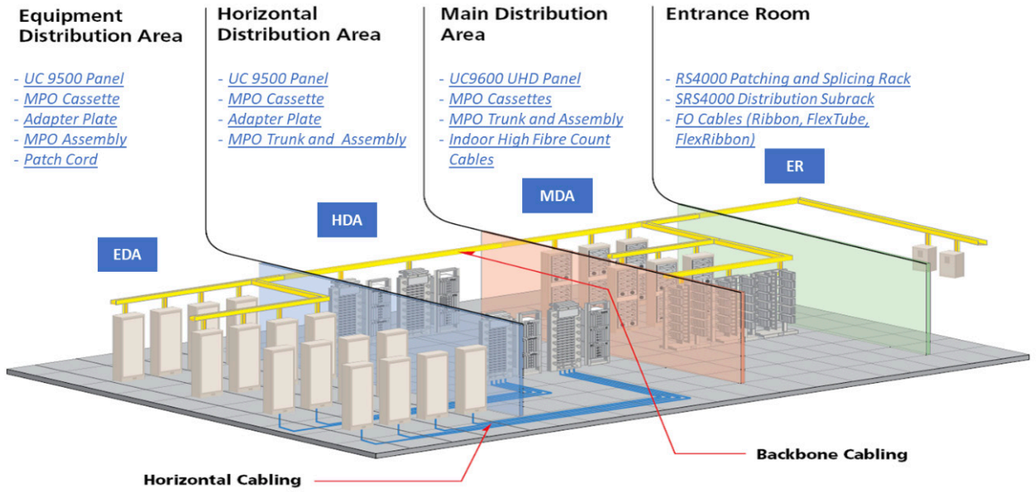
PRYSMIAN

There, we've put it all together.

Data Centre Fibre Optic Infrastructure
SRS4000 series | UC9500 series | UC9600 series

A brand of the
Prysmian Group

In this digitalised era, demand for bandwidth is growing exponentially. The technology is constantly evolving and changing, sometimes faster than you could ever guess. The need to install, access, reroute and reconfigure the network connections is always required. Structured cabling is the efficient cabling solution that organizes your infrastructure.



Prysmian offers a wide range of fibre optic cables, racks, together with a large variety of shelves and trays, for termination, splicing, patching, splitting and/or storage. All are designed for structured cabling systems and suitable for application in exchanges, central hubs, offices and data centres.

This brochure introduces the SRS4000 series, UC9500 series, UC9600 series modular optical distribution solutions to support your network needs. These solutions provide flexible, reliable and cost-effective solutions to your evolving network needs.

If you need further information for the racks and fibre optic cables, please contact Prysmian to discuss your requirements.

Contact us:
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Prysmian SRS4000 series Rack Mounted Products

The SRS4000 series of products include all the necessary pieces to build a full solution for cable termination including pigtails, patch cords, cable anchoring and cable management and storage. These accessories can manage most outside plant (OSP) cables as well as internal cable termination. All products are designed to work in 19" / ETSI / ANSI racks.

The range of SRS4000 Rack Mounted Products combined with Prysmian's strength in Optical Cable and Closures offers all the pieces required to build an end to end OSP network.

SRS4000 Splice and Patch Shelf

The SRS4000 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, Patchcord Storage and connectorised splitter. 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, 48 or 96* fibre capacities in a 1U unit. They are supplied with a range of connector types for both singlemode and multimode fibre. The cable anchoring systems allows all types of optical cables including Loose Tube, Flextube and blown fibre to be routed onto the sub-rack and modules.

*96f/192f/288f – 1RU/2RU/3RU panels are available

Features and Benefits

- Modular system for installation into 19" / ETSI / ANSI racks, street-side cabinets and wall mounted cabinets.
- The sub-rack is supplied unconfigured. Module parts enable easy upgrades to the desired configuration on initial installation or 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 or Splicing only 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
- Modules have drop down fronts for easier patchcord routing, enclosing patch-cords, and protecting adapters.

Ordering Information

The SRS 4000 splice and patch shelf is supplied unconfigured in either 1, 2 or 3RU sizes. The unconfigured shelf includes splice trays and blank front face plates.

Adaptors and faceplates are ordered as a single product, separately. Pigtails are also ordered separately. See following pages for specific details and part numbers.

Example order for 1RU 48 fibre SCA G657A1 would include the following codes:

1 x S4-H-001 - 1RU S+P Blank 2.2mm splice trays
2 x XSRSC00149 - SC/APC 24f Quad S/ mode
2 x PIG-002-D-B-09-S-S - 12 x SCAPC 2m G652D 0.9mm

Technical Data

Maximum number of splices
- 1U 96 (LC), 48 (SC)
- 2U 192 (LC), 96 (SC)
- 3U 288 (LC), 144 (SC)

Max number of output patchcords:
- 1U 96 with 1.6mm diameter patch cords
- 2U 192 With 1.6mm diameter patch cords
- 3U 288 with 1.6mm diameter patch cords

Max Cable Diameter (mm): 14

Required space envelope (mm):
- 1U: (w) 480 x (d) 245 x (h) 44.5
- 2U (w) 480 x (d) 245 x (h) 89.0
- 3U (w) 480 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

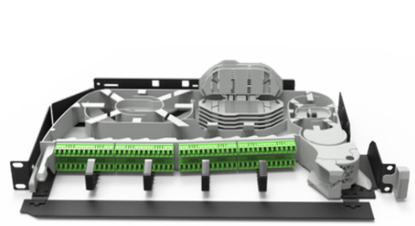
Finish:
- Metalwork: Painted Black
- Plastics: Light Grey RAL 7035

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

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



1,2 and 3RU Splice and Patch Shelf

Kit Contents

The SRS 4000 Sub rack system is supplied with modules, 1, 2 or 3 ARS cable anchor kit brackets (depending on whether 1U, 2U or 3U) and a rack fixing kit. 8 x splice trays are included, suitable for splice protectors of 2.2mm x 45mm in size.

Blank S+P Shelf

Code	Description
S4-H-001	1RU S+P Blank 2.2mm splice trays
S4-H-001-001	2RU S+P Blank 2.2mm splice trays
S4-H-001-001-001	3RU S+P Blank 2.2mm splice trays

Adaptor Face Plates

The Adaptor Face Plates kit are fitted into the 1, 2 or 3RU Splice and Patch Shelves. Each Adaptor Face Plate fits half of 1RU. The Adaptor Face Plates can be used to install into an unconfigured Splice and Patch Shelf or can be used to upgrade an existing shelf.

Kit Contents

The kit comprises of an adaptor plate and adaptors.

Single-Mode Patch Upgrade Kits (Adaptors + faceplate)

Code	Description	Adaptor Colour
XSRSC00145	SC/UPC 12f Duplex S/ mode	Blue
XSRSC00146	SC/UPC 24f Quad S/ mode	Blue
XSRSC00148	SC/APC 12f Duplex S/ mode	Green
XSRSC00149	SC/APC 24f Quad S/ mode	Green
XSRSC00153	LC/UPC 24f Duplex S/ mode	Blue
XSRSC00155	LC/APC 24f Duplex S/ mode	Green

*96F/192F/288F - 1RU/2RU/3RU are supplied fully configured. Please contact Prysmian for more information.

Multi-Mode Patch Upgrade Kits (Adaptors + faceplate)

Code	Description	Adaptor Colour
XSRSC00151	SC/UPC 12f Duplex MM	Beige
XSRSC00157	LC/UPC 24f Duplex MM	Beige

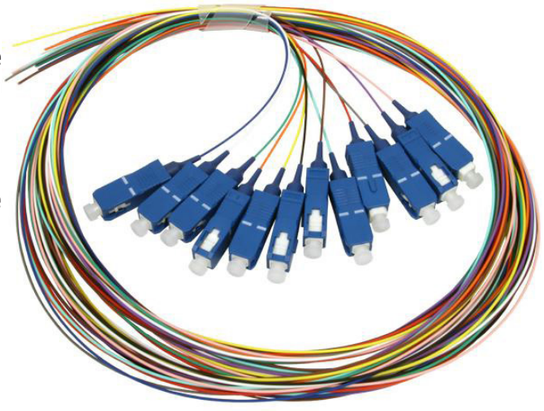
Other configurations are available upon request.
Please contact Prysmian.

Pigtails

Pigtails are connected into the adaptor plates of the SRS4000. All pigtails are fully qualified to Telcordia GR326 and IEC61300 and all materials used are RoHS compliant.

Size and length pigtails specifically for SRS4000 are listed below.

Pigtails can also be supplied in a variety of lengths, colours and different connector types for other applications and products. A part number builder is also given below to provide codes for other pigtail configurations.



Features and Benefit

- Full traceability and test certification supplied with each assembly.
- Ultra polish (UPC) supplied as standard and Angle polish (APC) also available. Pigtails are un-tuned. Tuned pigtails are available on request.
- G.657.A1 as standard
- Qualified to Telcordia GR326 and IEC 61300 standards and RoHS compliant materials.
- Can be supplied with many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request.
- Available in single-mode (G.652.D, G.657.A1/A2/B2/B3) and multi-mode (OM1/OM2/OM3/OM4 and OM4 plus).
- Standard length supplied is 2 metres.
- Standard cable diameter is 900 micron with easy strip buffering. Ruggedised pigtails can also be supplied in 1.6mm, 2mm and 3mm. Contact Prysmian for further information.
- 900 micron pigtails are supplied in sets of 12 colours as standard.
- The fibres and the buffer are both coloured to ensure ease of identification when stripped.
- All connectors are supplied with ceramic ferrules.

Technical Data

Single-mode (1310/1550nm)

Max. Insertion Loss (dB):
≤ 0.3 Typical 0.2 (UPC & APC)

Return Loss (dB):
≥ 55 (UPC), ≥ 65 (APC)

Intermateability:
IEC 874-14

Operating temperature:
-40oC to + 85oC

Multi-mode (850nm)

Max. Insertion Loss (dB):
≤ 0.4 (UPC)

Return Loss (dB):
Not measured

Intermateability:
IEC 874-14

Operating temperature:
-40oC to + 85oC

Kit Contents - Pigtails for SRS4000

The SRS4000 requires G.657.A1 pigtails of 2m length and 900um in diameter. The part numbers are for a set of 12 colours as described below.

Single-Mode Pigtails

Code	Description
PIG-002-D-B-09-S-S	12 x SCAPC 2m G657A1 0.9mm
PIG-002-C-B-09-S-S	12 x SCUPC 2m G657A1 0.9mm
PIG-002-J-B-09-S-S	12 x LCAPC 2m G657A1 0.9mm
PIG-002-H-B-09-S-S	12 x LCUPC 2m G657A1 0.9mm

Multi-Mode Pigtails

Code	Description
PIG-002-C-F-09-S-S	12 x SCUPC 2m OM3 0.9mm
PIG-002-C-G-09-S-S	12 x SCUPC 2m OM4 0.9mm
PIG-002-H-F-09-S-S	12 x LCUPC 2m OM3 0.9mm
PIG-002-H-G-09-S-S	12 x LCUPC 2m OM4 0.9mm

Pigtail Part Number Builder

Pigtails can also be supplied in a variety of lengths, colours and different connector types for other applications and products. A part number builder is also given below to provide codes for other pigtail configurations.

PigTail	Dash	Length	Dash	Connector1	Dash	Fibre Type	Dash	Diameter	Dash	Termination	Dash	Colour
PIG	-	XXX	-	X	-	X	-	XX	-	X	-	X

PAT = Patchcord

- Length: Enter length in three digits. Examples: 0.5 = 0.5 metre; 001 = 1 metre; 015 = 15 metres; 099 = 99 metres
- Connector1: A = FC/UPC; B = FC/APC; C = SC/UPC; D = SC/APC; E = ST; F = E2000/UPC; G = E2000/APC; H = LC/UPC; J = LC/APC; K = DIN/UPC; L = DIN/APC
- Fibre Type: A = SM G652D; B = SM G557A1; C = SM G655C; D = MM 62.5/25 OM1; E = MM 50/125 OM2; F = MM 50/125 OM3; G = MM 50/125 OM4; H = SM G657B2; J = SM G657B3; K = SM G657A2; L = MM 50/125 OM4 PLUS; *Others on request
- Diameter: 09 = 0.9mm; 16 = 1.6mm; 20 = 2.0mm; 30 = 3.0mm; *Others on request
- Termination: S = Simplex; D = Duplex
- Colour: A = Red; B = Blue; C = Green; D = Yellow; E = Violet; F = White; G = Orange; H = Grey; J = Brown; K = Black; L = Turquoise; M = Pink; S = Set of Colours; *Others on request

**Pigtails Colour Code

The pigtail colour code can be seen in the table below. When ordering sets of pigtails, they are supplied with the colours from 1 to 12.

Fibre No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Pink

Example of a pigtail part number:

PIG-2-D-B-09-S-S

The above example describes a pigtail 2 metres in length, with SC/APC connector. The fibre type is G657A1 and the diameter of the pigtail is 0.9mm. Pigtails are simplex and the part refers to a pack of 12 colours.

Patchcord

Prysmian offers an extensive range of optical patchcords. All patchcords are fully qualified to Telcordia GR326 and IEC 61300 and all materials used are RoHS compliant.

Patchcords can be supplied in a variety of lengths and with a variety of different connector types. Different fibre types and cable diameters are also available on request. Hybrid patchcords with different connector types on each end are also available. Please contact Prysmian for further information.
Note: For the 96f/192f/288f - 1RU/2RU/3RU patch panels, 1.6mm diameter patch cords are recommended due to the increased density of leads.

Features and Benefits

- Full traceability and test certification supplied with each assembly.
- Ultra polish (UPC) supplied as standard and Angle polish (APC) also available. Patchcords are un-tuned. Tuned patchcords are available on request.
- Qualified to Telcordia GR326 and IEC 61300 standards and RoHS compliant materials.
- Can be supplied with many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request.
- Available in single-mode (G.652.D, G.657.A1/A2/B2/B3) and multi-mode (OM1/OM2/OM3/OM4 and OM4 plus).
- Lengths available from 1 metre to 99 metres.
- Cable diameters available in 1.2mm, 1.6mm, 2mm and 3mm.
- Various sheath colours available.
- All connectors are supplied with ceramic ferrules.

Technical Data

Singlemode (1310/1550nm)

Max. Insertion Loss (dB):
≤ 0.3 Typical 0.2 (UPC & APC)

Return Loss (dB):
≥ 55 (UPC), ≥ 65 (APC)

Intermateability:
IEC 874-14

Operating temperature:
-40oC to + 85oC

Multimode (850nm)

Max. Insertion Loss (dB):
≤ 0.4 (UPC)

Return Loss (dB):
Not measured

Intermateability: IEC 874-14

Operating temperature: -40oC to + 85oC

Patchcord Part Number Builder

Patchcord	Dash	Length	Dash	Connector 1	Connector 2	Dash	Fibre Type	Dash	Diameter	Dash	Termination	Dash	Colour
PAT	-	XX	-	X	X	-	X	-	XX	-	X	-	X

PAT = Patchcord

Enter length in two digits

Examples:
01 = 1 metre
15 = 15 metres
99 = 99 metres

A = FC/UPC
B = FC/APC
C = SC/UPC
D = SC/APC
E = ST
F = E2000/UPC
G = E2000/APC
H = LC/UPC
J = LC/APC
K = DIN/UPC
L = DIN/APC

A = FC/UPC
B = FC/APC
C = SC/UPC
D = SC/APC
E = ST
F = E2000/UPC
G = E2000/APC
H = LC/UPC
J = LC/APC
K = DIN/UPC
L = DIN/APC

A = SM G652D
B = SM G657A1
C = SM G655C
D = MM 62.5/125 OM1
E = MM 50/125 OM2
F = MM 50/125 OM3
G = MM 50/125 OM4
H = SM G657B2
J = SM G657B3
K = SM G657A2
L = MM 50/125 OM4 PLUS

12 = 1.2mm
16 = 1.6mm
20 = 2.0mm
30 = 3.0mm

*Others on request

S = Simplex
D = Duplex

For SMF
Y = Yellow
B = Blue

For MM
O = Orange

For MM OM3
T = Turquoise
V = Violet

*Others on request

Example of a pigtail part number: -

PAT-05-DD-B-20-S-Y

The above example describes a patchcord 5 metres in length, with SC/APC connectors on both ends. The fibre type is G657A1 and the diameter of the patchcord is 2mm. It is a simplex patchcord with a yellow sheath.

1RU Storage shelf

Prysmian Part Number: SRS1-300

The SRS3000 Patchcord Storage Shelf is a 1U shelf used for the storage of patchcords or the storage of patchcord overlength. The shelf can be installed in to 19" / ETSI / ANSI racks, street side or wall mounted cabinets. The product consists of a metal chassis and a plastic light weight module. The product has a capacity of up to 48 patchcords in a 1U unit.

Features and Benefits

- Suitable for installation into 19", ETSI and ANSI racks.
- Can be used to store patchcords prior to installation or to store patchcord overlength.
- Storage capacity of up to 2 metres of 24 patchcords 2.8mm in diameter or 48 patchcords of 2.0mm in diameter.
- Overlength capacity of up to 2.5 metres of 24 patchcords 2.8mm in diameter or 48 patchcords of 2.0mm in diameter.
- Storage module pivots outwards for easy patchcord access.
- All fibres are positively bend managed to a 30mm radius.
- Supplied with a large cover label and front panel labels for easy identification and data recording.

Technical Data

Max Storage Capacity:
- 2.0mm Patchcords: 48 x 2.0 metres
- 2.8mm Patchcords: 24 x 2.0 metres
-

Max Overlength Capacity:
- 2.0mm Patchcords: 48 x 2.5 metres
- 2.8mm Patchcords: 24 x 2.5 metres

Required space envelope (mm):
(w) 480 x (d) 245 x (h) 44.5

Operating temperature:
-20oC to + 60oC (5 to 93% RH)

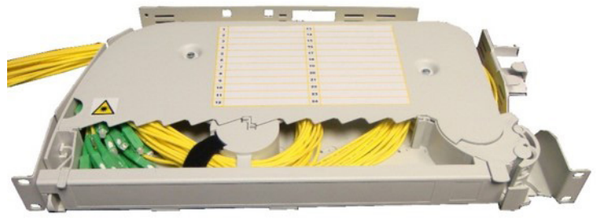
Material:
- Metalwork: Mild Steel painted light grey RAL 7035
- Plastics: High Impact Polystyrene grey RAL 7035

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

Pack Dimensions (mm): (w)560 x (d)290 x (h)175

Packed Weight (kg): 2.95

Net weight (kg): 2.40



3RU Horizontal Routing and Storage Shelf.

Prysmian Part Number: XEXSC01560

The Horizontal Routing and Storage Shelf is a 3U shelf used to transport patchcords from one side of a 19" or ETSI rack to the opposite side. The shelf can also be used as a patch cord storage shelf for the storage of patch cord over-lengths. Manufactured from the steel, the shelf contains two routing mandrels for the coiling of the patch cord over-lengths. The shelf fits directly into 19" racks and cabinets and can also be mounted into ETSI racks and cabinets using the conversion brackets supplied, it can also be rear mounted using additional brackets upgrades (available separately).

Features and Benefits

- 3U shelf for 19", ETSI or rear rack mounting.
- ETSI mounting is achieved using conversion brackets supplied.
- Rear Mounting is achieved using additional rear mounting brackets.
- Can be used to transport patch cords from one side of the rack to the opposite side.
- Can also be used as a patch cord storage shelf for the storage of patch cord over-lengths.
- Supplied with two integral mandrels for the coiling of fibre patch cords.
- Unit manufactured from steel and powder coat painted to RAL7035.
- Can be mounted in racks, wall cabinets and street-side cabinets.

Technical Data

Required space envelope (mm): (w) 480 x (d) 245 x (h) 133.5

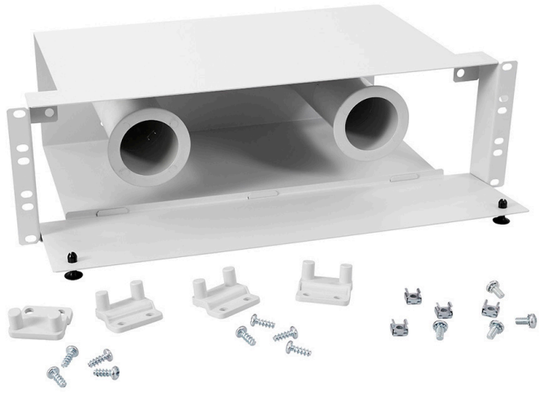
Operating temperature: -20oC to + 60oC (5 to 93% RH)

Material:-
• Metalwork: Mild Steel, painted Light Grey RAL 7035
• Plastics: High Impact Polystyrene, Grey RAL 7035

Pack Dimensions (mm): (w)525 x (d)330 x (h)240

Packed Weight (kg): 3.9

Net weight (kg): 3.4



Additional Parts

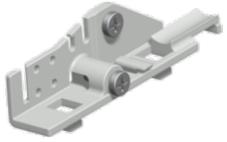
ETSI Conversion Brackets
Prysmian Part No.
XKTSC00171 Grey

ETSI Conversion Brackets enable the SRS4000 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.

Rear Mounting Bracket
Prysmian Part No.
XSRSC00361

The Rear Mounting Bracket is used to install an SRS4000 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.

SRS - ARS Cable Anchor
Prysmian Part No.
XSRSC00360



The ARS Cable Anchor kit is used to install an additional cable into an SRS4000 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 with in the cable construction.

BEM Cable Clamp
Prysmian Part No.
XEXSC00960
BEM + 20m of bend limiting tube

The BEM Cable Clamp is used to anchor the cable within the rack or to an SRS4000 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.

Connector Removal Tool
Prysmian Part No.
XKTSC00286

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.

Heatshrink Splice Protect
Prysmian Part No.
XPESC00053 (pack of 50)
XKTSC00050 (pack of 12)

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

UC9500 Series Light Weight Fibre Suite

UCCONNECT® UC9500 series Light Weight Fibre Suite is designed for the use in the Entrance Room, Horizontal Distribution Areas and Equipment Distribution Areas in the exchange offices or date centres.

The products consist of a 1.2mm thickness steel chassis that can be installed into 19" / ETSI / ANSI racks. The products have sleek design and feel, water painted surface, abrasion resistance and highly durability.

Each 1U unit has 4 slots to be equipped with either modular adaptor panels with easy fixtures or modular cassettes pre-fit with male 12F/24F MPO/MTP® to fanout LC/SC assemblies. Blank plate is available for the unused slots.

They can be configured for OSP cable termination, or optical cable plug and play termination and patching. Available applications include:

- OSP cable terminated and spliced with pigtails in splice trays and adaptor panels for patching.
- Pre-terminated cable installed into the subrack and adapter panels for patching.
- MPO/MTP® trunk cable installed to the subrack and connected with MPO/MTP® cassettes. There are 2 types of patch panels within UC9500 Series.
- UC Fixed Type Patch Panel
- UC Drawer Type Patch Panel

UC9500 Fixed Type Patch Panel

The Fixed Type Patch Panel is designed for the scenario which there is not much access requirement for the fibre once it has been terminated within the subrack. It provides better security for the cabling system. It requires less front space of the rack.

Features and Benefits

- Light weight, Sleek design & feel
- Abrasion resistance and highly durability
- 4 slots per 1U for modular cassettes or modular adaptor panels with snap latches
- Blank plate available for unused slots

Technical Data

Maximum number of fibers
- 1U: 96 (cassette), 48 (splice)
- 2U: 192 (cassette), 96 (splice)
- 4U: 384 (cassette), 192 (splice)

Required space envelope (mm)
- 1U: (w) 482 x (d) 300 x (h) 44.5
- 2U: (w) 482 x (d) 300 x (h) 89.0
- 4U: (w) 482 x (d) 402.5 x (h) 178.0

Net Weight (Kg):
- 1U: 3.26 (empty)
- 2U: 6 (empty)
- 4U: 8 (empty)

Max number of outputs patch cords:
- 1U: 48 LC DX with 1.6mm diameter patch cords
- 2U: 96 LC DX with 1.6mm diameter patch cords
- 4U: 192 LC DX with 1.6mm diameter patch cords

Packing Dimensions (mm)
- 1U: (w) 510 x (d) 435 x (h) 110
- 2U: (w) 510 x (d) 435 x (h) 220
- 4U: (w) 510 x (d) 435 x (h) 440

Packed Weight (Kg)
- 1U: 3.8 (empty)
- 2U: 6.5 (empty)
- 4U: 8.5 (empty)

Material:
- 1.2mm thickness steel material (Cold rolled steel plate)
- Surface Finishing: Water Painting

Cable Management:
- For 1RU Sub-Rack
  2xM20 and 2xM16 cable glands and 2x cable through with dust cover at the back

  1x cable through with dust cover each side
- For 2RU Sub-Rack
  4xM20 and 4xM16 cable glands and 4x cable through with dust cover at the back

  1x cable through with dust cover each side
- For 4RU Sub-Rack
  8xM20 and 8xM16 cable glands and 8x cable through with dust cover at the back

  2x cable through with dust cover each side

UC9500 Series Light Weight Fibre Suite

The Drawer Type Patch Panel is designed for the scenario which there is access requirement for the fibre after it has been terminated within the Sub-Rack. The tray can be smoothly pulled out for better access the fibre inside the shelf for easier additional cable installation, fibre splicing, adapter panels or cassettes expansion and adjustment. It provides more flexibility for the cabling system.

Features and Benefits

- Light weight, Sleek design & feel
- Abrasion resistance and highly durability
- 4 slots (1U) for modular cassettes or modular adaptor panels with easy fixtures
- Blank plate available for unused slots
- Patch cords management space at the front with wiring loop each side for patch cords routing
- A front cover to protect the patch cords once they are installed. It can be pivoted down for easy patch cords access
- Supplied with a large label for easy identification and data recording

Technical Data

Maximum number of fibres
- 1U: 96 (cassette), 48 (splice)

Required space envelope (mm)
- 1U: (w) 482 x (d) 300 x (h) 44.5

Net Weight (Kg):
- 1U: 4.0 (empty)

Max number of outputs patch cords:
1U: 48 LC DX with 1.6mm diameter patch cords

Material:
- 1.2mm thickness steel material (Cold rolled steel plate)
- Surface Finishing: Powder Painting

Cable and fibre Management:
- 2xM20 and 2xM16 cable glands and 2x cable through with dust cover at the back
- 2x bending managers in the subrack

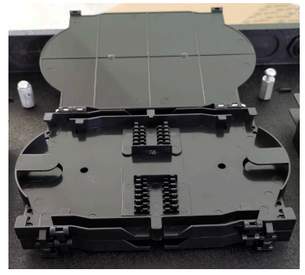
Packing Dimensions (mm)
- 1U: (w) 510 x (d) 435 x (h) 110

Packed Weight (Kg)
- 1U: 4.5 (empty)

Fibre Splice Tray and Cover

Features and Benefits

- Fibre splice trays can be stacked fixed in the subrack
- Each splice tray occupies half U space
- Each splice tray allows max 24 fibre splices
- Fibre splice tray cover is available for better protection
- Colour is black



UC9500 Series Modular Adaptor Panel

Features and Benefits

- Cold rolled steel Plate, thickness 1.2mm
- Powder Coating (water mark)
- Easy snap latches fixtures
- 6x port per panel
- Gongs nails to firmly secure the adaptors
- Adaptor available in
  - LC Duplex or Quadplex
  - SC Simplex or Duplex
  - FC Simplex
  - ST Simplex
  - MPO or MTP® Type A or Type B
- Compatible with UC9500 Series Patch Panels, i.e. PP9510, PP9515, PP9520 and PP9540

UC9500 Series Modular MPO/MTP® Cassette

Features and Benefits

- Recommended for method B 10G MPO channel using Type B MPO Trunk Cable to achieve simple migration to method B 40/100G MPO channel
- Available in Duplex LC
- Available in G657A, OM3 and OM4
- Utilises bend-insensitive fibre
- Plug & Play Installation
- Maximum Packing Density
- 100% Tested
- Utilised with UC9500 series Patch Panel

Technical Data

Module Housing Material:
Aluminium alloy, Thickness 08mm

Module House Surface Finish: Watermark painted

Module Housing Colour: Black

Front Adaptor: Duplex LC with dust cap

Rear Adaptor: MTP® / MPO with dust cap

Adaptor Colours: OM3: AQUA; OM4: VIOLET; SM: BLUE

Assemblies: Preinstalled male MTP® / MPO to fanout LC assemblies inside module

Fibre: Available in G657A, OM3 and OM4

Wiring: Type P Topology (Type A and B are also available)

Durability: 500 mating

Installation temperature: 0°C to +60 °C

Operating Temperature: -20°C to +70°C

Storage & Shipping Temperature: -40°C to +75°C
Feature and Benefits

Standards: ISO/IEC 11801, ANSI/TIA-568-C.3, IEC 61754-20, IEC 61754-7, RoHS Compliant

Performance Data

Superior components, fibres and suitable cable construction are used for the module cassettes to ensure consistent high performance across every manufactured product.

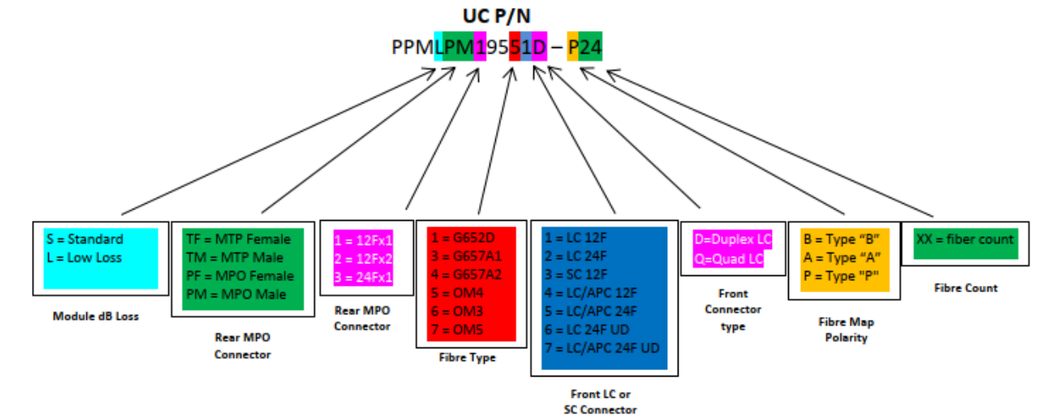
Persisting in strict manufacture processes and using high quality termination equipment ensure achieving consistent low loss terminations performance.

100% of products are physically and optically tested to ensure all the required international standards to be met.

The cassettes are produced in standard or low loss polish procedures. Low loss polish can support better insert loss.

Optical Performance	Process	Insert Loss (MTP® / MPO+LC)	Return Loss (per fibre)
Singlemode	Standard	0.75dB	55dB
	Low Loss	0.5dB	
Multimode	Standard	0.5dB	26dB
	Low Loss	0.35dB	

Modular Cassette Ordering Information



UC9600 Series Ultra High-Density Patch Panel

UCCONNECT® UC9600 series Ultra High-Density Patch Panel is designed to address all the fibre termination and patching requirement for hyper scale date centres.

The chassis consist of cold-rolled steel and aluminium to balance the robust and light weight. They can be installed into 19" / ETSI / ANSI racks. The products have sleek design and feel, anodized surface, abrasion resistance and highly durability.

Each 1U unit has 6 sliding slots to be equipped with modular 24F cassettes providing up to 144F capacity. The cassettes can be configurated as splice to LC or MPO/MTP® fanout to LC. Hence, they are suitable for OSP cable termination, or optical cable plug and play termination and patching.

Available applications include:

- OSP cable terminated and spliced with LC pigtails in splice trays for patching.
- MPO/MTP® pre-term cable connected with MPO/MTP® cassettes for patching.

Features and Benefits

- Light weight design
- Abrasion resistance and highly durability
- Adopt ultra high-density cassettes
- Flexibly capacity design
- Increase fibre connection on demand
- Plug & Play fast installation
- Sliding slots for the cassettes for easy installation and maintenance
- Rear cable support and management shelf
- Patch cord management and protection
- Pocket label convenient for independent label printing and replacement

1U/144F

Technical Data

Maximum number of fibres
- 1U: 144F
- 2U: 288F
- 4U: 576F

Required space envelope (mm)
- 1U: (w) 485 x (d) 470 x (h) 44
- 2U: (w) 485 x (d) 470 x (h) 88
- 4U: (w) 485 x (d) 470 x (h) 176

Net Weight (Kg):
- 1U: 3.7 (empty)
- 2U: 6.4 (empty)
- 4U: 11.2 (empty)

Max number of outputs patch cords:
- 1U: 72 LC DX with 1.6mm diameter patch cords
- 2U: 144 LC DX with 1.6mm diameter patch cords
- 4U: 288 LC DX with 1.6mm diameter patch cords

Packing Dimensions (mm)
- 1U: (w) 539 x (d) 366 x (h) 94
- 2U: (w) 539 x (d) 366 x (h) 139
- 4U: (w) 539 x (d) 366 x (h) 226

Packed Weight (Kg)
- 1U: 3.8 (empty)
- 2U: 6.5 (empty)
- 4U: 8.5 (empty)

Material:
- Front Door: Cold-rolled steel, Thickness = 2mm
- Dust Cover: Aluminium, Thickness = 2 mm
- Matrix: Aluminium, Thickness = 6 mm

Cable Management:
- 1U/2U: 1 rear cable support and management shelf
- 4U: 2 rear cable support and management shelf
- Cassette: patch cords guide

2U/288F

4U/576F

UC9600 Ultra High-Density Cassette

Features and Benefits

- Available in Duplex LC or Uni-boot LC patch cord
- Available in G657A, OM3 and OM4
- Utilises bend-insensitive fibre
- Plug & Play Installation
- Available configuration with 3x8F, 2x12F, 1x24F, Splice
- Universal Type P (Pair-Flipped) MPO/MTP® Cassette (MPO connectivity Method B) is recommended to minimize stocked components
- Type A and B according TIA 568-C.3 available
- 24F Splice cassette available
- Pre-terminate and 100% test from factory
- All cassettes are utilized with UC9600 1U/2U/4U Patch Panel

Technical Data

Module Housing Material: ABS

Module Housing Colour: Black

Front Adaptor: Duplex or Quad LC with dust cap

Rear Adaptor: MTP® / MPO with dust cap

Adaptor Colours: OM3: AQUA; OM4: VIOLET; SM: BLUE

Assemblies: Preinstalled male MTP®/ MPO to fanout LC assemblies inside module

Fibre: Available in G657A, OM3 and OM4

Wiring: Type A and B according TIA 568-C.3 available

Durability: 500 mating

Instalation Temperature: 0ºC to +60ºC

Operating Temperature: -20ºC to +70ºC

Storage & Shipping Temperature: -40ºC to +75ºC

Standards: ISO/IEC 11801, ANSI/TIA-568-C.3, RoHS Compliant

Performance Data

Superior components, fibres and suitable cable construction are used for the module cassettes to ensure consistent high performance across every manufactured product.

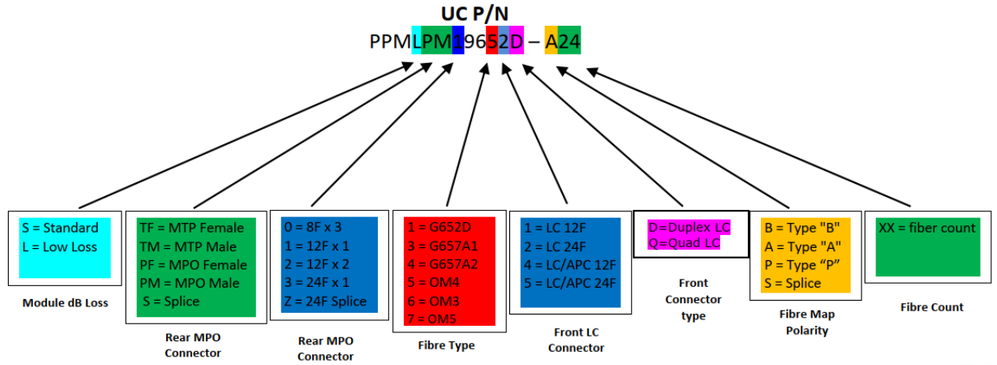
Persisting in strict manufacture processes and using high quality termination equipment ensure achieving consistent low loss terminations performance.

100% of products are physically and optically tested to ensure all the required international standards to be met.

The cassettes are produced in standard or low loss polish procedures. Low loss polish can support better insert loss.

Optical Performance	Process	Insert Loss (MTP® / MPO+LC)	Return Loss (per fibre)
Singlemode	Standard	0.75dB	55dB
	Low Loss	0.5dB	
Multimode	Standard	0.5dB	26dB
	Low Loss	0.35dB	

Modular Cassette Ordering Information



MPO/MTP® Trunk Cable Assemblies

Features and Benefits

- Female (Standard) & Male MPO/MTP Connectors
- Type A, B and C available
- Factory Terminated and Tested
- Lightweight
- High Density

Technical Data

Module Housing Material: ABS

Module Housing Colour: Black

Front Adaptor: Duplex or Quad LC with dust cap

Rear Adaptor: MTP® / MPO with dust cap

Adaptor Colours: OM3: AQUA; OM4: VIOLET; SM: BLUE

Assemblies: Preinstalled male MTP®/ MPO to fanout LC assemblies inside module

Fibre: Available in G657A, OM3 and OM4

Wiring: Type A and B according TIA 568-C.3 available

Durability: 500 mating
Instalation Temperature: 0°C to +60°C

Operating Temperature: -20°C to +70°C

Storage & Shipping Temperature: -40°C to +75°C

Standards: ISO/IEC 11801, ANSI/TIA-568-C.3, RoHS Compliant

Cable Specification								
Standards	LSZH: IEC 60754-1; IEC 60754-2; IEC 61034							
	Flame Retardant: IEC 60332-1; IEC 60332-3-24							
	TIA/EIA 598-C: Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and aqua							
Fibre	Primarycoated fibres							
Fibre colours	TIA/EIA 598-C: Blue, orange, green, brown, grey white, red and black							
Strength member	Ultra high modulus Aramid yarns							
Sheath	Halogen free, flame resistant thermoplastic sheathing compound							
Connector Specification								
Connector Type	MPO/MTP® Push Pull Locking							
Ferrule	Fibre Elite® ferrule, PPS							
Connector Assembly Tension	44N							
Cable Variants	1x8fF/1x12F	1x24F/3x8F	2x12F	36F	32/48F	72F	96F	144F
Nominal dimensions	3.0mm	308mm	9.5mm	9.5mm	9.5mm	12.2mm	14.1mm	18.1mm
Max installation tension	200N	200N	660N	660N	660N	660N	660N	660N
Bend radius	Without tension 10 x OD, Under tension 20 x OD							
Packaging	Lengh ≤ 50m - PE Bag / Lengh > 50m - Drum							
Temperature Range	Operting: -10°C +60°C							
	Storage: -20°C to +70°C							
	Installation: -5°C to +50°C							

Performance Data

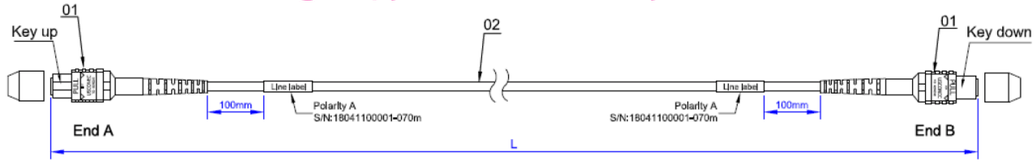
Fibre	Type	Insertion Loss Max.	Return Loss (per fibre)
MM	MPO/MTP®	0.50dB	26dB
		0.35dB	
SM	MPO/MTP®	0.75dB	45dB (UPC)
		0.50dB	55dB (APC)

Type	OM3 (850/1300nm)	OM4 (850/1300nm)	OM5 (850/953/1300nm)	SM (1310/1550nm)
Cable Attenuation (MAX dB/km)	3.0/1.0	3.0/1.0	3.0/2.3/1.0	0.4/0.3
Overfilled Modal (MHz/km)	1500/500	3500/500	3500/1850/500	/
Effective Modal Bandwidth, MIN (MHz/km)	2000	4700	4700/2470	/

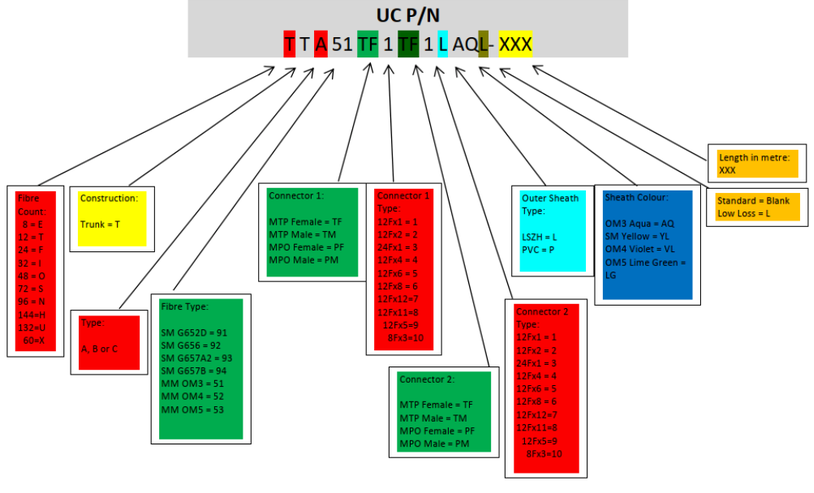
Colour Coding

Item	Color Coding				
	SM	OM1&OM2	OM3	OM4	OM5
Cable	Yellow	Orange	Aqua	Violet	Lime Green

Product Drawing (Type A as example)



MPO/MTP® Trunk Cable Assemblies Ordering Information

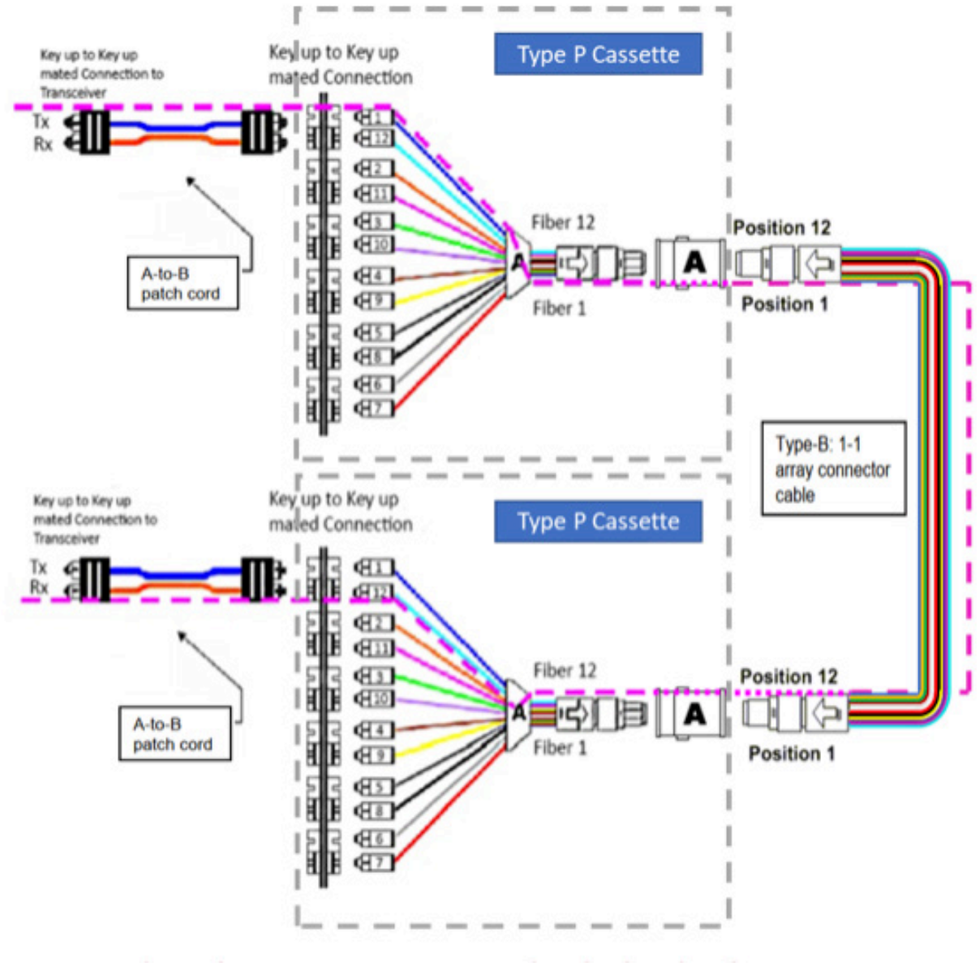


Prysmian Universal Type P Cassette for MPO connectivity Method B

Prysmian recommends MPO connectivity method B to be used across the end to end data links to maintain the polarity for the duplex applications.

With the Universal Modular Type P (Pair-Flipped) MPO/MTP® Cassette, customer can minimise the types of component parts to achieve all the main data centre applications.

Wiring of Prysmian Universal Type P Cassette for MPO connectivity Method B:



Universal Type P Cassette supporting duplex signals

- For duplex applications, total 3 types of component required
  - Type B trunk cable
  - Type P cassette
  - A-to-B LC patch cords

Connectivity Method	Switch Port	Duplex LC Patch Cord	Cassette		Trunk Cable	Cassette		Duplex LC Patch Cord	Switch Port
			Duplex LC	MPO-12 Adapter		MPO-12 Adapter	Duplex LC		
B	RX	A-to-B	Type P Pair - Flipped	Type A	Type B	Type A	Type P Pair - Flipped	A-to-B	TX
	TX								RX

- For parallel applications, total 2 types of component required
  - Type B MPO trunk cables/patch cords
  - Type A adapters

Connectivity Method	Switch Port	MPO Patch Cord	MPO-12 Adapter	Trunk Cable	MPO-12 Adapter	MPO Patch Cord	Switch Post
B	RX	Type B	Type A	Type B	Type A	Type B	TX
	TX						RX

- For duplex to parallel migration, Type B trunk cable to be reused and Type A adapters to replace the Type P cassettes. Total 2 types of component required same as the above table.

Linking the future

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