

# Technical Specifications

## SWIFT-FX PSPL 8-Port TAP Terminal

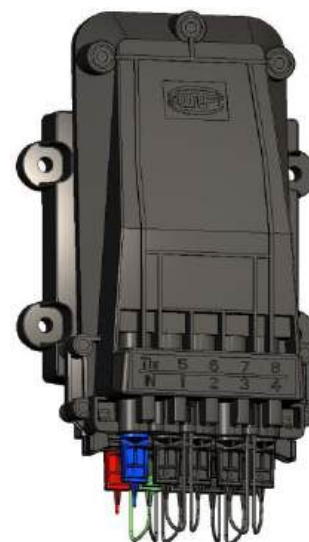
### *HODT-PSPL-8TAP-SA-SA*

Mating method	Optical TAP	Distribution	Connector type
Push-Pull type	1x2 FBT	1x8 PLC Splitter	SC/APC

## 1. General

UCL's PSPL hardened terminal series are designed to fit the diverse FTTH OSP environment with Push-Pull mating technology that gives easy and quick mating process comparing with screw type connecting mechanism of conventional hardened terminal and compact size which enhances the accessibility into the small space facility

HODT-PSPL-8TAP series accommodate asymmetrical 1x2 FBT coupler and 1x8 PLC Splitter that one input signal is divided two direction, one goes to the Pass-Through port and the other goes input PLC splitter then it distributes to the 8 subscribers. Those passive devices pass all the standard wavelengths of current and future Passive Optical Network (PON) technologies



## 2. Features and Benefits for TAP Architecture

- *PON design with minimal fiber use*

Optical tap solution takes the fiber efficiency concept a step further than a distributed splitter because much less fibers are required than conventional method, centralized and cascaded star architecture

- *Cost saving over conventional methods*

Significant cost savings from minimizing fiber materials and this solution does not require a centralized cabinet for housing splitters which may be expensive and challenging to get permission from municipalities to build in the right-of-way.

- *Easy and Quick troubleshooting*

Technicians can easily check connections through fiber-optic taps with an optical time domain reflectometer and Tap architecture improves damage restoration time because a customer's service is dependent on fewer fibers and can be replaced quicker in the event of a damaged cable.

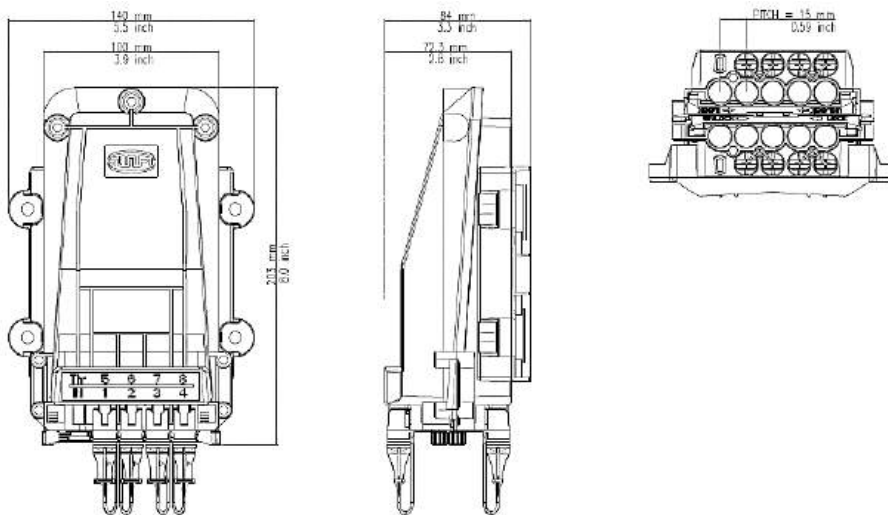
## 3. Products Specification

Port Configuration	Input port	Blue Cap, Push-Pull type hardened connector
	Through port	Orange Cap, Push-Pull type hardened connector
	Tap Drop ports	Black Cap, Push-Pull type hardened connector
Optical Tap	Branching	Asymmetrical 1x2 FBT Coupler
	Distribution	1x8 PLC Splitter
Dimension(HxWxD)		203x140x84 mm (Including mounting bracket)
Installation		Pole, Wall, Strand, Handhole, Pedestal
IP Classification		IP68

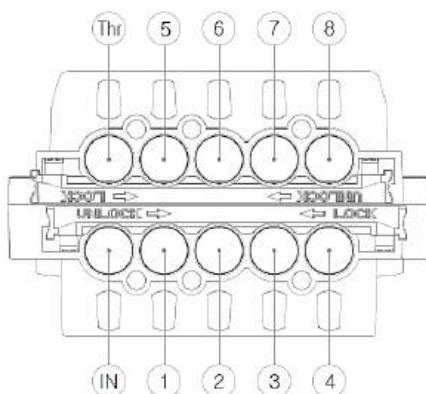
#### 4. Optical Performance

Tap Value	Tap Drop Port		Pass-Through Port	
	Max(dB)	Typical(dB)	Max(dB)	Typical(dB)
24	24.2	22.5	0.8	0.7
22	21.9	20.5	0.9	0.8
20	19.9	18.7	1.1	1.0
19	18.5	17.5	1.4	1.2
18	17.5	16.5	1.7	1.5
17	16.7	15.8	2.1	1.9
16	15.9	15.0	2.5	2.3
15	15.4	14.5	2.8	2.6
14	14.8	14.1	4.2	4.0
11	10.7	10.4	NA	NA

#### 5. Drawing



#### 6. Port Configuration

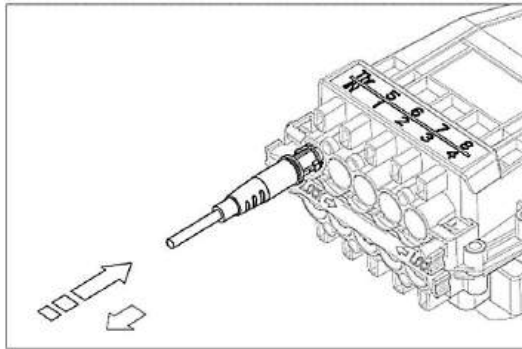
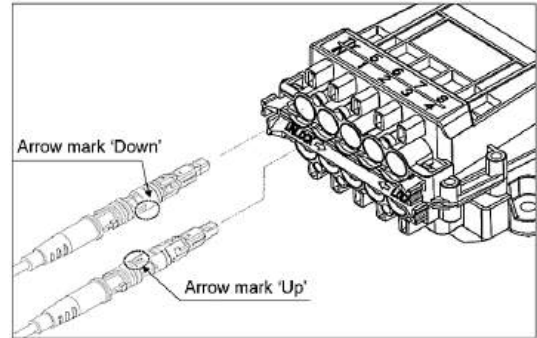


Port	Thr	5	6	7	8
Function	Pass Through	Drop5	Drop6	Drop7	Drop8
Cap Color	Blue	Black			
Port	IN	1	2	3	4
Function	Input	Drop1	Drop2	Drop3	Drop4
Cap Color	Red	Green	Black		
Interface	PSPL				
Connector	SC/APC				

## 7. Push & Pull mating mechanism

### • Connecting Hardened Push-Pull Connector to HODT-PSPL

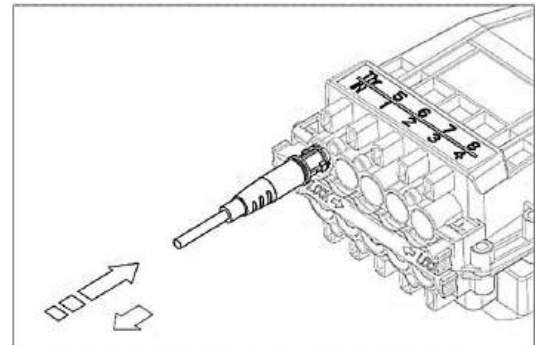
- 1) Slide the locking bar to the UNLOCK direction
- 2) Make sure 'arrow mark' Up at the lower layer ports and 'arrow mark' Down at the upper layer ports before connecting PSPL hardened connector



- 3) Make sure connecting properly with pulling back
- 4) Slide the locking bar back to the LOCK direction

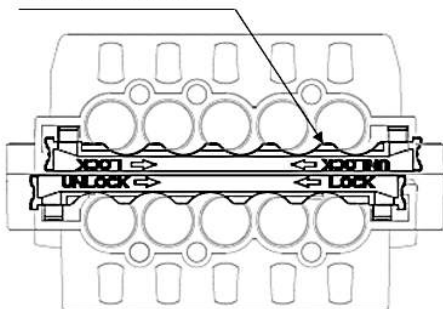
### • Disconnecting Hardened Push-Pull Connector from HODT-PSPL

- 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 direction to secure the rest of ports

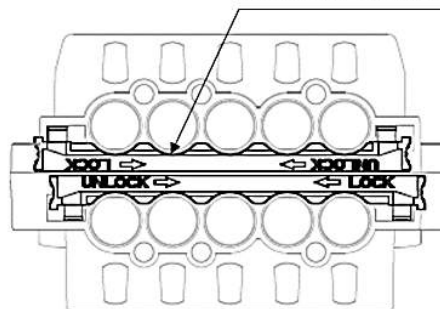


### • Locking bar Position (Locking & Unlocking)

Locked Position



Unlocked Position



## 8. Ordering Information

Part Number	Description
HODT-PSPL-8TAP24-SA-SA	Hardened PSPL TAP Terminal, Tap value : 24dB, 8 ports Tap drop, Push-Pull mating with mounting bracket for wall and handhole
HODT-PSPL-8TAP22-SA-SA	8 port Tap drop, 22dB tap value
HODT-PSPL-8TAP20-SA-SA	8 port Tap drop, 20dB tap value
HODT-PSPL-8TAP19-SA-SA	8 port Tap drop, 19dB tap value
HODT-PSPL-8TAP18-SA-SA	8 port Tap drop, 18dB tap value
HODT-PSPL-8TAP17-SA-SA	8 port Tap drop, 17dB tap value
HODT-PSPL-8TAP16-SA-SA	8 port Tap drop, 16dB tap value
HODT-PSPL-8TAP15-SA-SA	8 port Tap drop, 15dB tap value
HODT-PSPL-8TAP14-SA-SA	8 port Tap drop, 14dB tap value
HODT-PSPL-8TAP11-SA-SA	8 port Tap drop, 11dB tap value, last stage terminal
MG-PL00-A	Mounting gear, Pole bracket (Wire band)
MG-ST00-A	Mounting gear, Strand bracket
MG-ST00-B	Mounting gear, ADSS(Cable) mounting bracket
MG-SW00-B	Mounting gear, Swing bracket for 8ch(2 layer) Terminal

## 9. Related Products

Classification	Product Number	Description
Hardened Fusion SOC PSPL type	HFSOC-A2/P-SC/APC-PSPL-5000	G.657.A2, Pre-Cleaved SC/APC , Push-Pull type, Assembly with 5.0mm round cable
	HFSOC-A2/P-SC/APC-PSPL-5020	G.657.A2, Pre-Cleaved SC/APC , Push-Pull type, Assembly with 5.0x2.0mm flat cable
	HFSOC-A2/P-SC/APC-PSPL-5430	G.657.A2, Pre-Cleaved SC/APC , Push-Pull type, Assembly with 5.4x3.0mm cable
	HFSOC-A2/P-SC/APC-PSPL-6100	G.657.A2, Pre-Cleaved SC/APC , Push-Pull type, Assembly with 6.1mm round cable
	HFSOC-A2/P-SC/APC-PSPL-8145	G.657.A2, Pre-Cleaved SC/APC , Push-Pull type, Assembly with 8.1x4.5mm flat cable
Drop Cable	DRC-RD-PE5000B-PV270901	5.0mm round, Double jacket, MDPE & PVC
	DRC-FLAT-LZ5020B-FRSL2501	5.0x2.0mm Flat, FRP, Solid wire, LSZH
	DRC-FLAT-PE8145B-PV29PV0901	8.1x4.5mm Flat, All-Dielectric, PE