

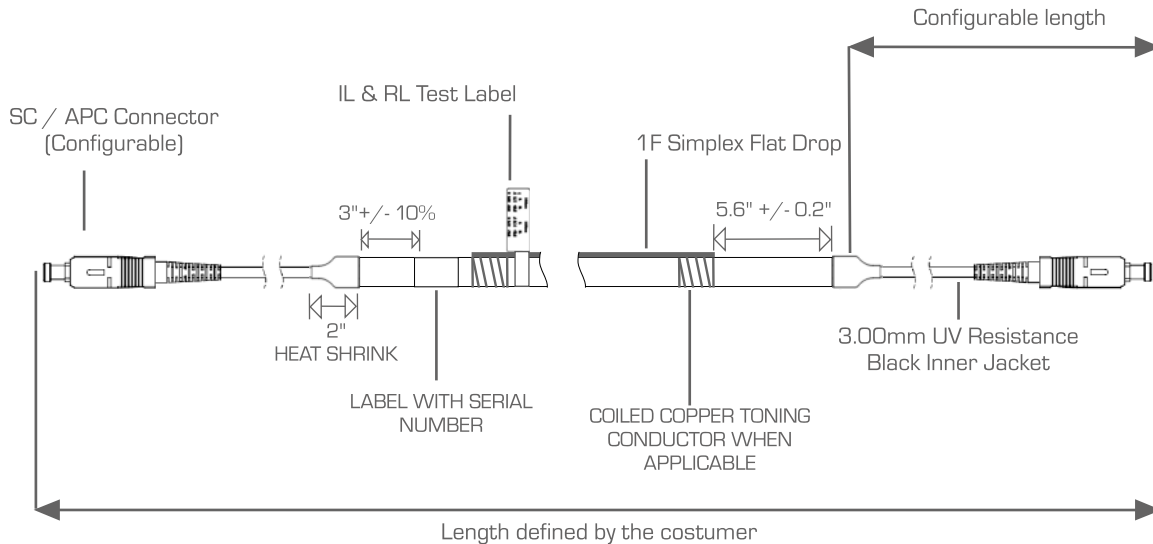


**Fig. 2** Toneable flat drop simplex cable  
- Allows traceability throughout the network

**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	PVC riser/0.9mm (0.04")	
Nominal outer dimensions	8.0 x 4.5mm (0.32 x 0.18")	10.0 x 4.5mm (0.39 x 0.18")
Cable weight	43.5kg/km [29.2lb/kft]	47.4kg/km [31.9lb/kft]
Max. Attenuation	0.4 (1310) / 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



**Note:** Flat drop fiber optic jumper tolerances are: +4 ft/- 0.0 ft

**Note:** 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  
2000 ft



PLASTIC REEL



INDIVIDUAL REEL BOX

## LABELING SPECIFICATION

INDIVIDUAL ZIPPER BAG



		<a href="http://www.mexfoserv.com">www.mexfoserv.com</a> <a href="mailto:info@mexfoserv.com">info@mexfoserv.com</a>
<b>PRODUCT CODE:</b> FJ-XX-XXX-XX-XXXXX-T		
<b>DESCRIPTION:</b> [CABLE TYPE] XXX XXX XX X[LENGTH] 1310nm 1550nm SM G657.A1 JUMPER IL RL IL RL		
A1 x,xx -xx,xx x,xx -xx,xx A2 B1 x,xx -xx,xx x,xx -xx,xx B2		
<b>QTY:</b> XX PCS		
 FJ-XXXXXX-XXXXX-T		

PLASTIC REEL



FONCS16-M

		<a href="http://www.mexfoserv.com">www.mexfoserv.com</a> <a href="mailto:info@mexfoserv.com">info@mexfoserv.com</a>
<b>PRODUCT CODE:</b> FJ-XX-XXX-XX-XXXXX-T		
<b>DESCRIPTION:</b> [CABLE TYPE] XXX XXX XX X[LENGTH] 1310nm 1550nm SM G657.A1 JUMPER IL RL IL RL		
A1 x,xx -xx,xx x,xx -xx,xx A2 B1 x,xx -xx,xx x,xx -xx,xx B2		
<b>QTY:</b> XX PCS		
 FJ-XXXXXX-XXXXX-T		



INDIVIDUAL REEL BOX



FONCS15-M

LABEL WITH  
PRODUCT  
INFORMATION



FONCS17-M



BOX PACKAGING SPECIFICATIONS								
1	Length	16 x 18" Zipper bag 1129	3 x 4" Label	Assemblies per 58.4 x 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 58.4 x 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		
	301-2000 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		

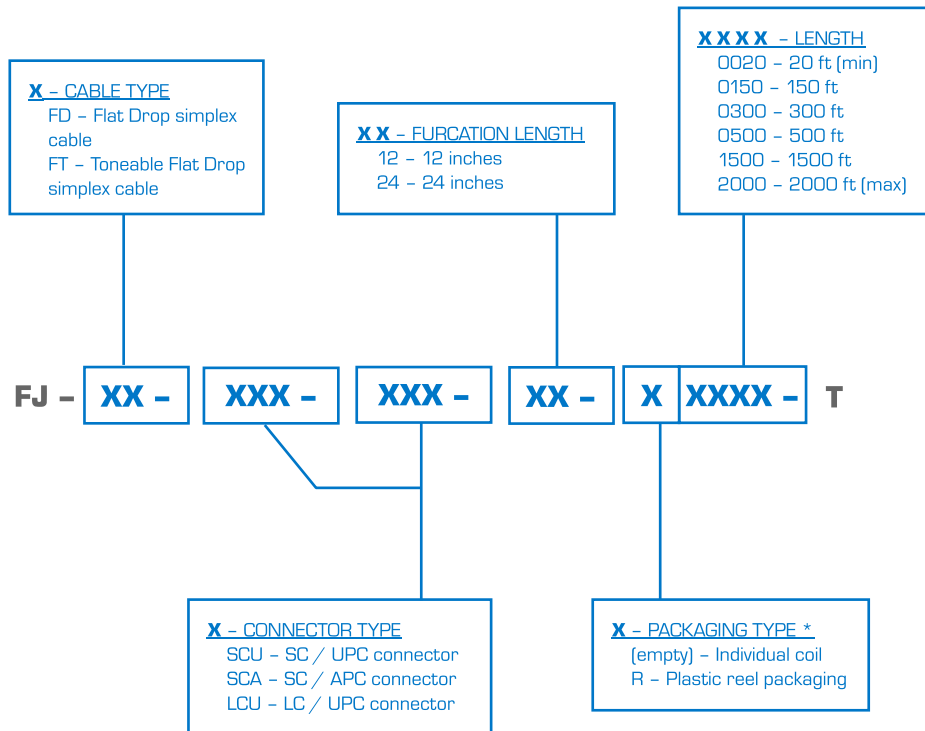
**Notes:**

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**

## FLAT DROP FIBER OPTIC JUMPER


**Notes:**

- The 3.0mm simplex cable is always black due to jacket construction.
- \* Configurable packaging type only available for assemblies between 301 to 1000 feet.
- \* Assemblies above 1001 ft are only available in reel.

