Custom Lengths.
Simple & Fast Deployment.
Cost & Inventory Effective.

SWIFT-FX

Hardened Solution

Patented

The Next Technology for Fiber to the Home

Pioneers in Ubiquitous Cable Solution

At UCL, our journey began in 1982 with a vision to revolutionize the world of connectivity. Today, we proudly stand as a global leader providing comprehensive optical cable solutions.
Our unwavering commitment to forging a brighter future is encapsulated in our company name, Ubiquitous Cable Link.

Our Commitment to Excellence

Our core focus is delivering total optical cable solutions that empower industries across the spectrum, including FTTH, data centers, and defense.

Advanced R&D and high-quality production systems ensure that all our products meet the strictest reliability standards. With an unwavering commitment to quality, we have earned the trust of clients worldwide, shipping our products to every corner of the globe.

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SWIFT-FX
The All-In-One FTTH Solution

SWIFT-FX Revolutionizes Connectivity

SWIFT-FX Hardened Solutions, based on fusion splicing technology, form a family of last-mile broadband solutions.

Network installers and operators utilize SWIFT-FX small-form-factor terminals, drop cables, midspans, and UCL Swift's all-in-one fusion splicer technology to build highly efficient networks.

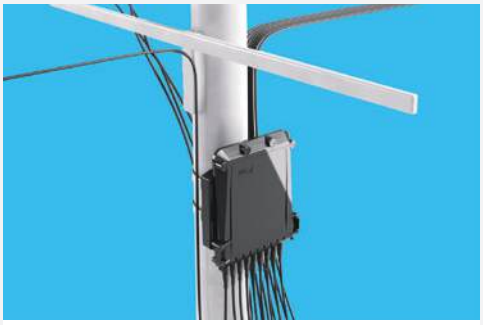
It offers flexibility and a range of options for FTTH network development, delivering optimal optical performance.

Seamless Network Integration. Optimal Choices with a Diverse Product Lineup

Our splitters, taps, and stub terminals are compatible with UCL Swift Push/Pull hardened connectors.
These connectors, similar to the OptiTap® style connectors, can be spliced on in the field.

Compact terminal design allows for easy installation in both greenfield and brownfield environments.

The patented Push/Pull technology streamlines connector installation, accelerating the process.



Eliminate wasteful Cable Slack with On-Site Fusion Splicing

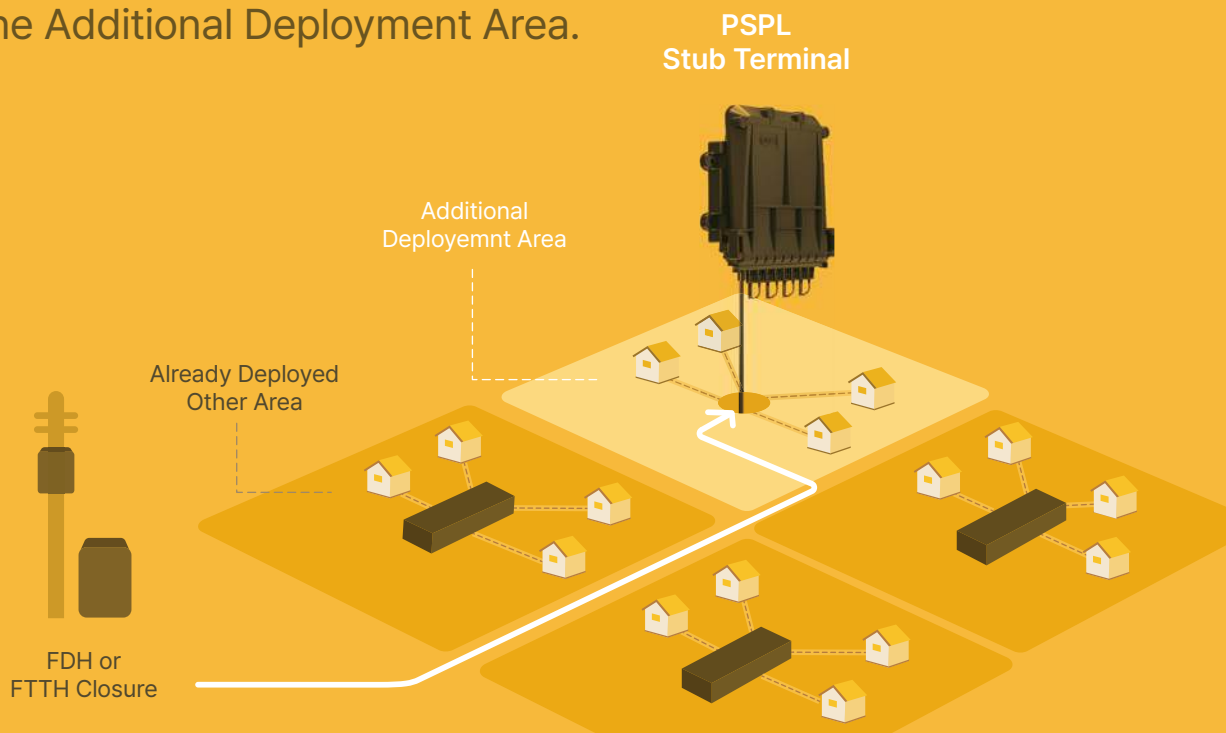
On-site cable cutting and termination enable precise cable installations, reducing cable waste, and simplifying installations, even in congested pathways.

This not only reduces costs but also preserves urban aesthetics and benefits the environment.

SWIFT-FX in a Brownfield

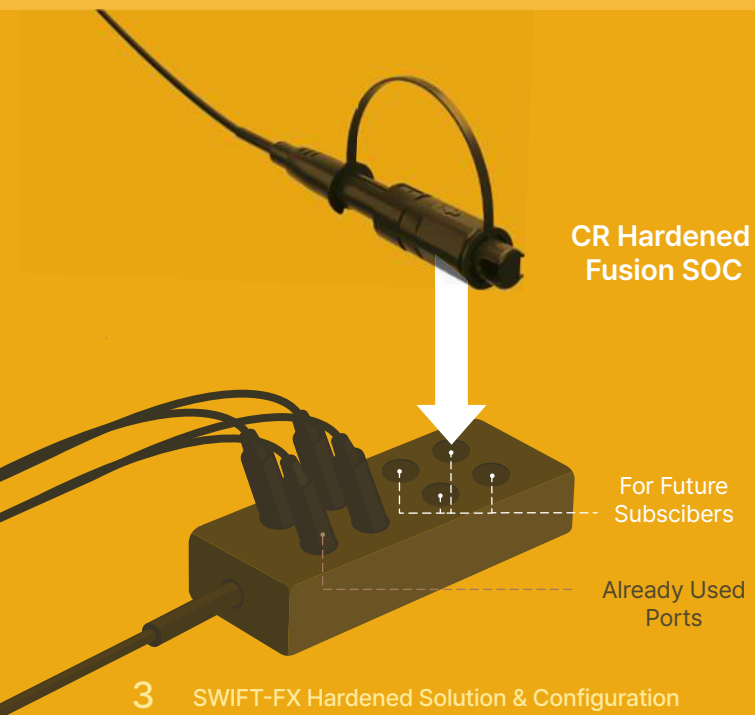
Solution 1

Utilize **PSPL Stub Terminal** for the Additional Deployment Area.

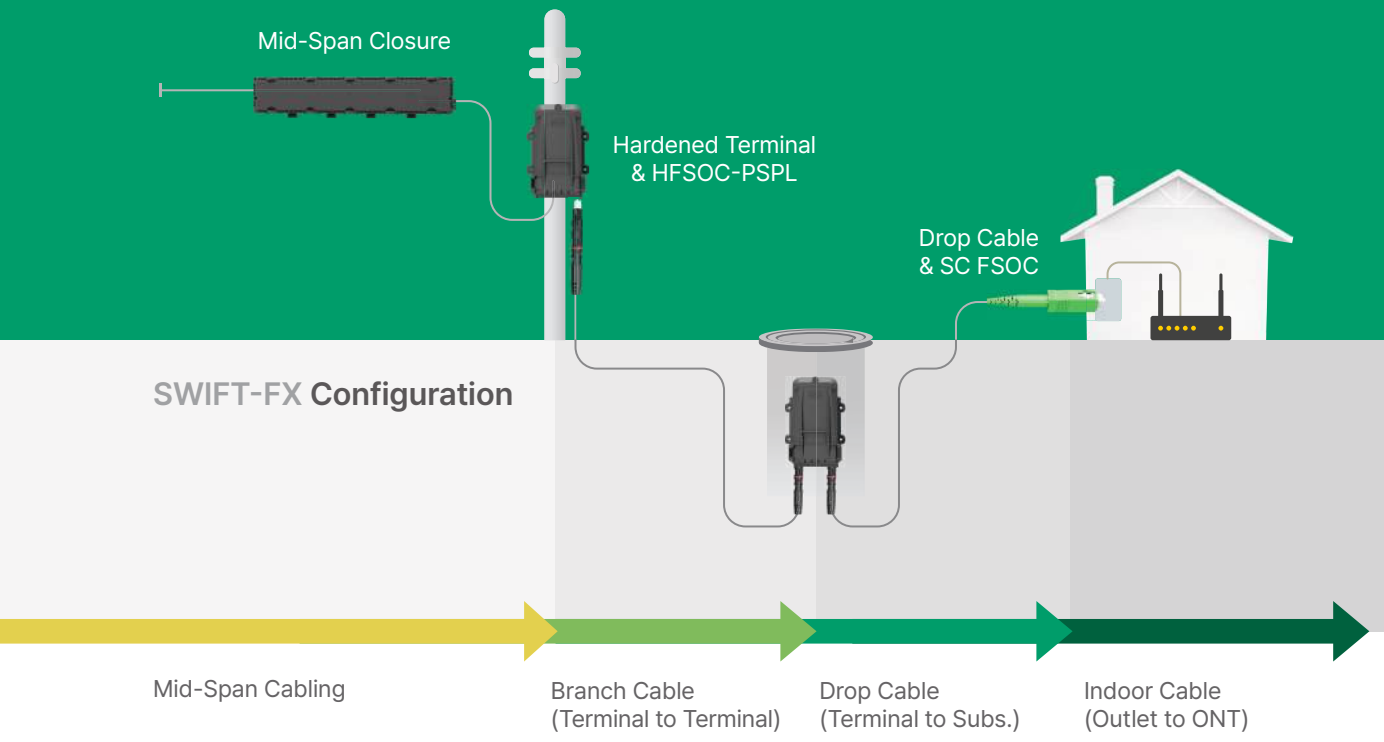


Solution 2

Utilize **CR Hardened Fusion SOC** for Future Subscribers.



SWIFT-FX in a Greenfield



Cables are Built to Length On-Site
without Unnecessary Coils or Waste.

Minimize Inventory Costs.
Reduce Environmental Impact.

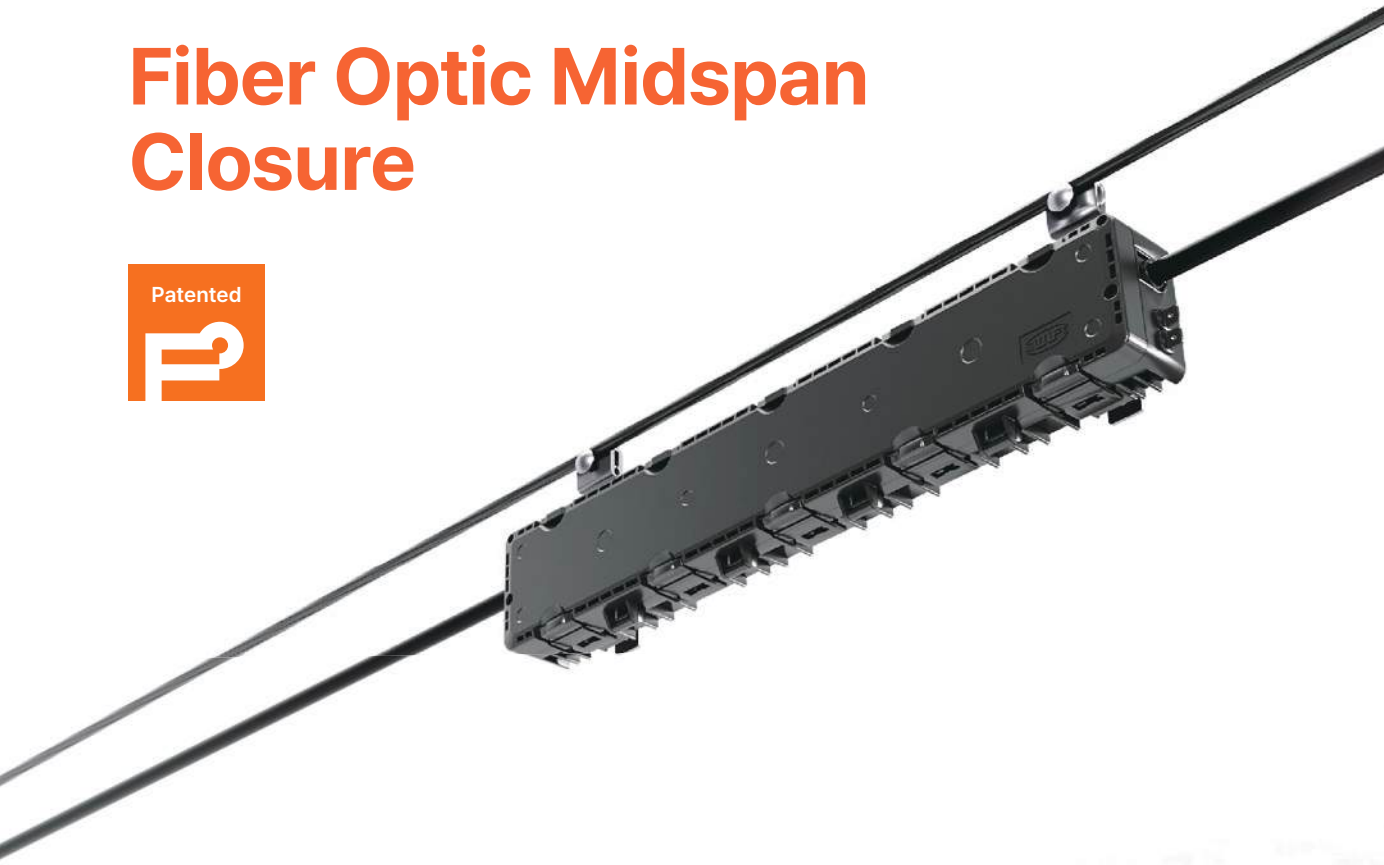
Multiple Environment Installation

No Unnecessary Cable Slack

Cost & Inventory Effective

Fiber Optic Midspan Closure

Patented



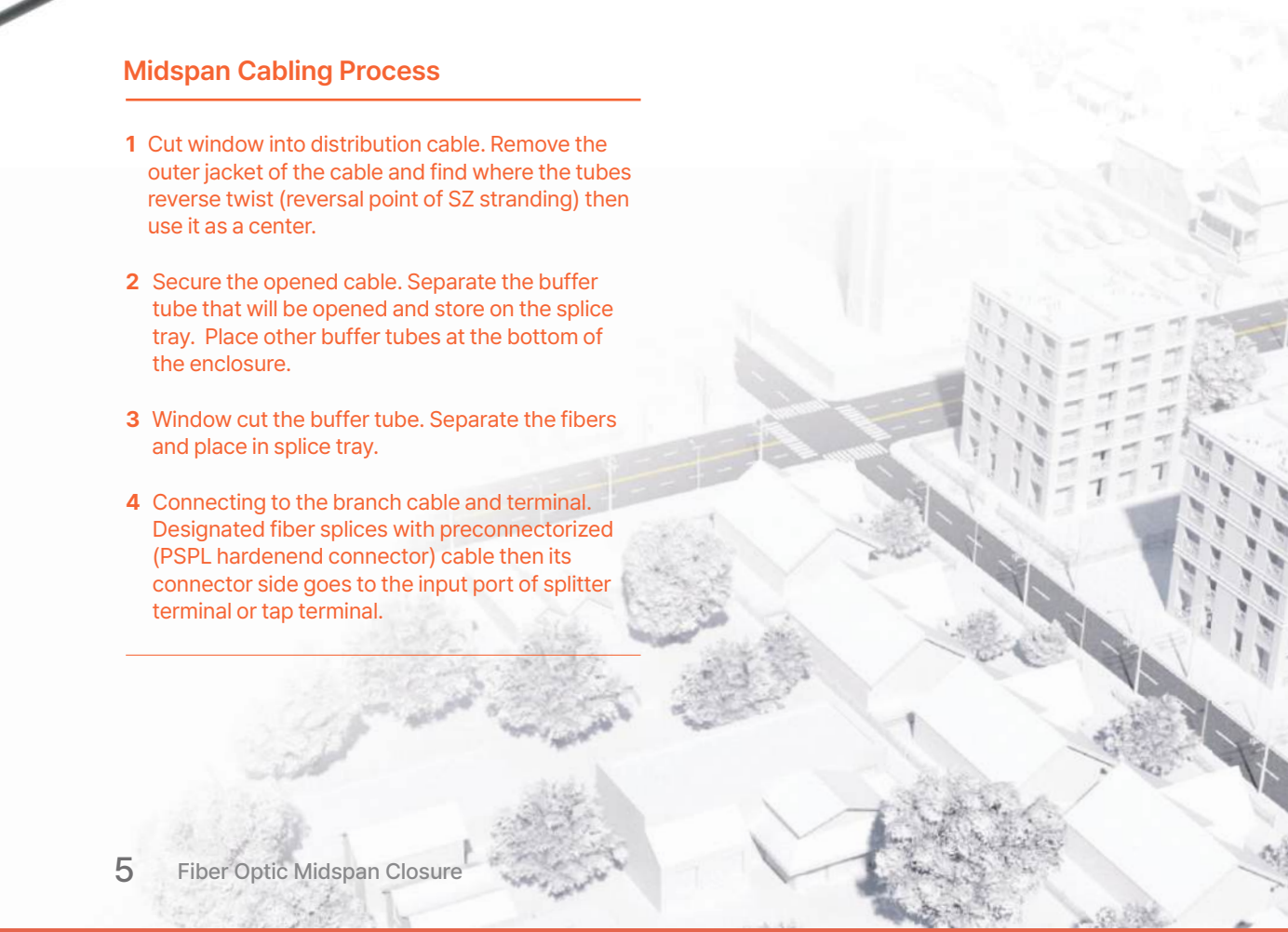
Midspan Cabling Process

1 Cut window into distribution cable. Remove the outer jacket of the cable and find where the tubes reverse twist (reversal point of SZ stranding) then use it as a center.

2 Secure the opened cable. Separate the buffer tube that will be opened and store on the splice tray. Place other buffer tubes at the bottom of the enclosure.

3 Window cut the buffer tube. Separate the fibers and place in splice tray.

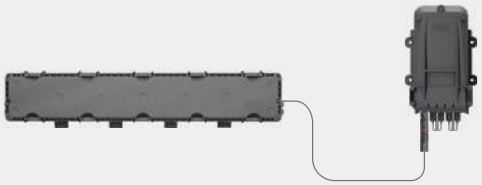
4 Connecting to the branch cable and terminal. Designated fiber splices with preconnectorized (PSPL hardenend connector) cable then its connector side goes to the input port of splitter terminal or tap terminal.



Product Description

UCL Swift's Midspan is designed to take specific fibers out of a distribution cable without damaging adjacent pass-through fibers, enhancing efficiency for FTTH OSP deployments.

Configuration



Distribution Cable In & Outlet	**Cable Size(Diameter)** 7.0~16mm	**Port** One port each In & Out
Branch Cable Port	**Branch Cable Size** Round 5.0mm or Flat 8.1×4.5mm	**Port** Two ports each at left and right side
Physical Dimension (mm)	**Width** : 570 **Depth** : 60	**Height** : 100
Splicing Capacity	**Number of Tray** One	**Tray Capacity** 12 Splices

Ordering Information

Part Number	Product Description
FOC-MS-VS01	Fiber Optic Midspan Closure VERSITILE M01
MG-ST00-A	Mounting gear, Strand Mounting Bracket
MG-ST00-B	Mounting gear, ADSS(Cable) Mounting Bracket

PSPL Hardened SPL(Splitter) Terminal

Push-Pull Mating Technology

Patented

Features and Benefits

1 Quick and simple access. Push-Pull mating technology provides easy terminal access versus conventional screw type hardened terminals.

2 Compact size versus conventional screw type terminals allows for use in handholes and pedestals where space may be limited.

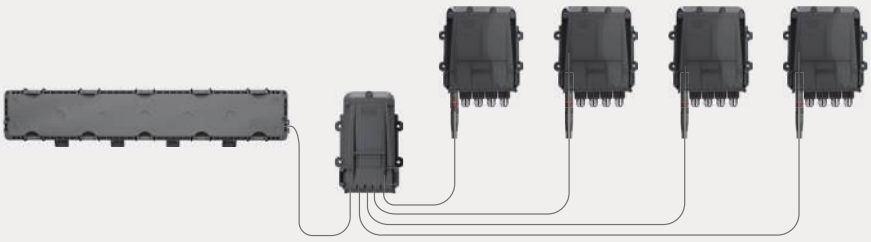
3 Designed to withstand the hazardous OSP environment, the rugged design optimizes terminal orientation when mounting, helping to minimize total drop cable length.

Product Description

UCL Swift's PSPL hardened terminals are designed to fit the diverse FTTH OSP environment. With Push-Pull mating technology and compact size, PSPL terminals offer quicker mating than screw type terminals and ease installation in small spaces.

The HODT-PSPL series of balanced splitter terminals utilize PLC splitters and are available with 2, 4, 8 and 16 output ports. All PSPL splitter terminals can be mounted to accommodate various site conditions, including pole, strand, wall and handhole.

Configuration

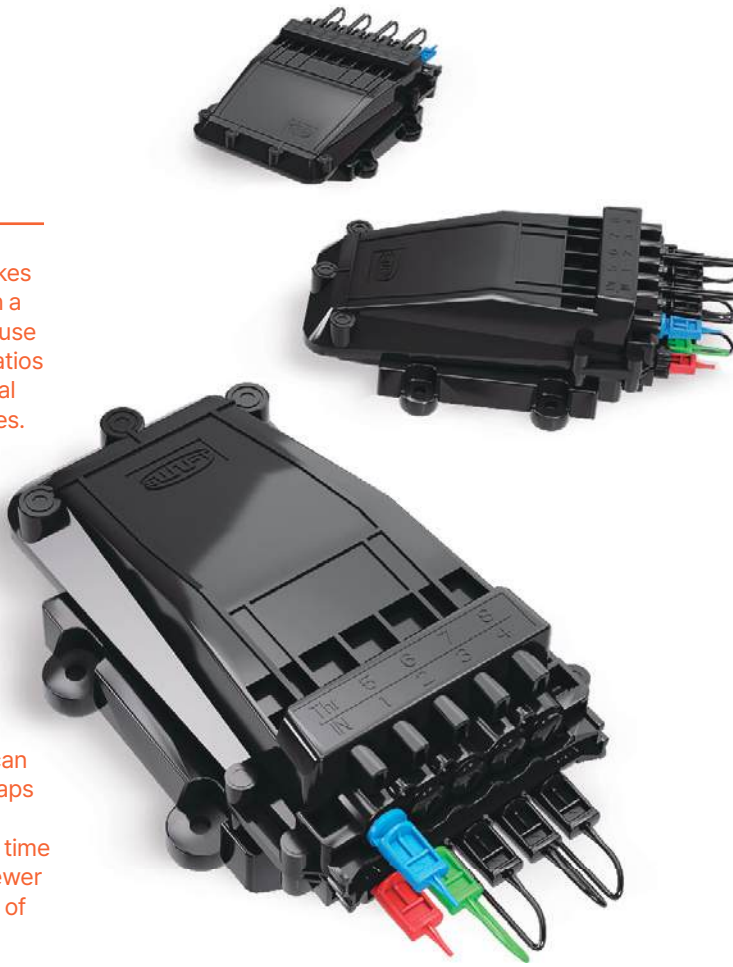


Part Number	HODT-PSPL-0102	HODT-PSPL-0104	HODT-PSPL-0108	HODT-PSPL-0116
Input Port	1 port PSPL			
Output Port	2 ports PSPL	4 ports PSPL	8 ports PSPL	16 ports PSPL
Distribution	1×2 PLC Splitter	1×4 PLC Splitter	1×8 PLC Splitter	1×16 PLC Splitter
Dimension (mm)	203×140×55 (HxWxD)	203×140×55 (HxWxD)	203×200×55 (HxWxD)	203×200×84 (HxWxD)
IP level	IP68			
IL(dB)	Max 4.1	Max 7.7	Max 10.7	Max 13.7
RL(dB)	min.60			

PSPL Hardened TAP Terminal

Patented

Push-Pull Mating Technology



Features and Benefits

1 UCL Swift's asymmetric optical tap solution takes the fiber efficiency concept a step further than a distributed splitter configuration. Through the use of signal splitting, taps with established split ratios permit the use of fewer fibers than conventional centralized and distributed splitter architectures.

2 Cost savings over conventional methods. Significant cost savings can be realized by minimizing fiber optic cable and devices. The distributed tap solution does not require a centralized cabinet for housing splitters, which may be expensive, and minimizes challenges related to obtaining permission from municipalities to build in the right-of-way.

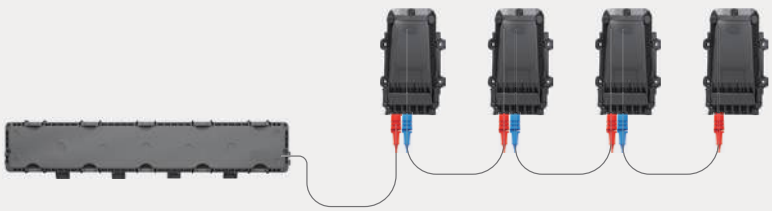
3 Easy and Quick troubleshooting. Technicians can easily check connections through fiber-optic taps with an optical time domain reflectometer. Tap architecture improves damage restoration time since customers' services are dependent on fewer fibers and can be replaced quickly in the event of a damaged cable.

Product Description

UCL Swift's PSPL hardened terminals are designed to fit the diverse FTTH OSP environment. With Push-Pull mating technology and compact size, PSPL terminals offer quicker mating than screw type terminals and ease installation in small spaces.

HODT-PSPL taps accommodate asymmetrical 1×2 FBT couplers and a 1xN PLC splitter in which the input signal is divided in two directions with signal directed to the Pass-Through port and signal directed to the PLC splitter where it is equally distributed to subscriber drop ports. These passive devices can accommodate all of the standard wavelengths of current and future Passive Optical Network (PON) technologies.

Configuration



Part Number	HODT-PSPL-4TAP	HODT-PSPL-8TAP	HODT-PSPL-16TAP
Input Port	1 port PSPL / Blue Cap		
Through-Port	1 port PSPL / Orange Cap		
Output Port	4 ports PSPL / Black Cap	8 ports PSPL / Black Cap	16 ports PSPL / Black Cap
TAP Value(dB)	22,21,19,17,15,14,13,12,7	22,20,19,18,17,16,15,14,11	20,19,18,14
Distribution	1×4 PLC Splitter	1×8 PLC Splitter	1×16 PLC Splitter
Dimension (mm)	203×140×84 (HxWxD)	203×140×84 (HxWxD)	203×200×84 (HxWxD)
IP level	IP68		

PSPL Hardened STUB Terminal

Patented

Push-Pull Mating Technology

Features and Benefits

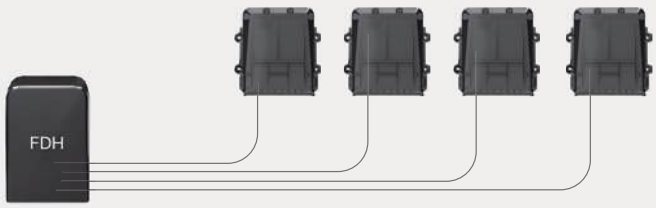
1. Quick and simple access. Push-Pull mating technology gives the field technician easier access to the terminal verses a screw-type conventional hardened terminal.
2. Compact size compared to conventional terminals. It is ideal for installation in small spaces such as handholes and pedestals.
3. Multiple environment installation. Designed to withstand the rugged outside plant environment and can be installed at the optimized position in order to minimize the total drop cable length.

Product Description

UCL Swift's PSPL hardened terminal series is designed to fit the diverse FTTH OSP environment with Push-Pull mating technology that provides an easy and quick mating process when compared to the screw-type connections of conventional hardened terminals. It's compact size improves accessibility to small spaces such as handholes and pedestals.

HODT-PSPL-000NST Stub terminal breaks out a multiple fibers input cable (Stub) into discrete single output ports in order to support P2P (Point to Point) application. Stub Terminal is installed at nearest point to the subscribers and the stub cable goes into the centralized point (FDH) or closure.

Configuration



Part Number	HODT-PSPL -0002ST	HODT-PSPL -0004ST	HODT-PSPL -0008ST	HODT-PSPL -0012ST	HODT-PSPL -0016ST
Input	Flat Cable (8.1×4.5), Length : 30~500meter				
Distribution	P2P (Point to Point)				
Output	2 ports PSPL	4 ports PSPL	8 ports PSPL	12 ports PSPL	16 ports PSPL
Dimension (mm)	203×140×55 (HxWxD)	203×140×55 (HxWxD)	203×200×55 (HxWxD)	203×140×84 (HxWxD)	203×200×84 (HxWxD)
IP level	IP68				
IL(dB)	Max 0.5				
RL(dB)	min.60				

Hardened PSPL Accessories

Pole Mounting Bracket

Strand Mounting Bracket

Cable Mounting Bracket

Swing Bracket

Ordering Information

SPL Terminal

Part Number	Product Description
HODT-PSPL-0102-SA-SA	Hardened PSPL Splitter Terminal, 1×2 PLC Splitter, Push-Pull mating, with mounting bracket for wall and handhole
HODT-PSPL-0104-SA-SA	Hardened PSPL Splitter Terminal, 1×4 PLC Splitter, Push-Pull mating, with mounting bracket for wall and handhole
HODT-PSPL-0108-SA-SA	Hardened PSPL Splitter Terminal, 1×8 PLC Splitter, Push-Pull mating, with mounting bracket for wall and handhole
HODT-PSPL-0116-SA-SA	Hardened PSPL Splitter Terminal, 1×16 PLC Splitter, Push-Pull mating, with mounting bracket for wall and handhole

TAP Terminal

Part Number	Product Description
HODT-PSPL-4TAP00-SA-SA	Hardened PSPL TAP Terminal, Tap value : 00dB, 4 ports Tap drop, Push-Pull mating with mounting bracket for wall and handhole
HODT-PSPL-8TAP00-SA-SA	Hardened PSPL TAP Terminal, Tap value : 00dB, 8 ports Tap drop, Push-Pull mating with mounting bracket for wall and handhole
HODT-PSPL-16TAP00-SA-SA	Hardened PSPL TAP Terminal, Tap value : 00dB, 16 ports Tap drop, Push-Pull mating with mounting bracket for wall and handhole

STUB Terminal

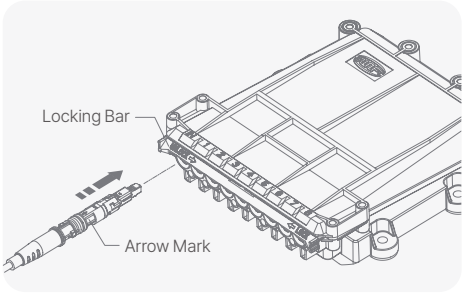
Part Number	Product Description
HODT-PSPL-0002-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P) Point to Point(P2P), Input Stub : 8145(2fibers), L : length, N : without connector, Drop : 2 ports PSPL
HODT-PSPL-0004-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P) Point to Point(P2P), Input Stub : 8145(4fibers), L : length, N : without connector, Drop : 4 ports PSPL
HODT-PSPL-0008-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P) Point to Point(P2P), Input Stub : 8145(8fibers), L : length, N : without connector, Drop : 8 ports PSPL
HODT-PSPL-0012-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P) Point to Point(P2P), Input Stub : 8145(12fibers), L : length, N : without connector, Drop : 12 ports PSPL
HODT-PSPL-0016-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P) Point to Point(P2P), Input Stub : 8145(16fibers), L : length, N : without connector, Drop : 16 ports PSPL

Accessories

Part Number	Product Description
MG-PL00-A	Mounting gear, Pole bracket (Wire band)
MG-ST00-A	Mounting gear, Strand Mounting Bracket
MG-ST00-B	Mounting gear, ADSS(Cable) Mounting Bracket
MG-SW00-A	Mounting gear, Swing bracket, for 12ch and 16ch Terminal
MG-SW00-B	Mounting gear, Swing bracket, for 8ch (2 layer) Terminal

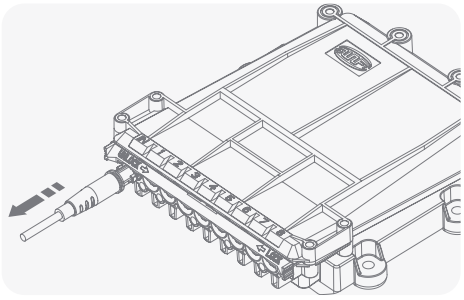
How does the PSPL connector work?

Connecting
Hardened Push-Pull Connector to HODT-PSPL



1 Slide the locking bar to the UNLOCK direction.

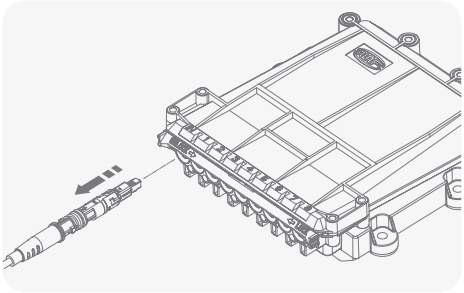
2 Make sure the connector's "Arrow mark" is facing up before inserting the connector into an input/output port.



3 Verify a secure connection by pulling back on the connector. It should stay in place.

4 Slide the locking bar back to the LOCK direction.

Disconnecting
Hardened Push-Pull Connector to HODT-PSPL



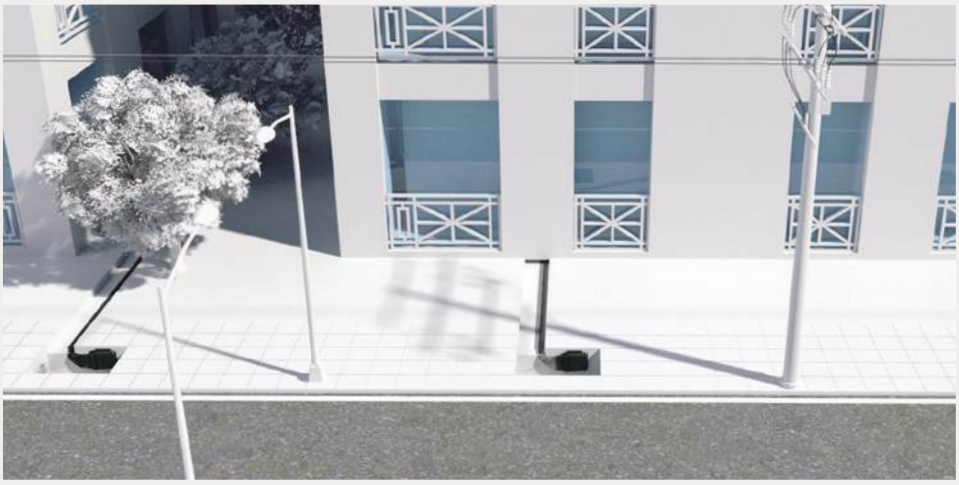
1 Slide the locking bar to the UNLOCK direction.

2 Push the connector forward then pull it back.

3 Slide locking bar back to the LOCK position to secure the rest of the ports.

Compact Size & Diverse Scalability

Aerial installation with Pole and Strand Bracket



Handhole and Manhole Installation

PSPL type Hardened FSOC

Patented

Push-Pull Mating & Small Form Factor

Product Description

UCL Swift's PSPL Hardened FSOCs are field-installable hardened connectors terminated on UCL's All-In-One fusion splicer models KF4A-HDC and K33A-HDC. Field installation of connectors eliminates unnecessary cable slack reducing costs and making maintenance easier.

UCL Swift's Hardened Fusion SOC (SC type) is designed for Push-Pull mating and is field-installable with various cable constructions including round, flat and oval drop cable. The PSPL connector mates with UCL Swift's PSPL hardened terminal.

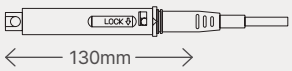
KF4A-HDC

K33A-HDC

Features and Benefits

1. Quick and easy connections utilizing PushPull mating technology with PSPL terminals.
2. Custom length cables eliminate cable shorts and excess slack.
3. Fusion splice-on connectors provide better optical performance than mechanical splice connectors.
4. Cost and inventory effective compared to pre-connectorized solutions.

Specification

General	**Dimension**   ø 17.5	
	Connector Type SC/UPC & SC/APC	**Fiber Type** G.657.A1 or A2
Optical Performance	**Single mode (OS1 & OS2)**	
	Insertion Loss Typ. 0.15db, Max 0.30db	Return Loss min. 55dB(UPC), 65dB(APC)
Mechanical Properties	**Plug/Adapter tensile load** 0 degree, 11.3 kgf, 60 sec	**Plug/Adapter side pull** 90 degree, 6.8 kgf, 60 sec
Temperature range	**Operation** -40°C to 75°C	

Products for Installation

Classification	Product No.	Description	Cable Type
Fusion Splicer	KF4A-HDC	UCL Fusion Splicer, Cladding Splicer	All
	KF33A-HDC	UCL Fusion Splicer, Core Splicer	
FSOC Holder	HF4-SC/FC	FSOC-SC&FC Holder, Left on the KF4A-HDC	All
	HS-SC/FC	FSOC-SC&FC Holder, Left on the K33A-HDC	
Cable Holder	SST-900L	8.1×4.5mm cable, 900um buffer on the holder	8.1×4.5mm flat drop
	500-900	5.0mm round cable, 900um buffer on the holder	5.0mm round
	5020-250	5.0×2.0mm flat and self-supporting cable, 250um buffer on the holder	5.0×2.0mm
	ROC-900	5.4×3.0mm cable, 900um buffer on the holder	5.4×3.0mm
Assembly Gear	5000/5020-AG	Assembly gear for CR&PSPL-5000, CR&PSPL-5020	5.0×2.0mm round
	8145/0000-AG	Assembly gear for CR&PSPL-8145	8.1×4.5mm flat drop

Related Products

Classification	Product No.	Description
SPL Terminal	HODT-PSPL-0108-SA-SA	Hardened PSPL Splitter Terminal, 1×4 PLC Splitter, Push-Pull mating, with mounting bracket for wall and handhole
TAP Terminal	HODT-PSPL-8TAP00-SA-SA	Hardened PSPL TAP Terminal, Tap value : 00dB, 8 ports Tap drop, Push-Pull mating with mounting bracket for wall and handhole
Stub Terminal	HODT-PSPL-0008-ST/4/L/N-SA	Hardened PSPL Stub Terminal, Point to Point(P2P), Input Stub: 8145(8fibers), L: length, N: without connector, Drop: 8 ports PSPL

Ordering Information

Part Number	Product Description
HFSOC-A1-SC/APC-PSPL-5430	G.657.A1, SC/APC , PushPull type, Assembly with 5.4×3.0mm cable
HFSOC-A1-SC/APC-PSPL-8145	G.657.A1, SC/APC , PushPull type, Assembly with 8.1×4.5mm cable
HFSOC-A1-SC/APC-PSPL-5020	G.657.A1, SC/APC , PushPull type, Assembly with 5.0×2.0mm cable
HFSOC-A1-SC/APC-PSPL-5000	G.657.A1, SC/APC , PushPull type, Assembly with 5.0mm cable
HFSOC-A1-SC/APC-PSPL-6100	G.657.A1, SC/APC , PushPull type, Assembly with 6.1mm cable

CR type Hardened FSOC

Patented

Product Description

UCL Swift's CR-type Hardened FSOC connectors are field-installable hardened connectors which can be terminated on UCL Swift's All-In-One fusion splicer models KF4A-HDC and K33A-HDC. It reduces costs and makes maintenance easier.

UCL Swift's Hardened Fusion Splice-On SC Connector is designed to be field-installable with various shapes of drop cable, including round, flat and oval.

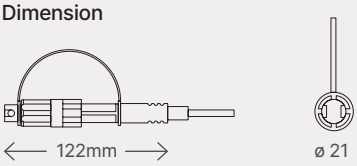
Features and Benefits

1. Fusion splice-on connectors provide better optical performance than mechanical splice connectors.
2. Custom length cables eliminate cable shorts and excess slack.
3. Cost and inventory effective compared to pre-connectorized solutions.

KF4A-HDC

K33A-HDC

Specification

General	**Dimension**  	
	Connector Type SC/APC	
	Fiber Type OS2 (F.657.A1 or A2)	**Termination** Fusion SOC
Optical Performance	**Single mode (OS1 & OS2)** Insertion Loss Typ. 0.15db, Max 0.30db Return Loss min. 55dB(UPC), 65dB(APC)	
Mechanical Properties	**Plug/Adapter tensile load** 0 degree, 11.3 kgf, 60 sec	**Plug/Adapter side pull** 90 degree, 6.8 kgf, 60 sec
Temperature range	**Operation** -40°C to 75°C	

Related Products

Classification	Product No.	Description	Cable Type
Fusion Splicer	KF4A-HDC	UCL Fusion Splicer, Cladding Splicer	All
	K33A-HDC	UCL Fusion Splicer, Core Splicer	
FSOC Holder	HF4-SC/FC	FSOC-SC&FC Holder, Right on KF4A-HDC	All
	HS-SC/FC	FSOC-SC&FC Holder, Right on K33A-HDC	
Cable Holder	SST-250L	8.1×4.5mm cable, 250um fiber on the holder	8.1×4.5mm
	SST-900L	8.1×4.5mm cable, 900um fiber on the holder	8.1×4.5mm
	ROC-900	5.4×3.0mm cable	5.4×3.0mm
Slitter	SL-8145/5020	Slitting outer jacket	8.1×4.5mm, 5.0×2.0mm
Stripper	ST-5020	Stripping outer jacket	5.0×2.0mm
	RCS-114	Stripping outer jacket	5.0mm, 5.8mm, 6.1mm
Crimping	CRTL-CR-PSPL	Crimping tool for CR & PSPL type	All
Heating tube	HDC Heater	Heater for shrinking tube	All

Ordering Information

Part Number	Product Description
HFSOC-A1-SC/APC-CR-8145	G.657.A1, SC/APC, CR type, Assembly with 8.1×4.5mm cable
HFSOC-A1-SC/APC-CR-5430	G.657.A1, SC/APC, CR type, Assembly with 5.4×3.0mm cable
HFSOC-A1-SC/APC-CR-5020	G.657.A1, SC/APC, CR type, Assembly with 5.0×2.0mm cable
HFSOC-A1-SC/APC-CR-5000	G.657.A1, SC/APC, CR type, Assembly with 5.0mm cable
HFSOC-A1-SC/APC-CR-5800	G.657.A1, SC/APC, CR type, Assembly with 5.8mm cable
HFSOC-A1-SC/APC-CR-6100	G.657.A1, SC/APC, CR type, Assembly with 6.1mm cable

Hardened Connector for Multi-Fiber (MPO & LC Duplex)

Hardened Multi-Fiber Connectors for FTTA

Patented

Features and Benefits

1 Customers use these hardended products when deploying in a variety of environments, including oil/gas processing plants, high traffic factory lines and cable TV broadcast field operations and in other environments where a more robust connection is needed.

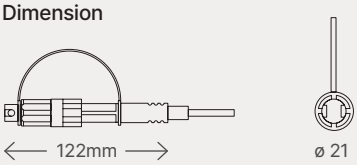
2 UCL Swift's Hardened connectors provide fully enclosed fiber optic connections. It's waterproof characteristics make is well suited for environments where water is likely to occur.

3 The Connector's superior durability makes it a perfect solution for Fiber To The Antenna. (FTTA)

Product Description

UCL Swift's multi-fiber hardened connector is based on the standard LC or MPO connector. The connector housing ensures mechanical protection while at the same time protecting against harsh weather conditions.

Specification

General	**Dimension**  **Connector Type** MPO/APC & LC/APC **Fiber Type** OS2 (F.657.A1 or A2)	
Optical Performance	**Single mode (OS1 & OS2)** Insertion Loss Typ. 0.15db, Max 0.30db Return Loss min. 55dB(UPC), 65dB(APC)	
Mechanical Properties	**Plug/Adapter tensile load** 0 degree, 11.3 kgf, 60 sec	**Plug/Adapter side pull** 90 degree, 6.8 kgf, 60 sec
Temperature range	**Operation** -40°C to 75°C	

Ordering Information

Part Number	Product Description
HDC-A1-MPO/APC-CR-5000-Length	Hardend Connector, G.657.A1, MPO/APC type, CR mating, 5.0mm cable, Length : 10~200meter
HDC-A1-LC/APC-CR-5000-Length	Hardend Connector, G.657.A1, LC/APC type, CR mating, 5.0mm cable, Length : 10~200meter

Field Installable FSOC MPO in Data Center

Ribbonizing & Splicing within 7 minutes

Product Desciption

UCL SWIFT's MPO FSOC is field installable on the KR12A fusion splice and provides a fast, reliable, permanent field termination that complies with international standards. This technology can help minimize project costs and enhance project efficiency by eliminating the storage of unwanted cable slack.

Ribbonizing Tool Kit

KR12A

Features and Benefits

1 Eliminates cable shorts and unnecessary slack. Simple and fast ribbonizing kit (RBN12-FR-ST-Kit), takes about 7 minutes.

2 Easy and fast installation with the KR12A fusion splicer. Fusion splicing helps facilitate rapid deployment of high density cabling in a data center.

3 Premium grade MT-ferrule assures low insertion loss in tight optical budgets and in high-speed network environments.

Specification

General	**Connector Type** MPO/UPC and MPO/APC	**Fiber Type** OS1,OS2 & OM1, OM2, OM3, OM4
	Cable 3.0mm or Ribbon fiber	**Boot** Soft Boot
Optical Performance	**Single mode (OS1 & OS2)** Insertion Loss Typ. 0.15db, Max 0.35db Return Loss min. 60dB	**Multi mode (OM1, OM2, OM3 & OM4)** Insertion Loss Typ. 0.15db, Max 0.35db Return Loss min. 25dB
Intermateability	**Standard** IEC 61754-7, TIA/EIA-604-5	
Reliability	**Standard** TIA-568-C.3	
Material Compliance	**Standard** RoHS, UL94V-0	

Related Products

Classification	Product No.	Description
Fusion Splicer	KR12, KR12A	UCL Fusion Splicer, multi fibers up to 12 fibers
FSOC MPO Holder	MPO-10	FSOC MPO Holder, Right on KR12 and KR12A
Ribbon Holder	H7-12-10	Ribbon fiber Holder, left on KR12 and KR12A
Ribbonizing KIT	RBN12-FR-ST-KIT	12 fibers ribbonnizing kit

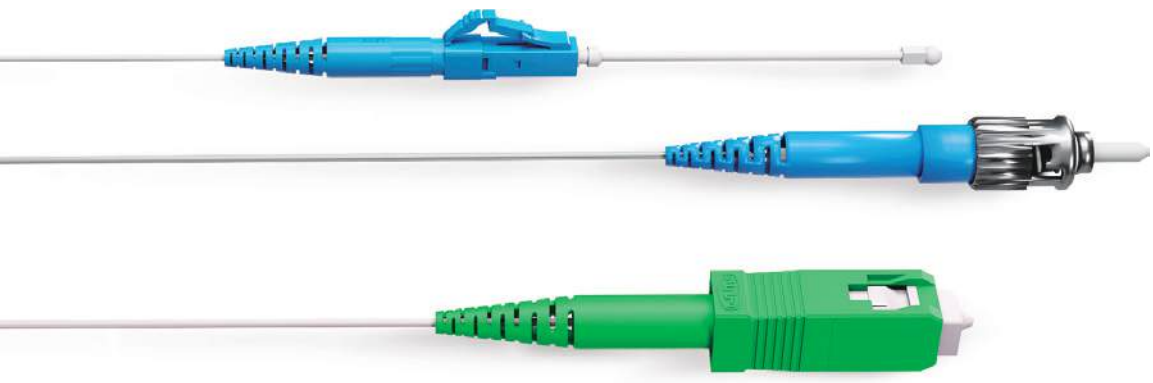
Ordering Information

Part Number	Product Description	Legnth (mm)
FSOC-S2-MPO/APC-P-25-SB-30	Field Installable MPO/APC type, OS2 fiber, Premium grade, for 3.0mm cable	60
FSOC-M3-MPO/UPC-P-25-SB-30	Field Installable MPO/UPC type, OM3 fiber, Premium grade, for 3.0mm cable	60
FSOC-S2-MPO/APC-P-25-SB-RB	Field Installable MPO/APC type, OS2 fiber, Premium grade, for 12 fiber ribbon cable	42
RBN12-FR-ST-KIT	Ribbonizing Tool Kit, 12 fibers	

FSOC SC, LC and ST Soft Boot 3.0mm & 0.9mm Cable

Product Desciption

UCL Swift's SC, LC and ST FSOC (Fusion Splice-On Connector) are field installable and provide easy, reliable, permanent terminations while complying with international standards. Fusion splice-on connectors provide a more stable and higher performance termination than mechanical field installable connectors. Terminations can quickly be performed using UCL Swift's advanced fusion splicers.



KF4A-HDC

Features and Benefits

1 The fusion splice-on connector is a quick, easy and reliable solution for the last mile of FTTH.

2 It allows installers to reduce service delivery, operation, and maintenance time.

3 FSOCs help eliminate excess cable length. They are cost-effective when compared to pre-terminated drop cables.

Specification

General	**Connector Type** SC/UPC & SC/APC, LC/PC & LC/APC, ST/UPC & ST/APC	**Fiber Type** SM & MM
	Cable 0.9 / 3.0(2.0) mm	**Boot** Soft Boot
Optical Performance	**Single mode (OS1 & OS2)** Insertion Loss Typ. 0.15db, Max 0.30db Return Loss min. 55dB(UPC), 65dB(APC)	**Multi mode (OM1, OM2, OM3 & OM4)** Insertion Loss Typ. 0.10db, Max 0.25db Return Loss min. 30dB
Intermateability	**Standard** SC : IEC 61754-4, TIA/EIA-604-3 LC : IEC 61754-20, TIA/EIA-604-10 ST : IEC 61754-2, TIA/EIA-604-2	
Reliability Compliance	**Standard** TIA-568-C.3 & GR-1081-CORE (Environmental Requirement)	
Material Compliance	**Standard** RoHS, UL94V-0	

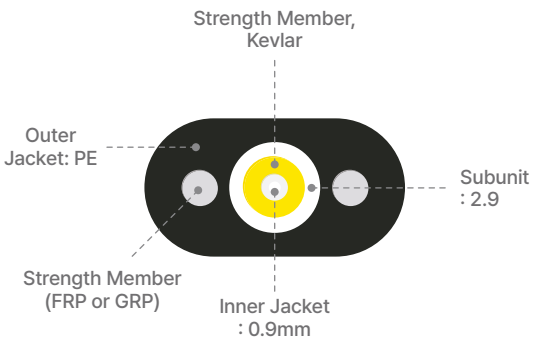
Related Products

Classification	Product No.	Description
Fusion Splicer	KF4, KF4A	UCL Fusion Splicer, Cladding Splicer
	K33, K33A	UCL Fusion Splicer, Core Splicer
FSOC Holder	HF4-SC/FC	FSOC SC & FC Holder, Right on KF4 and KF4A
	HF-SC/FC	FSOC SC & FC Holder, Right on K33 and K33A
	HF4-ILC	FSOC LC Holder, Right on KF4 and KF4A
	HF4-SC/FC	FSOC ST Holder, Right on KF4 and KF4A
Cable Holder	HS-2.5F	Cable Holder for 2.0mm and 3.0mm
	HS-900	Cable Holder for 900um tight buffered cable, Left
	LS-900	Cable Holder for 900um loosed tube cable, Left
Slitter	SL-3000	Slitting 2.0mm and 3.0mm jacket

Ordering Information

Part Number	Product Description	Legnth (mm)
FSOC-A1-SC/APC-25-SB-09	SC/APC type, G.657.A1, 25mm sleeve, 0.9mm Softboot	60
FSOC-A1/P-SC/APC-25-SB-09	SC/APC type, G.657.A1, Pre-Cleaved, 25mm sleeve, 0.9mm Softboot	60
FSOC-A2-SC/APC-25-SB-30	SC/APC type, G.657.A2, 25mm sleeve, 3.0mm Softboot	65
FSOC-A2/P-SC/APC-25-SB-30	SC/APC type, G.657.A2, Pre-Cleaved, 25mm sleeve, 3.0mm Softboot	65
FSOC-A1-LC/APC-25-SB-09	LC/APC type, G.657.A1, 25mm sleeve, 0.9mm Softboot	55
FSOC-A2-LC/APC-25-SB-20	LC/APC type, G.657.A2, 25mm sleeve, 2.0mm Softboot	56
FSOC-A1-ST/APC-25-SB-09	ST/APC type, G.657.A1, 25mm sleeve, 0.9mm Softboot	59
FSOC-A2-ST/APC-25-SB-30	ST/APC type, G.657.A2, 25mm sleeve, 3.0mm Softboot	65

Flat All Dielectric 8.1×4.5mm Drop Cable



Product Desciption

UCL Swift's all-dielectric flat FTTH drop cable is designed for installation in various outside environments including direct bury, conduit and aerial self-supporting applications.

Features and Benefit

1 Ruggedized design appropriate for outdoor environments including underground, conduit, and aerial.
2 No bonding and grounding requirements.
3 Easy detection in an underground installation environment (Toning Conductor).

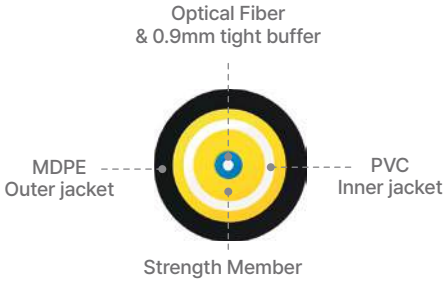
Cable Configuration

Fiber & Inner Sheath	**Fiber type & Count** G.657.A2, 1Core **Sub-unit & Inner Jacket Size** 2.9mm & 0.9mm	**Sheath Material & Color** Sub-unit and Inner Jacket : PVC & White
Strength Member	**Material** FRP or GRP & 2EA	
Outer Sheath	**Material & Color** MDPE & Black	
Physical Dimension (mm)	**Width** 8.1+/-0.2	**Height** 4.5+/-0.2
Environmental and Mechanical Performance	**Tensile Load** Short Term : 1350N, Long Term : 400N **Bending Radius** 80mm	**Crush Resistance** 2000N/100mm **Temperature** Installation : -30 ~ +70°C Operating : -40 ~ +70°C
Detecting Option	**Toning Conductor** 24 AWG Copper	**Cable Size with Conductor** 10.2 × 4.5mm

Ordering Information

Part Number	Product Description
DRC-PE8145B-FR00-P29KVP09-A201	Flat, 8.1×4.5m, MDPE outer jacket, 2.9mm subunit, 0.9mm tight buffered inner jacket, G.657.A2 1core
DRC-PE1045B-FRTC-P29KVP09-A201	Flat with Toning conductor(24AWG), 10.2×4.5m, MDPE outer jacket, 2.9mm subunit, 0.9mm tight buffered inner jacket, G.657.A2 1 core

Double Jacket 5.0mm Round Drop Cable



Product Desciption

UCL Swift's Double jacket FTTH Drop cable is designed for outdoor and indoor drop cable application.
5.0mm MDPE jacket is for outdoor environment and 2.7mm PVC jacket is fit for indoor cabling requirement.

Features and Benefit

1 Easy Stripping with rip cord.
2 Ruggedized design for outdoor environment and safe material for indoor cabling application.
3 G.657.B3 fiber is available for decrease macro bending loss.

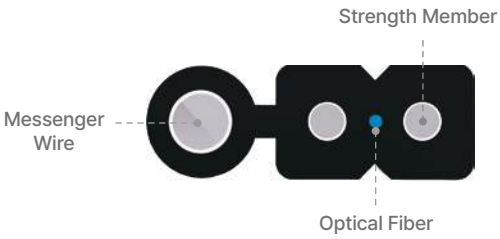
Cable Configuration

Fiber	**Fiber type & Count** G.657.A1, 1Core **Inner Jacket** 900um tight buffered tube	**Jacket Material & Color** LSZH, Blue
Strength Member	**Material** Aramid Yarn	
Double Sheath	**Material (1st and 2nd)** PVC and MDPE	**Color (1st and 2nd)** White and Black
Physical Dimension Diameter (mm)	**Inner Jacket** 3.0 ±0.2	**Outer Jacket** 5.0 ±0.2
Environmental Performance	**Tensile Load** Max. 1000N **Temperature** Installation : -10 ~ +60°C Operating : - 40 ~ +60°C	**Crush Resistance** 800N/100mm **Bending Radius** Short Term : More than 20xD Long Term : More than 10xD

Ordering Information

Part Number	Product Description
DRC-RD-PE5000B-PV270901	5.0mm Double jacket drop cable, G.657.A1 fiber, 1 core, PVC & MDPE, Aramid yarn as strength member

Self-Supporting 5.0×2.0mm Drop Cable



Product Desciption

UCL Swift's figure 8 FTTH Drop cable (Rectangle type) is designed for installing in duct and from the enclosure or box on the pole to the subscriber's demarcation box.

Features and Benefit

1. Compact size for installing in conduit
2. Self-supporting construction with stranded wire available to enhance flexibility
3. Easy handling and stripping without special tools

Cable Configuration

Fiber	**Fiber type & Count** G.657.A2 & 1 or 2 Cores	**Jacket Material & Color** Blue / Blue, Orange
Strength Member	**Material** FRP	
Messenger Wire	**Material** Galvanized Steel Wire / Solid	
Outer Sheath	**Material** LSZH	**Color** Black
Physical Dimension Diameter (mm)	5.0×2.0 ±0.2	
Environmental Performance	**Tensile Load** Max. 600N	**Crush Resistance** 500N/100mm
	Temperature Installation : -10 ~ +60°C Operating : - 40 ~ +60°C	**Bending Radius** Short Term : More than 20xD Long Term : More than 10xD

Ordering Information

Part Number	Product Description
DRC-LZ5020B-A1B01-FR-SL	5.0×2.0mm Drop cable, Black, LSZH, G.657.A1 fiber, 1core FRP strength member, Solid messenger wire
DRC-LZ5020B-A2B02-FR-ST	5.0×2.0mm Drop cable, Black, LSZH, G.657.A2 fiber, 2core FRP strength member, Stranded messenger wire drop

Indoor Rosette Rotatable Storage with 0.9mm Fiber

Product Desciption

UCL's rotatable rosette is used for indoor cable distribution. The user can turn the fiber storage wheel to adjust the length of the cable according to the actual needs.

Features and Benefit

1. Small size, lightweight and convenient usage
2. Accommodate up to 0.9mm itight buffered fiber
3. ABS material, fireproof and dust-proof

Configuration

	0.9mm tight buffered cable with preconnectorized standard SC connectors on the both ends and cable is stored on the rotatable wheel in the box	
Fiber	**Fiber type** G.657.A1 or A2	**Jacket Size** 0.9mm
	Jacket Color Transparent	**Jacket Material** Nylon
Physical Dimension	**Cable length (m)** 40	**WxHxD (mm)** 93×83×29
Performance	**Insertion Loss** Max 0.30db	**Return loss** min. 50(UPC) and 60(APC)
	Temperature Operating : -40 ~ +70°C	

Ordering Information

Part Number	Product Description
IDR-RT-09NY-SC/APC-01	Indoor rotatable rosette with 0.9mm tight buffered cable 40meter, SC/APC type, SC green adapter 1port
IDR-RT-09NY-SC/UPC-01	Indoor rotatable rosette with 0.9mm tight buffered cable 40meter, SCUPC type, SC blue adapter 1port

SWIFT ALL-IN-ONE Fusion Splicer

Patented

Product Desciption

The UCL-Swift KF4A-HDC (cladding alignment) and K33A-HDC (core alignment) splicers are designed for field installation of PSPL and CR type Hardened FSOCs. These hjghly advanced splicers provide all 5 major fusion splicing steps in one unit.

These splicers are the best solution for Hardened Fusion Splice On Connector (HFSOC) installation in FTTH network applications. Fusion splice-on connectors eliminate potential fatal issues sometimes related to conventional mechanical splice-on connectors.

ALL-IN-ONE, 5 Functions in 1 unit

1	2	3	4	5
Stripping	**Cleaning**	**Cleaving**	**Splicing**	**Sleeving**
No scratches from heated stripping	One-touch pump	Single-action cleaving	Perfect splice after splicing fiber	Increased productivity from the built-in sleeving unit

Features and Benefits

1 Fast and simple Installations. All-In-One technology provides the field technician a quick, simple and reliable terminating method.

2 Excellent Reliability. No damage on the stripped fiber compared with using manual stripper.

3 High Durability. Electrode life is up to 38,000 splices and Rotating blade life is up to 75,000 fibers(optional up to 110,000 fibers).

Specification

KF4A-HDC

Dimension (mm)
132(W) x 212(L) x 73(H)

Fiber Alignment
Active Clad Alignment

Applicable Fibers
SM(G.652, G.653, G.655, G.657A1,2, B2,B3, G.654E),MM(G.651)

Fiber Count
Single fiber

Splicing time
Typical 7 sec with SM

Operating
Altitude : up to 5,000m above sea level,
Temp. : -10~50 degree,
Humid. : 0~95%

Storage
Temp. : 40~80 degree,
Humid. : 0~95%

Battery
3400mAh

Electrode life
Up to 38,000 splices

Rotating blade life
75,000 fibers
(Optiona lup to 110,000 fibers)

K33A-HDC

Dimension (mm)
136(W) x 215(L) x 137(H)

Fiber Alignment
IPAAS Core Alignment

Applicable Fibers
SM(G.652, G.653, G.655, G.657A1,2,B2,B3, G.654E),MM(G.651)

Fiber Count
Single fiber

Splicing time
Typical 6 sec (Quick Mode)

Operating
Altitude : up to 5,000m above sea level,
Temp. : -10~50 degree,
Humid. : 0~95%

Storage
Temp. : 40~80 degree,
Humid. : 0~95%

Battery
6000mAh

Electrode life
Up to 18,000 splices

Rotating blade life
75,000 fibers
(Optional up to 110,000 fibers)

KR12A

Dimension (mm)
136(W) x 215(L) x 132(H)

Fiber Alignment
Ribbon

Applicable Fibers
SM(G.652), MM(G.651), DS(G.653), NZDS(G.655)

Fiber Count
Single fiber, 2~12 Ribbon fiber

Splicing time
Typical 20 sec with standard SM (ITU-T G.652)

Operating
Altitude: 0~3,660m above sea level
Temperature: -10°C~50°C,
Humidity: 0~95%

Storage
Temperature: -40°C~80°C
Humidity: 0~95%

Battery
6000mAh

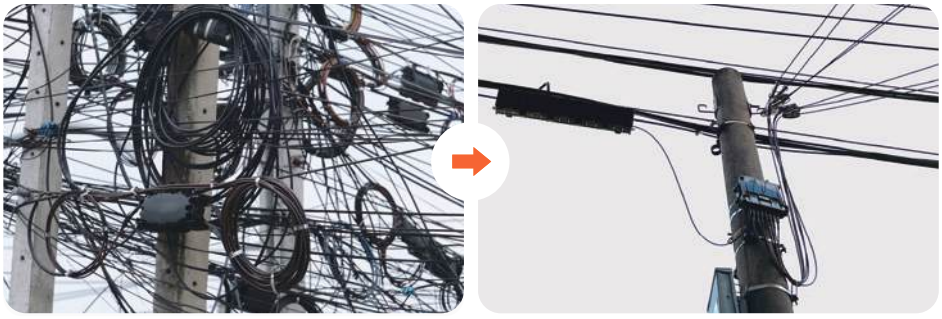
Electrode life
Up to 1,500 splices

Rotating blade life
6,200 fibers

SWIFT-FX.
The Next Technology for Fiber to the Home.

No Excess Slack. Sustainable. Cost Effective.

Cables are built to length on-site without any unnecessary coils and wasted cable. Not only is the installation cleaner and easier to service, it minimizes inventory costs and reduces the environmental impact related to waste.



Before
Pre-Connectorized Drop

After
SWIFT-FX Solution

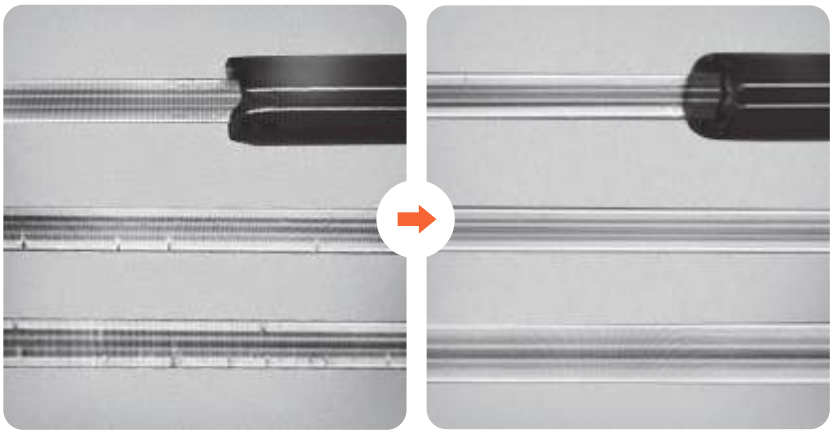
Deploy with Speed and Ease.

On-Site Fusion Splicing delivers reliable, long-term performance.

Cross-section of PSPL connector

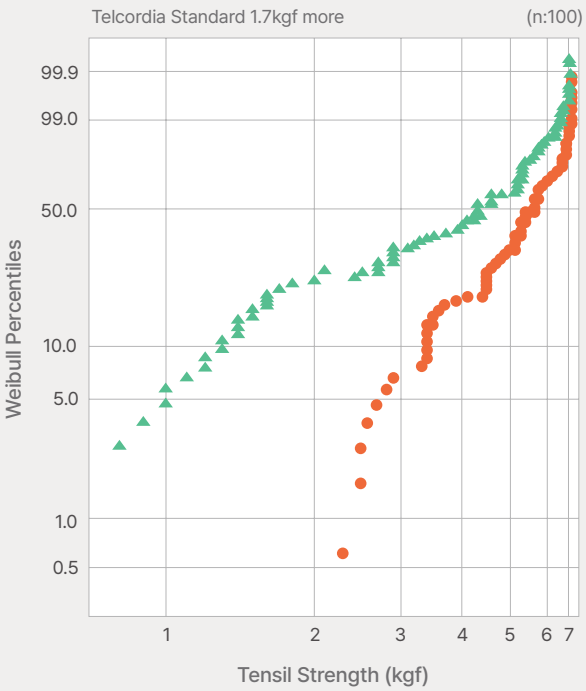
Improved Performance & Reliability.

UCL Swift thermal auto stripping technology effectively eliminates the scratches and cracks typically associated with manual mechanical stripping.



Mechanical Stripping

SWIFT Auto Thermal Stripping



Auto Thermal Stripper Tensil Strength Test

UCL Swift's Auto Thermal Stripper shows excellent tensile strength when compared to the mechanical stripping method.

- UCL Swift Auto Thermal Stripping
- Mechanical Stripping

Contents

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