

Technical Specifications

SWIFT-FX PSPL Hardened Fusion SOC
for 8.1x4.5mm cable

HFSOC-A1-SC/APC-PSPL-8145

Mating Tech.	Connector type	Fiber type	Cable
Push-Pull	SC/APC	G.657.A1 or A2	Flat 8.1x4.5mm

1. General

UCL's PSPL Hardened FSOC series are field installable hardened connector terminated on UCL's All-In-One fusion splicer(KF4A-HDC and K33A-HDC) and figure out the concerns of OSP design technician, extra cable slack which cause to increase cost and not easy maintenace.

This technical specification describes the information of the components and the characteristics of UCL Hardened Fusion SOC(SC type) designed with PushPull mating and field installable with 8.1x4.5mm drop cable, then operating with UCL PSPL hardened terminal series.

2. Features and Benefits

- Eliminates cable shorts and excess slack, just in length installation
- Cost and Inventory effective, comparing with Preconn solution
- Quick and Easy connection mechanism, PushPull mating technology with PSPL Terminal
- Compact size(SFF), comparing with conventional screw type hardened connector
- Fusion technology shows better optical performance versus mechanical splice connector

3. Specifications

3.1 Optical Perfomance

Singlemode (OS1 & OS2)	Insertion Loss	Typ.	0.15dB
		Max	0.30dB
	Return Loss	min.	55dB (UPC), 65dB (APC)

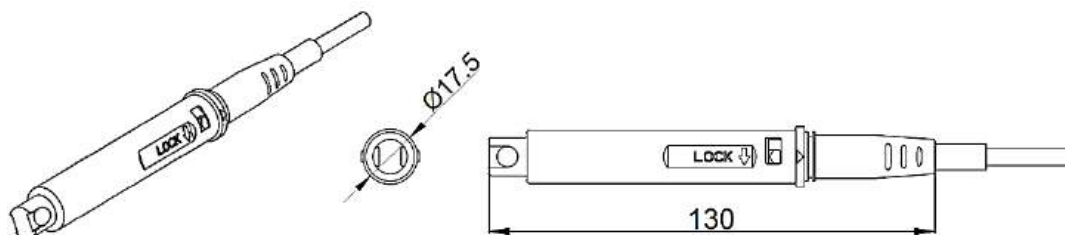
3.2 Temperature Range

Operation	-40°C to 75°C
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3.3 Mechanical Properties

Plug/Adapter tensile load	0 degree, 11.3 kgf, 60 seconds
Plug/Adapter side pull	90 degree, 6.8 kgf, 60 seconds

4. Dimension



5. Ordering Information

Part Number	Product Description
HFSOC-A2-SC/APC-PSPL-8145	G.657.A2, SC/APC , Push-Pull type, Assembly with 8.1x4.5mm cable
HFSOC-A1-SC/APC-PSPL-8145	G.657.A1, SC/APC , Push-Pull type, Assembly with 8.1x4.5mm cable

6. Splicing & Heating Condition on KF4A-HDC

Mode	Condition
Splicing Mode	12. G657A2B2 / 1. SM ITU-T G652
Heating Mode	10. Temp. : 170~190 Deg. Time : 40~50sec

7. Products for Installation

Classification	Product Number	Description
Fusion Splicer	KF4A-HDC	UCL Fusion Splicer, Cladding Splicer
Fusion Splicer	K33A-HDC	UCL Fusion Splicer, Core Splicer
FSOC Holder	HF4-SC/FC	FSOC-SC & FC Holder, Right on KF4A-HDC
FSOC Holder	HS-SC/FC	FSOC-SC & FC Holder, Right on K33A-HDC
Cable Holder	SST-250L	Cable Holder for 8.1x4.5mm cable, 250um fiber on holder
Cable Holder	SST-900L	Cable Holder for 8.1x4.5mm cable, 900um jacket on holder
Splitter	SL-MLTC	Slitting 8145, 5020, 4824, 5000
Crimping	CRTL-CR-PSPL	Crimping tool for CR & PSPL type
Heating tube	HDC-HT	Heater for shrinking tube

8. Documents

Document Number	Description
IG-HFSOC-SC-PSPL-8145-001	Installation Manual

9. Related Products

Classification	Product Number	Description
Drop Cable	DRC-PE8145B-FR00-P29KVP09-A201	8.1x4.5mm Flat, All-Dielectric, PE
PSPL Terminal	HODT-PSPL-0102-SA-SA	Push-Pull Hardened SPL Terminal with 1x2 PLC Splitter
PSPL Terminal	HODT-PSPL-0104-SA-SA	Push-Pull Hardened SPL Terminal with 1x4 PLC Splitter
PSPL Terminal	HODT-PSPL-0108-SA-SA	Push-Pull Hardened SPL Terminal with 1x8 PLC Splitter
PSPL Terminal	HODT-PSPL-0116-SA-SA	Push-Pull Hardened SPL Terminal with 1x16 PLC Splitter
PSPL Terminal	HODT-PSPL-2TAP-SA-SA	Push-Pull Hardened TAP Terminal with 1x2 PLC Splitter
PSPL Terminal	HODT-PSPL-4TAP-SA-SA	Push-Pull Hardened TAP Terminal with 1x4 PLC Splitter
PSPL Terminal	HODT-PSPL-8TAP-SA-SA	Push-Pull Hardened TAP Terminal with 1x8 PLC Splitter
PSPL Terminal	HODT-PSPL-16TAP-SA-SA	Push-Pull Hardened TAP Terminal with 1x16 PLC Splitter
PSPL Terminal	HODT-PSPL-0002-ST-SA	Push-Pull Hardened STUB Terminal 2ports output
PSPL Terminal	HODT-PSPL-0004-ST-SA	Push-Pull Hardened STUB Terminal 4ports output
PSPL Terminal	HODT-PSPL-0008-ST-SA	Push-Pull Hardened STUB Terminal 8ports output
PSPL Terminal	HODT-PSPL-0012-ST-SA	Push-Pull Hardened STUB Terminal 12ports output
PSPL Terminal	HODT-PSPL-0016-ST-SA	Push-Pull Hardened STUB Terminal 16ports output