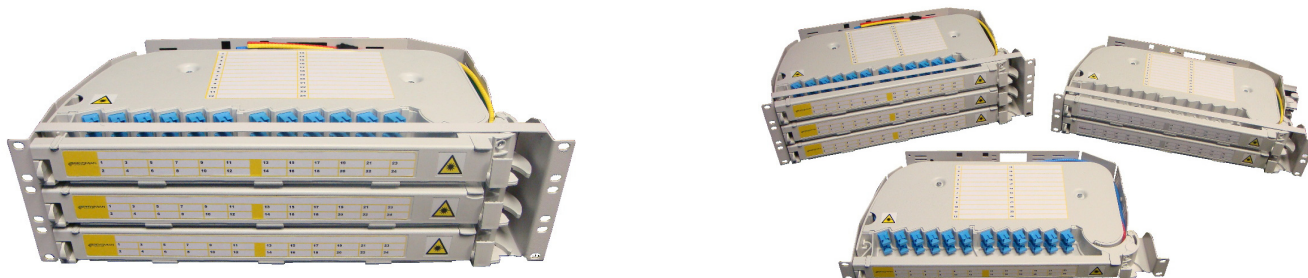


SRS3000 Distribution Sub-Rack

Prysmian Part Number: *See Below*



The SRS3000 Distribution Sub-Rack is a modular sub-rack available in a variety of configurations for integration into 19" / ETSI / ANSI racks, street-side cabinets or wall mounted cabinets. The product consists of a metal chassis available in 1U, 2U and 3U into a which a choice of modules are loaded. The module types available are Splice and Patch, Patch Only, Splice Only and Patchcord Storage. This allows users to customise the product for different applications whilst using the same building blocks in each sub-rack.

The splice and patch, splice only and patch only modules can be supplied in 12, 24 or 48 fibre capacities in a 1U unit. They are supplied with a range of connector types for both singlemode and multimode fibre, which can be factory fitted or supplied as a kit. The cable anchoring systems allows all types of optical cables (including blown fibre) to be routed onto the sub-rack and modules.

Features and Benefits

- Modular system for installation into 19" / ETSI / ANSI racks, street-side cabinets and wall mounted cabinets.
- The sub-rack can be supplied fully configured or modules can be supplied empty for upgrading at a later date.
- Chassis are available in 1U, 2U and 3U options are supplied front mounted as standard. Rear mounting brackets are available as an option.
- Fibres are actively managed to minimum bend diameters throughout the Splicing and Patching, Patching only, Splicing only and Patchcord Storage Modules.
- Splicing and bare fibre excess storage is performed inside a tray protected by a cover to prevent any accidental damage when open & closing the shelves.
- Modules pivot outwards for easy access.
- Cables are completely protected from entry to exit of the panel.
- Optical devices (i.e. Splitters & WDM's) can be mounted within the modules. Please contact Prysmian to discuss your requirements)
- Wall mount 19" and ETSI cabinets are also available. Please contact Prysmian for further details.
- Modules have drop down fronts for easier patchcord routing, enclosing patch-cords, and protecting adapters.
- 2 large labelling areas are provided for identification recording per module.

Ordering information

The SRS 3000 Sub rack system is supplied with either splice and patch, patch only, splice only or patchcord storage modules pre-fitted. To order the item required refer to the part number section on page 3.

Kit Contents

The SRS 3000 Sub rack system is supplied with modules, 2 or 3 ARS cable anchor kit brackets (depending on whether 2U or 3U) and a rack fixing kit.

Additional Items - Required

- Splice Protectors

Additional Items - Optional

- ETSI Conversion Brackets
- Rear Mounting Bracket
- ARS Cable Anchor (additional)
- BEM Cable Anchor
- Upgrade Kits
- Blown Fibre Manifold
- Aramid Restraint Kits
- Patchcords (see datasheet AC004)

Technical Data

- Max number of splices
 - 1U 48 (SC & LC), 24 (FC, ST & E2000)
 - 2U 96 (SC & LC), 48 (FC, ST & E2000)
 - 3U 144 (SC & LC), 72 (FC, ST & E2000)
- Max number of output patchcords:
 - 1U 48 with 2mm diameter patch cords
 - 2U 96 with 2mm diameter patch cords
 - 3U 144 with 2mm diameter patch cords
- Max Cable Diameter (mm): 14
- Required space envelope (mm):
 - 1U: (w) 447 x (d) 245 x (h) 44.5
 - 2U (w) 447 x (d) 245 x (h) 89.0
 - 3U (w) 447 x (d) 245 x (h) 133.5
- Operating temperature: -20°C to + 60°C (5 to 93% RH)
- Material:-
 - Metalwork: Mild Steel
 - Plastics: High Impact Polystyrene
- Finish:-
 - Metalwork: Painted light grey RAL 7035
 - Plastics: Light Grey RAL 7035
- Testing:-
 - Optical: Tested at 1310nm,1550nm and 1625nm
 - Dry heat: BS EN 60068-2-2 Test Bb
 - Damp heat: IEC 60068-2-3: 1969
 - Change of temperature: IEC 60068-2-14: 1984
 - Vibration: IEC 60068-2-6: 1995
 - Shock: IEC 60068-2-27: 1987

Logistics

- Packing Dimensions (mm):-
 - 1U: (w) 525 (d) 330 (h) 80
 - 2U: (w) 525 (d) 330 (h) 240
 - 3U: (w) 525 (d) 330 (h) 240
- Packed Weight (Kg):-
 - 1U: 3.0
 - 2U: 4.6
 - 3U 5.8
- Net Weight (Kg):-
 - 1U: 2.7
 - 2U: 3.8
 - 3U 5.0

Pigtail Technical Data

Pigtails are supplied with either xx/UPC or xx/APC connectors.

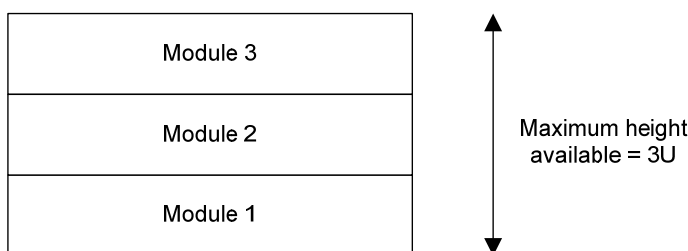
xx/UPC connectors can be used in cases where xx/PC or xx/SPC connectors are required.

For technical data on the pigtails supplied refer to Prysmian data sheet AC003

Part Numbers

The SRS3000 Sub-Rack is supplied with the modules pre-fitted by Prysmian. For Splice and Patch and Patch Only modules, empty modules can be fitted for upgrading with pigtails and adapters at a later date.

Part numbers are built up using a coding system where first the size of the chassis is selected from 1U, 2U and 3U. Next the bottom module is selected from the tables on the following pages. Module types available are Splice and Patch, Patch Only, Splice Only and Patchcord Storage with a variety of options for adapters and pigtails. For 2U and 3U Sub-Racks the modules for positions 2 and 3 are selected in the same way.



Examples are shown below for a 1U, 2U and 3U SRS. The module codes are obtained from the tables on the following pages.

Example	Part Number						
	Chassis Code	Dash	Module 1 Code	Dash	Module 2 Code	Dash	Module 3 Code
Example 1	SRS3	-	001	-	107	-	300
Example 2	SRS2	-	001	-	107		
Example 3	SRS1	-	003				

Example 1 above is for a 3U SRS Sub-Rack. The part number is **SRS3-001-107-300**. This denotes a 3U high SRS3000 Sub-Rack fitted with a blank Splice and Patch module in the bottom position, a 12 fibre SC/UPC Patch Only module in the middle position and a Patchcord Storage module in the top position.

Example 2 above is for a 2U SRS Sub-Rack. The part number is **SRS2-001-107**. This denotes a 2U high SRS3000 Sub-Rack fitted with a blank Splice and Patch module in the bottom position and a 12 fibre SC/UPC Patch Only module in the top position.

Example 3 above is for a 1U SRS shelf. The part number is **SRS1-003**. This denotes a 1U SRS3000 Splice and Patch shelf fitted with 24 FC/UPC pigtails and adapters.

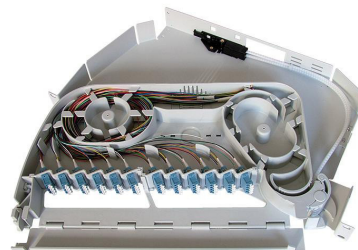
Chassis

The first part of the part number is made up of the chassis code. Select a chassis size from the table below, then refer to the tables on the following pages to select the appropriate module codes.

Chassis Height	Code
1U	SRS1
2U	SRS2
3U	SRS3

Splice and Patch Modules

Splice and Patch modules are used to splice the cable fibres to pigtails for termination. The module is available empty for installation of the pigtails and adapters at a later date, or with the pigtails and adapters pre-fitted. A large variety of capacities and connector types are available as shown in the table below and on the following page.



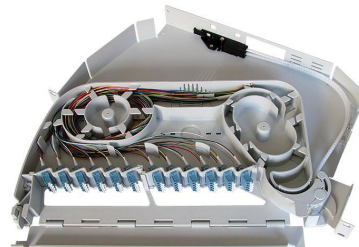
Connector type	Fibre type	Adaptor type	No of Fibres	Code
None	Two blanking plates to be upgraded later			001
FC/UPC	S/mode	Simplex	12	002
FC/UPC	S/mode	Simplex	24	003
FC/APC	S/mode	Simplex	12	004
FC/APC	S/mode	Simplex	24	005
FC	62.5/125	Simplex	12	006
FC	62.5/125	Simplex	24	007
FC	50/125	Simplex	12	008
FC	50/125	Simplex	24	009
SC/UPC	S/mode	Simplex	12	010
SC/UPC	S/mode	Simplex	24	011
SC/UPC	S/mode	Duplex	12	012
SC/UPC	S/mode	Duplex	24	013
SC/UPC	S/mode	Quad *	24	014
SC/UPC	S/mode	Quad *	48	015
SC/APC	S/mode	Simplex	12	016
SC/APC	S/mode	Simplex	24	017
SC/APC	S/mode	Duplex	12	018
SC/APC	S/mode	Duplex	24	019
SC/APC	S/mode	Quad *	24	020
SC/APC	S/mode	Quad *	48	021
SC	62.5/125	Simplex	12	022
SC	62.5/125	Simplex	24	023
SC	62.5/125	Duplex	12	024
SC	62.5/125	Duplex	24	025
SC	62.5/125	Quad *	24	026
SC	62.5/125	Quad *	48	027
SC	50/125	Simplex	12	028
SC	50/125	Simplex	24	029
SC	50/125	Duplex	12	030
SC	50/125	Duplex	24	031
SC	50/125	Quad *	24	032
SC	50/125	Quad *	48	033

*Note For SC connectors where Quad is described, this is actually two duplex adapters next to each other.

Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Splice and Patch Modules continued

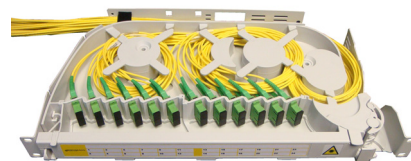
Connector type	Fibre type	Adaptor type	No of Fibres	Code
LC/UPC	S/mode	Duplex	24	034
LC/UPC	S/mode	Duplex	48	035
LC/UPC	S/mode	Quad	24	036
LC/UPC	S/mode	Quad	48	037
LC/APC	S/mode	Duplex	24	038
LC/APC	S/mode	Duplex	48	039
LC/APC	S/mode	Quad	24	040
LC/APC	S/mode	Quad	48	041
LC	62.5/125	Duplex	24	042
LC	62.5/125	Duplex	48	043
LC	62.5/125	Quad	24	044
LC	62.5/125	Quad	48	045
LC	50/125	Duplex	24	046
LC	50/125	Duplex	48	047
LC	50/125	Quad	24	048
LC	50/125	Quad	48	049
E2000/UPC	S/mode	Simplex	12	050
E2000/UPC	S/mode	Simplex	24	051
E2000/APC	S/mode	Simplex	12	052
E2000/APC	S/mode	Simplex	24	053
E2000	62.5/125	Simplex	12	054
E2000	62.5/125	Simplex	24	055
E2000	50/125	Simplex	12	056
E2000	50/125	Simplex	24	057
ST/UPC	S/mode	Simplex	12	058
ST/UPC	S/mode	Simplex	24	059
ST	62.5/125	Simplex	12	060
ST	62.5/125	Simplex	24	061
ST	50/125	Simplex	12	062
ST	50/125	Simplex	24	063



Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Patch Only Modules

Patch Only modules are used install pre-terminated cables into the SRS shelf for termination. The module is available empty for installation of the adapters at a later date, or with the adapters pre-fitted. A large variety of capacities and connector types are available as shown in the table below and on the following page.



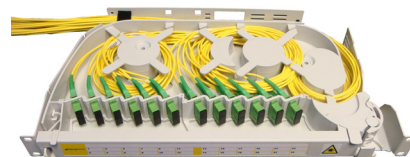
Connector type	Fibre type	Adaptor type	No of Fibres	Code
None	Two blanking plates to be upgraded later			100
FC/UPC	S/mode	Simplex	12	101
FC/UPC	S/mode	Simplex	24	102
FC/APC	S/mode	Simplex	12	103
FC/APC	S/mode	Simplex	24	104
FC	Multimode	Simplex	12	105
FC	Multimode	Simplex	24	106
SC/UPC	S/mode	Simplex	12	107
SC/UPC	S/mode	Simplex	24	108
SC/UPC	S/mode	Duplex	12	109
SC/UPC	S/mode	Duplex	24	110
SC/UPC	S/mode	Quad *	24	111
SC/UPC	S/mode	Quad *	48	112
SC/APC	S/mode	Simplex	12	113
SC/APC	S/mode	Simplex	24	114
SC/APC	S/mode	Duplex	12	115
SC/APC	S/mode	Duplex	24	116
SC/APC	S/mode	Quad *	24	117
SC/APC	S/mode	Quad *	48	118
SC	Multimode	Simplex	12	119
SC	Multimode	Simplex	24	120
SC	Multimode	Duplex	12	121
SC	Multimode	Duplex	24	122
SC	Multimode	Quad *	24	123
SC	Multimode	Quad *	48	124
LC/UPC	S/mode	Duplex	24	125
LC/UPC	S/mode	Duplex	48	126
LC/UPC	S/mode	Quad	24	127
LC/UPC	S/mode	Quad	48	128
LC/APC	S/mode	Duplex	24	129
LC/APC	S/mode	Duplex	48	130
LC/APC	S/mode	Quad	24	131
LC/APC	S/mode	Quad	48	132

*Note For SC connectors where Quad is described, this is actually two duplex adapters next to each other.

Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Patch Only Modules continued

Connector type	Fibre type	Adaptor type	No of Fibres	Code
LC	Multimode	Duplex	24	133
LC	Multimode	Duplex	48	134
LC	Multimode	Quad	24	135
LC	Multimode	Quad	48	136
E2000/UPC	S/mode	Simplex	12	137
E2000/UPC	S/mode	Simplex	24	138
E2000/APC	S/mode	Simplex	12	139
E2000/APC	S/mode	Simplex	24	140
E2000	Multimode	Simplex	12	141
E2000	Multimode	Simplex	24	142
ST	SM & MM	Simplex	12	143
ST	SM & MM	Simplex	24	144

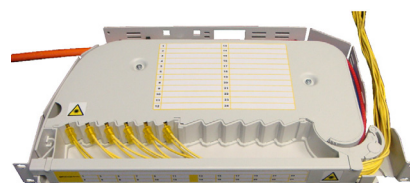


Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Splice Only Module

Splice Only modules are used to splice the cable fibres directly to connectorised pigtails or for cable jointing within the SRS3000 Sub-Rack. The module can accommodate up to 48 splices and is available in two versions. Version 1 enables the module to splice cable to cable, or cable to blown fibre by using a bulkhead adapter panel for tube retention. Version 2 enables ruggedised pigtails to be spliced to the input cable. It is supplied with a panel to accommodate Aramid restraints.

No of Fibres	Output Cable Type	Code
48	Cable / Blown Fibre	200
48	Ruggedised Pigtails	201



Patchcord Storage Module

The Patchcord Storage Module is used to store patch cords or patchcord over-lengths within the SRS3000 Sub-Rack.

Code
300

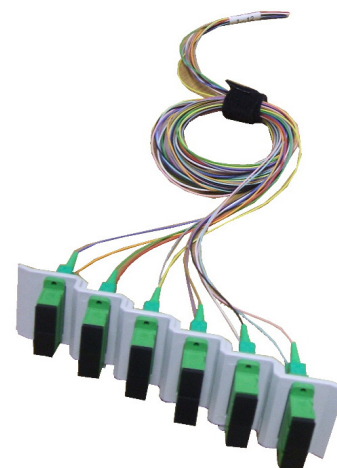


Additional Items

Splice and Patch Upgrade kits

The Splice and Patch Upgrade kit is used to increase the capacity of splice and patch modules that have been supplied empty or partially populated. The kit enables additional fibres to be installed within the SRS300 Shelf. The kit comprises of an adaptor plate, adaptors, pigtails, and a splice holder.

Connector type	Fibre type	Adaptor type	Fibres	Part number
FC/UPC	S/mode	Simplex	12	XSRSC00288
FC/APC	S/mode	Simplex	12	XSRSC00291
FC	62.5/125	Simplex	12	XSRSC00289
FC	50/125	Simplex	12	XSRSC00290
SC/UPC	S/mode	Simplex	12	XSRSC00292
SC/UPC	S/mode	Duplex	12	XSRSC00296
SC/UPC	S/mode	Quad *	24	XSRSC00344
SC/APC	S/mode	Simplex	12	XSRSC00295
SC/APC	S/mode	Duplex	12	XSRSC00299
SC/APC	S/mode	Quad *	24	XSRSC00345
SC	62.5/125	Simplex	12	XSRSC00293
SC	62.5/125	Duplex	12	XSRSC00297
SC	62.5/125	Quad *	24	XSRSC00346
SC	50/125	Simplex	12	XSRSC00294
SC	50/125	Duplex	12	XSRSC00298
SC	50/125	Quad *	24	XSRSC00347
LC/UPC	S/mode	Duplex	24	XSRSC00300
LC/UPC	S/mode	Quad	24	XSRSC00304
LC/APC	S/mode	Duplex	24	XSRSC00303
LC/APC	S/mode	Quad	24	XSRSC00307
LC	62.5/125	Duplex	24	XSRSC00301
LC	62.5/125	Quad	24	XSRSC00305
LC	50/125	Duplex	24	XSRSC00302
LC	50/125	Quad	24	XSRSC00306
E2000UPC	S/mode	Simplex	12	XSRSC00308
E2000APC	S/mode	Simplex	12	XSRSC00311
E2000	62.5/125	Simplex	12	XSRSC00309
E2000	50/125	Simplex	12	XSRSC00310
ST/UPC	S/mode	Simplex	12	XSRSC00341
ST	62.5/125	Simplex	12	XSRSC00342
ST	50/125	Simplex	12	XSRSC00343



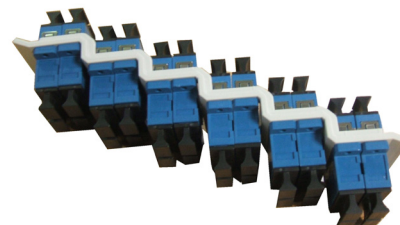
*Note For SC connectors where Quad is described, this is actually two duplex adapters next to each other.

Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Additional Items continued

Patch Only Upgrade kits

The Patch Only Upgrade kit is used to increase the capacity of patching modules that have been supplied empty or partially populated. The kit enables additional fibres to be installed within the SRS300 Shelf. The kit comprises of an adaptor plate and adaptors.



Connector type	Fibre type	Adaptor type	Fibres	Part number
FC/UPC	S/mode & M/mode	Simplex	12	XSRSC00141
FC/APC	S/mode	Simplex	12	XSRSC00142
SC/UPC	S/mode	Simplex	12	XSRSC00144
SC/UPC	S/mode	Duplex	12	XSRSC00145
SC/UPC	S/mode	Quad *	24	XSRSC00146
SC/APC	S/mode	Simplex	12	XSRSC00147
SC/APC	S/mode	Duplex	12	XSRSC00148
SC/APC	S/mode	Quad *	24	XSRSC00149
SC	M/mode	Simplex	12	XSRSC00150
SC	M/mode	Duplex	12	XSRSC00151
SC	M/mode	Quad *	24	XSRSC00152
LC/UPC	S/mode	Duplex	24	XSRSC00153
LC/UPC	S/mode	Quad	24	XSRSC00154
LC/APC	S/mode	Duplex	24	XSRSC00155
LC/APC	S/mode	Quad	24	XSRSC00156
LC	M/mode	Duplex	24	XSRSC00157
LC	M/mode	Quad	24	XSRSC00158
E2000UPC	S/mode	Simplex	12	XSRSC00159
E2000APC	S/mode	Simplex	12	XSRSC00160
E2000	M/mode	Simplex	12	XSRSC00161
ST/UPC	S/mode & M/mode	Simplex	12	XSRSC00162

*Note For SC connectors where Quad is described, this is actually two duplex adapters next to each other.

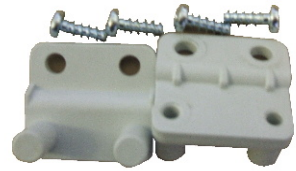
Note for 48f SC or LC 1U modules that 2mm diameter patch-cords should be used

Additional Items continued

ETSI Conversion Brackets.

ETSI Conversion Brackets enable the SRS3000 sub-racks to be installed into an ETSI rack. They are secured to the unit using four fixing screws. For a 1U shelf one set of brackets is required. For a 2U or 3U shelf two sets of brackets are required.

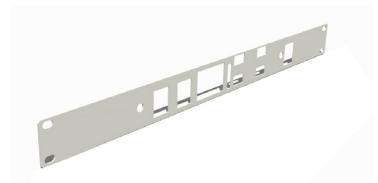
Prysmian Part No. – XKTSC00171 Grey



Rear Mounting Bracket

The Rear Mounting Bracket is used to install an SRS3000 shelf into a rear mounted rack. The bracket simply bolts to the back of the SRS shelf and provides fixing holes for securing to a rear mounted 19" rack. For a 2U or 3U shelf, two brackets are required.

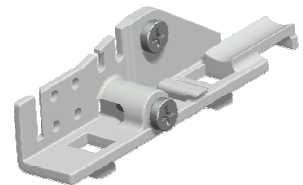
Prysmian Part No. – XSRSC00361



SRS - ARS Cable Anchor

The ARS Cable Anchor kit is used to install an additional cable into an SRS3000 shelf. The kit enables a single cable to be anchored and for the fibres to be distributed onto the shelf. The ARS is suitable for cables between 12 and 48 fibres. Bend limiting routing tubes to protect the fibres being routed to the shelf are also supplied in the kit. The ARS also allows for the anchoring / termination of both the cable strength member and any Aramid within in the cable construction.

Prysmian Part No. – XSRSC00360



BEM Cable Clamp

The BEM Cable Clamp is used to anchor the cable within the rack or to an SRS3000 Mounting Chassis and route the fibres onto the Modules. The BEM is suitable for cables between 36 and 192 fibres. 20 metres of routing tube is supplied with the BEM.

Prysmian Part Nos.: -

XEXSC00960 – BEM + 20m of bend limiting tube



Blown Fibre Manifold

The Blown Fibre Manifold is used to take up to 6 blown fibre tubes of 5mm in diameter onto one SRS3000 module. The manifold fits onto the back of the SRS3000 chassis and is supplied with a protective cover.

Prysmian Part No. – XKTSC00257



Additional Items continued

Heatshrink Splice Protector

Splice protectors are used to protect the fibre splice. They are 2.2mm in diameter and 45mm in length.

Prysmian Part No. - XPESC00053 (pack of 50)
- XKTSC00050 (pack of 12)



Crimp Splice Protectors

Crimp Splice Protectors are used to protect the fibre splice. They are 1.3mm wide x 3.2mm high x 30mm long.

Prysmian Part No. – XKTSC00020



Crimp Splice Protector Inserts

Crimp splice protector inserts are used to install crimp splices into the SRS3000 shelf. They are supplied as a pack of 10 pieces with each piece able to accommodate 12 crimp splice protectors.

Prysmian Part No. – XSRSC00358 (pack of 10)



Aramid Restraint Kit

The Aramid Restraint Kit provides strain relief (up to 8Kg) for Aramid yarns from single fibre cables. The restraints are used to anchor the jumper cables onto the SRS3000 Splice Only shelf panel. Each restraint can terminate up to two ruggedised single fibre cables of up to 2.8mm in diameter.

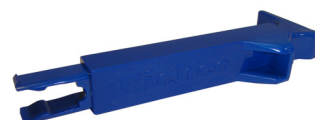
Prysmian Part No. – XAPSC00546 (pack of 10)



Connector Removal Tool

The connector removal tool is used to aid removal of SC connectors in applications where a 48 fibre shelf is used. In this application the connectors are close together and can be difficult to remove by hand. The removal tool allows the installer to remove the connector with ease.

Prysmian Part No. – XKTSC00286



Prysmian Telecom Cables & Systems UK Ltd, Chickenhall Lane, Bishopstoke, Hants SO50 6YU, UK

Technical Enquiries +44 (0) 2380 608760 Fax Number +44 (0) 2380 608769

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