



Data Center Solution



FTTH Solution



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Design and specifications are subject to change without notice.



Discover the difference,
Unlike any other!



End to End FTTx Solution

BY USING BEST IN CLASS FUSION SPLICE-ON CONNECTORS AT THE SUBSCRIBER END HIGH QUALITY CONSISTENT CONNECTIVITY IS ASSURED.

Features

- No future maintenance required
- No cable slack or storage is required
- High quality connectors at very competitive price points.

SC FSOIC



LC FSOIC



Hardened FSOIC



KF4A All In One Fusion Splicer

No scratches and physical damage on fiber by the built-in thermal stripper



Patented

★★★★

PREMIUM FUSION SPLICER

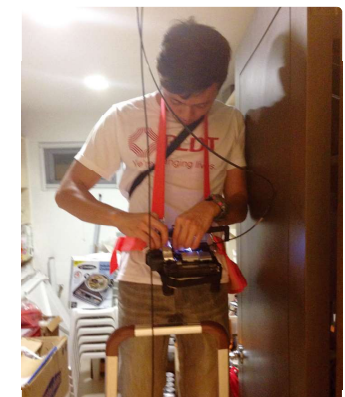
★★★★



Outdoor Pole Termination



Outdoor Bucket Truck Installation



Indoor Ladder Installation

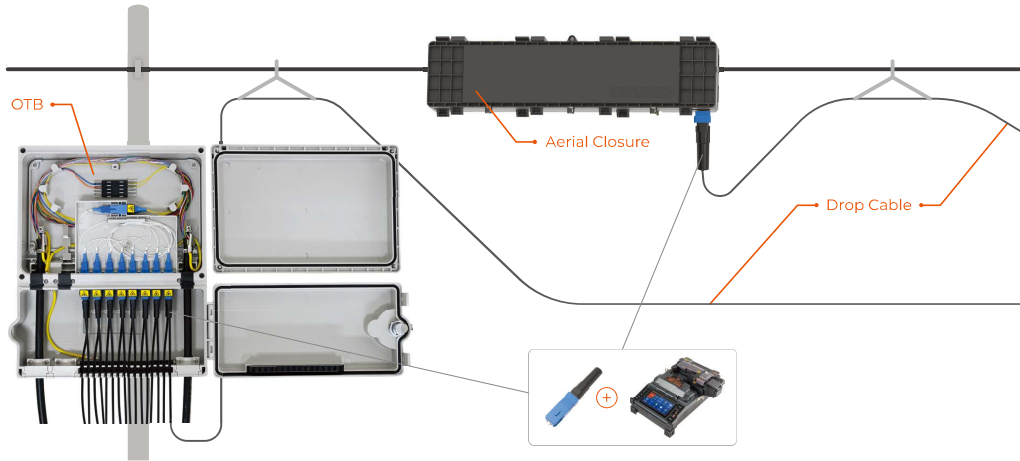
The KF4A compacts size makes it ideal for any environment.



FTTH Total Solution

Swift Solution for FTTH Last Mile Connectivity

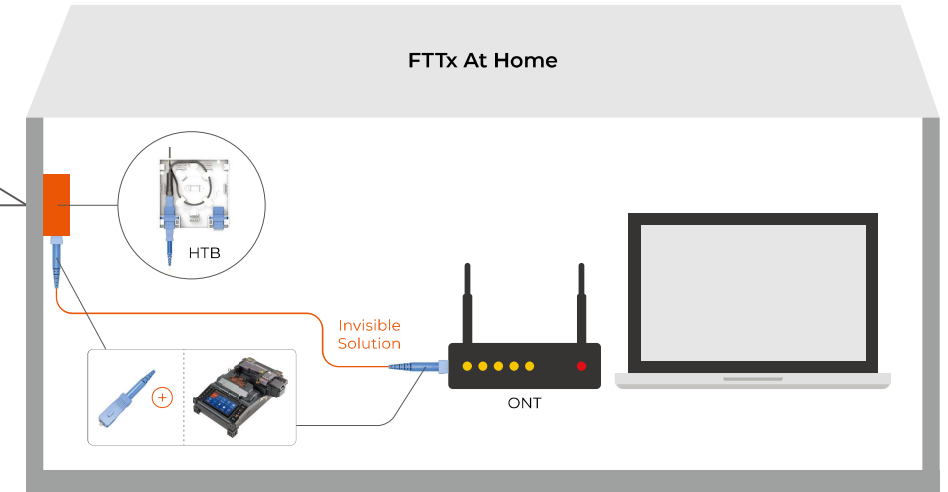
By using Swift splice-on connectors along with our industry standard splitters service providers are able to install small footprint indoor/outdoor, pole/aerial/wall mounted enclosures to support their network.



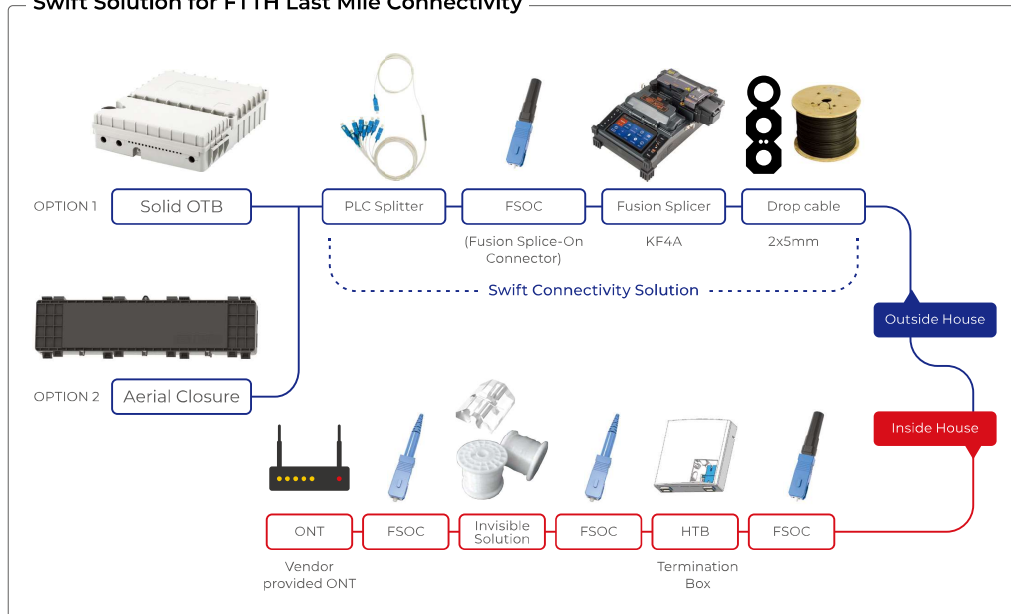
UCL Swift designs, manufactures and tests all of our solutions from end to end. All our connector components, including the ferrules, all splicer components and injection molded products are made with pride in our facilities.

Features

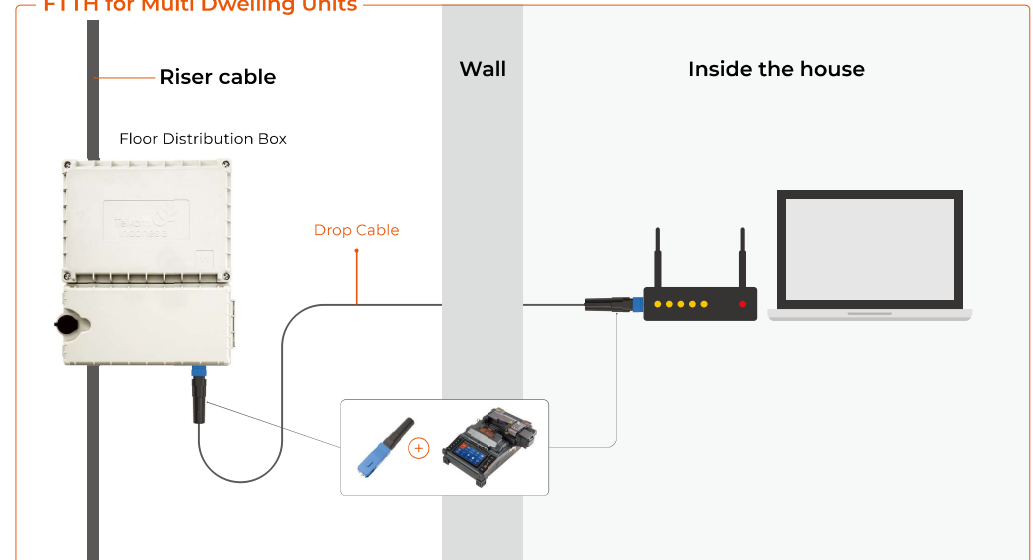
- Future proof solution once installed
- No cable slack required
- High performing, quality solutions at a competitive price points



Swift Solution for FTTH Last Mile Connectivity



FTTH for Multi Dwelling Units

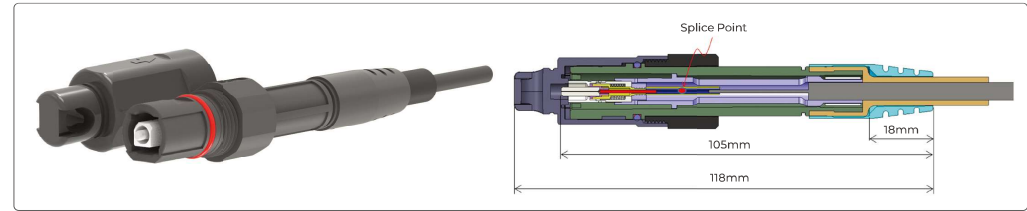


Fusion Splice-On Connector - FSOC

Hardened Fusion Splice-On Connector

ALL IN ONE
ARC FUSION SPLICER

KF4A
Eliminate scratches and physical damage to fiber utilizing the built-in thermal stripper



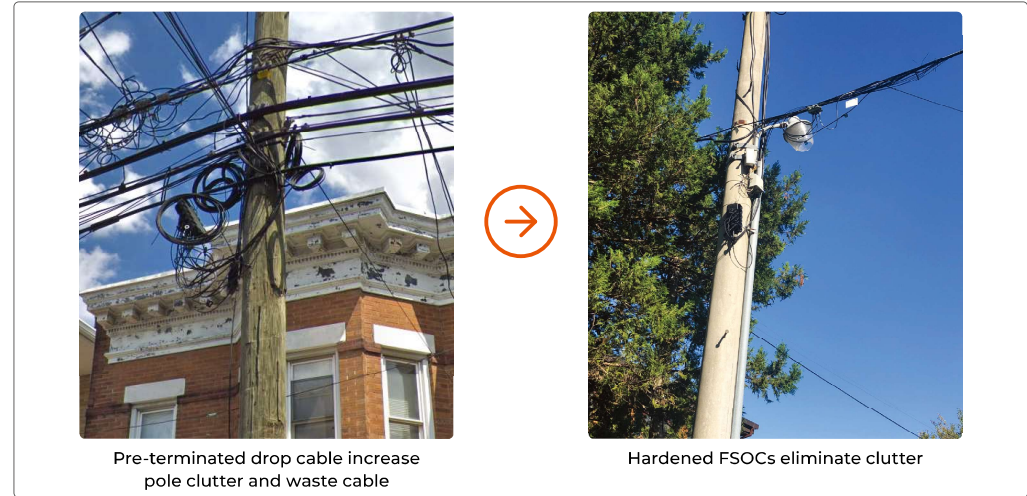
Fusion splice-on connector parts view

Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
SC, LC, ST, FC (SM)	UPC APC	0.15	0.30	≥50 (UPC) ≥60 (APC)

SC FSOC package

LC FSOC package



Technical specifications

Process	Specifications (at 1310nm and 1550nm)	
	Typ.	Max.
Insertion loss	Typ.	≤0.2dB
	Max.	≤0.3dB
Return loss	min.	>60dB (APC)

Proof Test

- Plug/Cap Straight pull (0°), 20 kgf (100 lbs), 10 minutes
- Plug/Adapter Straight pull (0°), 11.3 kgf (25 lbs), 60 sec
- Plug/Adapter Side pull (90°), 6.8 kgf (15 lbs), 60 sec
- Loss change (Before/After test) - 0.3 dB IL Change / 5 dB RL Change

T.W.A.L

- 0°, 90°, 135° respectively, 6.8kgf, 30 mins
- Loss change - 0.5 dB IL Change / 5 dB RL Change

Water Resistance

- 3.04 m (10 ft), no water intrusion after 7 days

Features

- Provide neatly organized cables on the pole
- Highest quality connectivity with fusion termination
- Cost savings for excess cable slack (average 33m)
- Applicable cables : 5.8mm, 5.0mm
5.4x3.0mm, 8.1x4.5mm

KF4A All In One Fusion Splicer

Optical Terminal Box (OTB)

Solid OTB



Features

- Entry Deterrent locking system
 - Separated Compartments for Service Provider and Subscribers
 - Unique locking system available after installing the splitter
 - Supports up to 2 Splitters Per Box
- Easy access for subscribers
 - Open and lock with a key provided
 - Easy access for the Internet connections and troubleshooting
 - Shuttered adapter installed to protect dust and dirt and injury

Item	OTB-PW-16
Dimensions (L*W*H)	346 x 281 x 80 (mm)
Weight	1.2kg
Inlet Ports	[Main] 2 ports, [Branching] 1 port, [Drop] 16 ports
Cable Diameter	[SCPT Cable] Ø10 ~ Ø15
No. of Splitter	Max. 2ea (1:8 splitter – cassette type)
Drop cable capacity	Max. 16 ports

Aerial Closure



Features

- 2 Compartment Design – Distribution cable section and Splitter & Drop cable section
- 2 splice trays
- Supports up to 2 - 1x8 splitter modules
- Can accommodate up to 16 drop cables
- Mid-span branching is possible for SCPT (Single core per tube) cable

Item	ODP-AC-16
Dimensions (L*W*H)	630 x 146 x 80 (mm)
Weight	2.2kg
Inlet Ports	[Main] 2 ports, [Branching] 2 ports, [Drop] 16 ports
Cable Diameter	[SSW Cable] 5.0 x 2.7 (SSW) with messenger wire [SCPT Cable] Ø10 ~ Ø15
No. of Splitter	2ea
Splice Capacity	24C (Max. 48C)
No. of Splitter	Max. 2ea (1:8 splitter)
Drop cable capacity	Max. 16 ports

Optical Splitter



Parameter	1x2	1x4	1x8	1x16	1x32	1x64
Insertion loss (Typ.) (1,2,3)	3.6dB	6.8dB	9.8dB	13.0dB	16.5dB	19.8 dB
Insertion loss (max) (1,2,3)	3.8dB	7.2dB	10.3dB	13.5dB	16.8dB	20.2 dB
Loss uniformity (max) (1,3,4)	0.6dB	0.5dB	1.0dB	1.3dB	1.5 dB	1.9 dB
PDL (max) (1)	0.15dB	0.2dB	0.25dB	0.25dB	0.3 dB	0.3 dB
WDL (max)	0.5dB	0.5dB	0.5dB	0.5dB	0.5dB	0.5dB
TDL (max)	0.3dB	0.3dB	0.3dB	0.5dB	0.5dB	0.5dB
Return loss (min) (1,3)				55.0 dB		
Directivity (min)(1,3)				55.0 dB		
Operating Wavelength				1260 ~ 1650nm		
Input Power (max)				300mW		

- Measured at room temperature, and wavelength of 1.31 & 1.55µm.
- Coupling losses at the interfaces between the splitter chip and I/O fibers are included.
- Connector loss is excluded.
- See Appendix A for details in the specification provided by UCLSwift Co., Ltd.

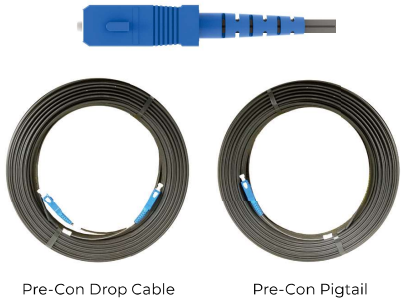
Cables

	Indoor Cable			Outdoor Cable		
Cable construction						
Cable type	Invisible fiber	Indoor cable	Indoor cable	Drop cable	Drop cable	Drop cable
Dimensions	900um	3mm	2 x 3mm	2x5mm (with wire)	5.4 x 3.0mm	5mm
Operating temperature	0°C to +60°C	-10°C to +60°C	-20°C to +60°C	-20°C to +60°C	-40°C to +70°C	-25°C to +60°C
Dielectric	Metal-free	Metal-free	Metal-free	Metal Wire Included	Metal-free	Metal-free
Coated fiber diameter	900um tight buffer	900um tight buffer	250um	250um	900um tight buffer	900um tight buffer
Jacket color	Transparent	Yellow	White	Black	Black	Black (Inner white)
Jacket material	Nylon	LSZH	LSZH	LSZH	MDPE	MDPE (Inner LSZH)

Pre-connectorized Drop Cable

Cable Assemblies

SC connector type



Hardened connector type

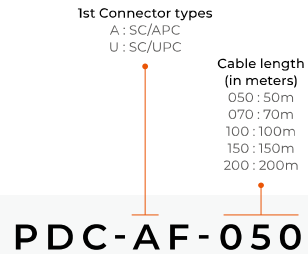


Technical specifications

Process	Typ.	Specifications (1310nm and 1550nm)
Insertion loss	Typ.	≤0.2dB
	Max.	≤0.35dB
Return loss	min.	>50dB (UPC), >60dB (APC)

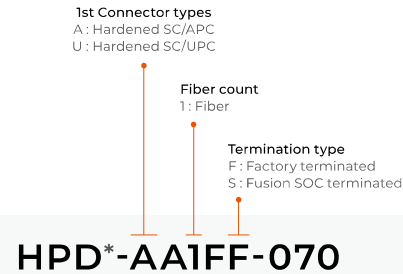
Ordering Information

Pre-Connectorized Drop Cable



2nd Connector types
A: SC/APC
U: SC/UPC
N: No connector

Hardened Pre-Connectorized Drop Cable



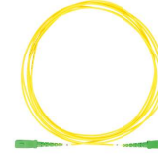
Cable type
F: Flat cable
R: Round cable

2nd Connector types
A: Hardened SC/APC
U: Hardened SC/UPC
B: SC/APC
C: SC/UPC
N: No connector

Cable length (in meters)
70: 70m
100: 100m
150: 150m
200: 200m

* HDP: Hardened Pre-Connectorized Drop Cable

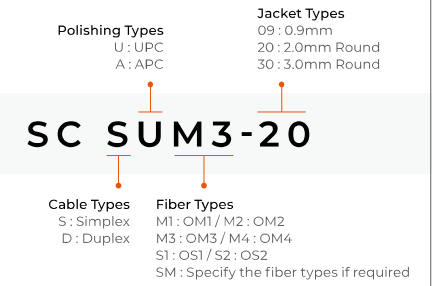
SC Patch Cords



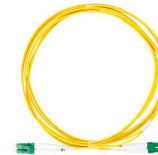
Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
SC(SM)	UPC/APC	0.15	0.3	≥55(UPC) ≥65(APC)
SC(MM)	UPC	0.15	0.3	≥30

Ordering Information



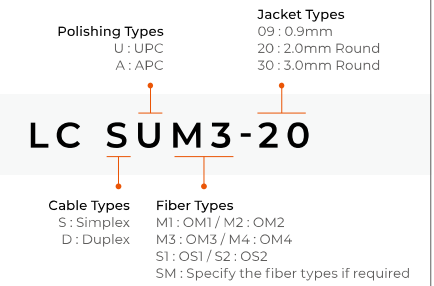
LC Patch Cords



Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
LC(SM)	UPC/APC	0.10	0.3	≥55(UPC) ≥65(APC)
LC(MM)	UPC	0.10	0.3	≥30

Ordering Information



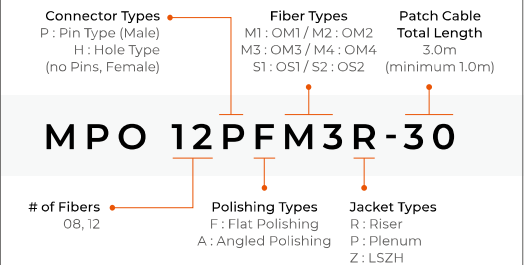
MPO/MTP Patch Cords



Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
MPO(MM)	Flat	0.10	0.35	≥20
MPO(SM)	APC	0.10	0.35	≥60

Ordering Information



MPO Trunk Fanout Cables



Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
MPO(MM)	Flat	0.10	0.35	≥20
MPO(SM)	APC	0.10	0.35	≥60
LC(MM)	UPC	0.10	0.30	≥30
LC(SM)	UPC	0.10	0.30	≥55
LC(MM)	APC	0.10	0.30	≥65

Ordering Information

