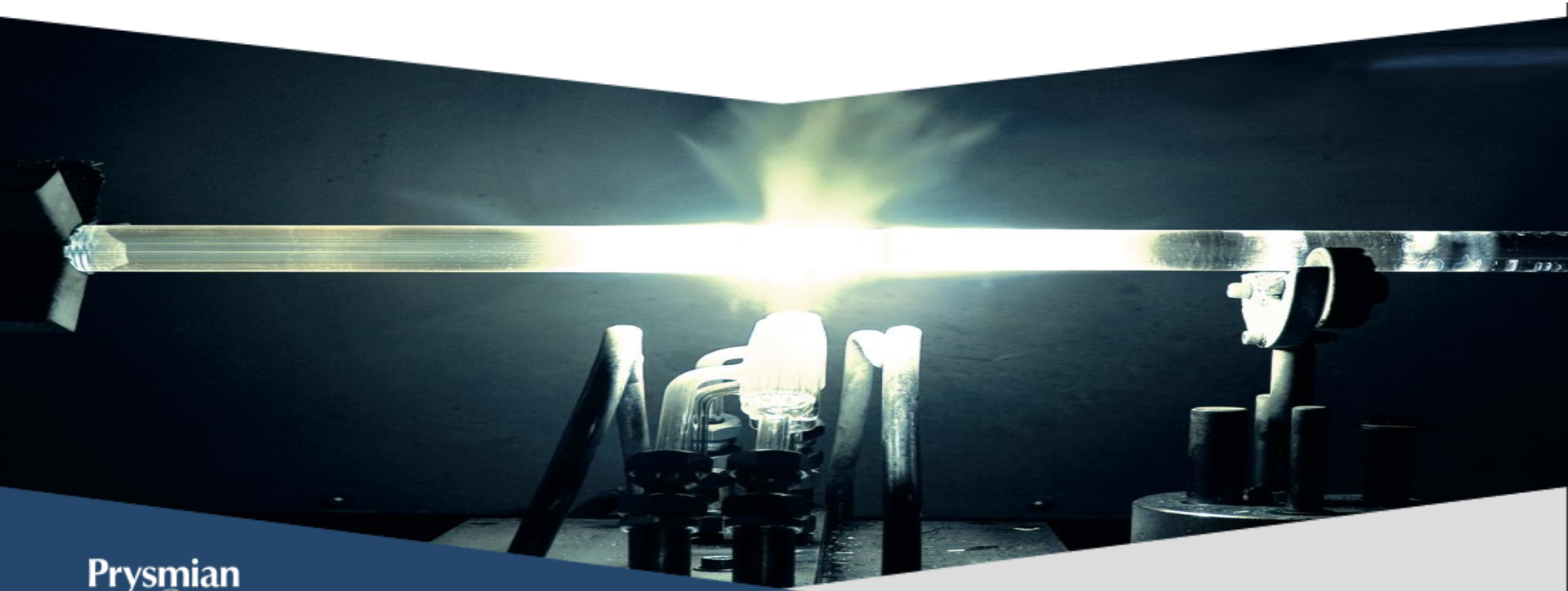
New UMJ; Refreshed xMJ Joint Family



Prysmian Group

Joints and accessories

UMJ, LT

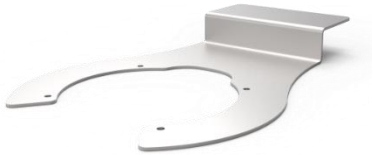
CMJ, Ribbon and LT

MMJ, Ribbon and LT

LMJ, Ribbon and LT

Port Kits: Various

Splice Trays: Various



Brackets: Various

Passive devices, splitters/WDM

Introduction

Introduction to the UMJ the newest member of the xMJ family of joints

Overview and new developments for the CMJ/MMJ

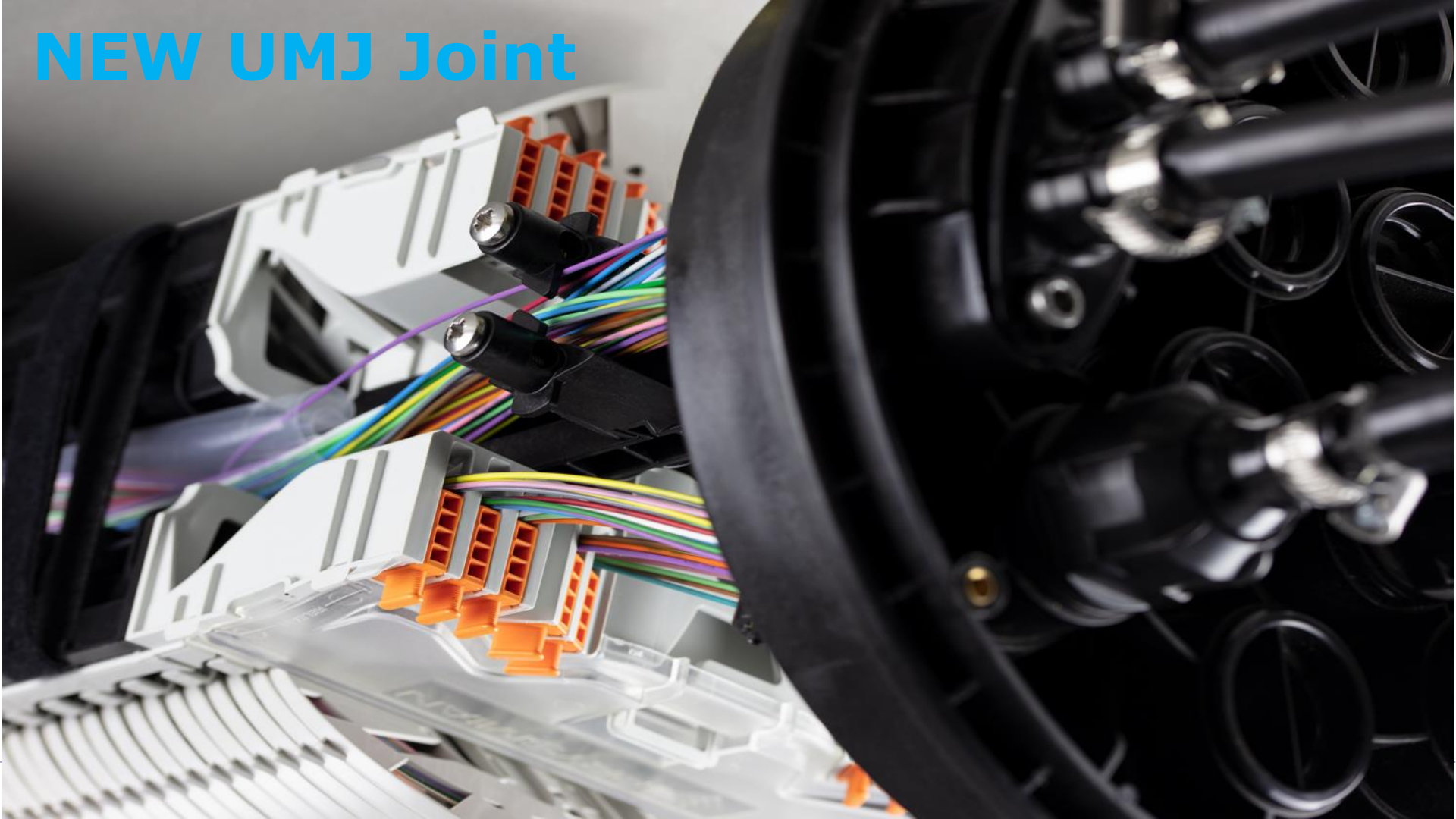
Overview and new developments for the LMJ

Prysmian Connectivity Capabilities

Check list for joints, questions to ask

Comparison table for xMJ joint family

NEW UMJ Joint



NEW Ultra compact Multifunction Joint (UMJ) OP070-01

The UMJ is a small joint accommodating up to 72f. Using the same circular ports as the CMJ, MMJ and LMJ, we can reduce the number of spares glands required. The slim line bracket has been designed for the UMJ to reduce the footprint required, thus making mounting in congested pits easier; this bracket can also be used on the CMJ and MMJ.

Key Features

- IP68 sealed.
- Contains 6 splice trays each able to accommodate up to 12 2.2mm splices.
- Maximum capacity – 72f.
- Ability to house up to 4 splitters.
- Splice trays hinge upwards individually, allowing easy access to spliced fibres.
- Integrated loop storage basket for mid- span installations with flextube A1/A2 fibres
- Mechanical gland system to seal and grip cables.
- Can be used in aerial or underground networks
- Reduced footprint with slim line bracket to allow fixing in small spaces
- Integrated fibre routing manifold

UMJ – New Developments

Flat Bracket

Wall mounting bracket that can allow the UMJ to site closer to the wall.

Can be mounted underground or aerially

Perfect for congested pits where there is limited space

Tested to the IP68 specification

Made from 40% glass filled nylon for added strength

Can be used on the UMJ, CMJ and the MMJ

UMJ – New Developments

Oval port for CMJ / MMJ

New oval port to allow reduced cost

Anti torsion device in line with LMJ product to continue continuity

Removed all metal part to reduce cost

In Final stage of testing, launched Dec 2019

4 Way Mini Cable Gland

A 4 way gland to accommodate mini cables from 6mm to 8mm. The gland needs to have four separate strength member clamps and also provide torsion relief. Incremental build needs to be possible via use of blanking bars.

Other Projects

Gland Removal tool

Allow easy removal of the circular glands with cables installed

Two piece solution for captive removal

8 Way Gland for 2.5 - 4.2mm cables

Cable gland for 8 drop cables

2.5mm to 3.6mm in diameter can be fitted in to this gland

Compression seal with cable guide below to help route exiting cables

8way flat drop mechanical seal without the messenger wire

FTTH application for home drop solutions

UMJ – Oval Port Entry Glands

Heat Shrink Entry Kit

The CMJ Oval Port Heat Shrink Entry Kit is used to install a loop of cable into the oval port of the CMJ. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays. The cables are sealed into the oval port using a heat shrink sleeve.

Mechanical Entry Kit

The CMJ Oval Port Mechanical Entry Kit is used to install a loop of cable into the oval port of the CMJ. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays. The cables are sealed into the oval port using a mechanical gland system comprising of two plates and a rubber block that fits inside the oval port of the joint.

Prysmian Part No.	Gland Type	Sealing Type	Min Cable Ø	Max Cable Ø
XJTSC02028	Oval	Mechanical	5.0	7.0
XJTSC02029	Oval	Mechanical	7.1	9.0
XJTSC02030	Oval	Mechanical	9.1	11.0
XJTSC02031	Oval	Mechanical	11.1	13.0
XJTSC01896	Oval	Mechanical	13.1	14.8

UMJ – Circular Port Entry Glands

Circular port entry glands are used to install cables into one of the 4 circular ports of the CMJ base. The glands can be installed onto the cable and then simply pushed into the base of the joint. Multi-way glands are available to install multiple smaller cables into one circular port.

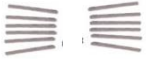
Prysmian Part No.	Gland Type	Number of Entries	Min Cable Ø	Max Cable Ø	Used For
XJTSC02278	Single	1	4.0	7.0	Single cable with Aramid or CSM
XJTSC01754	Single	1	7.1	20.0	Single cable with Aramid or CSM
XJTSC02193	Single	1	20.1	23.0	Single cable with Aramid or CSM
XJTSC02186	Dual	2	5.0	9.0	For interface with flexible conduit
XJTSC01755	Quad	4	5.0	7.0	Up to four cables with Aramid
XJTSC02767	Quad	4	4.0	6.0	With CSM retention for mini cables
XJTSC02768	Quad	4	5.0	7.0	With CSM retention for mini cables
XJTSC02769	Quad	4	7.0	8.5	With CSM retention for mini cables
XJTSC02260	8 Way	8	3.0	3.0	Up to 8 cables - 3.0mm Ø
XJTSC01878	8 Way	8	2.0x3.0 with messenger		Up to 8 flat cables 2.0 x 3.0mm
XJTSC02960	8 Way	8	2.0x3.0 without Messenger		Up to 8 flat cables 2.0 x 3.0mm
XJTSC03048	8 Way	8	2.0	3.0	Up to 8 cables 2.0 - 3.0mm Ø
XJTSC03049	8 Way	8	2.5	4.2	Up to 8 cables 2.5 – 4.2mm Ø

UMJ – Parts

Accessories

Item	Prysmian Part No.	Description	Image
POLE / WALL MOUNTING BRACKET	**XJTSC00136**	The Pole / Wall Mounting Bracket is a universal bracket fitted to the clamp of the joint. It is used to mount the closure to a pole, wall, or wall of a footway box and allows storage in the horizontal or vertical position. Can be supplied with the joint or available as an upgrade kit.	
SUPPORT TOOL	**XJTSC00075**	The Support Tool allows the user to support the Joint within a portable workbench. The bracket is designed to fit most commercially available workbenches.	
FLAT MOUNTING BRACKET	**XJTSC03020**	The Pole / Wall Mounting Bracket is a universal bracket fitted to the clamp of the joint. It is used to mount the closure to a pole, wall, or wall of a footway box and allows storage in the horizontal or vertical position. Can be supplied with the joint or available as an upgrade kit.	

UMJ – Parts - Continued

EXTERNAL TUBE FIXATION BRACKET	**XJTSC02955**	The External tube fixation bracket is used to offer additional retention and support to cables and tubes	
EMERGENCY PORT KIT	**XKTSC00401**	The Emergency Port Entry Kit is used to install an additional cable into one of the two small circular ports of the joint. The kit comprises of a cable heat shrink, aluminium foil and a alcohol wipe.	
SPLITTERS	**XSPSG00002 (1X4)** **XSPSG00003 (1X8)** **XSPSG00004 (1X16)** **XSPSG00005 (1X32)**	A range of optical splitters are available to install into the joint. The splitters have 2 metre input and output legs with 900 micron G657A1 fibre. For full technical information on the splitters refer to data sheet AC005.	
SPLICE PROTECTORS 1.3	**XKTSC01284 (Pk OF 12)** **XPESC00057 (Pk of 50)**	Splice protectors are used to protect the fibre splice. They are 1.3mm in diameter and 30mm in length.	
SPLICE PROTECTORS 2.2	**XKTSC00050 (Pk OF 12)** **XPESC00053 (Pk of 50)**	Splice protectors are used to protect the fibre splice. They are 2.2mm in diameter and 45mm in length.	
SPLICE PROTECTORS Crimp	**XKTSC00079 (Pk of 12)** **XKTSC00078 (Pk of 50)**	Splice protectors are used to protect the fibre splice. They are 1.3mm x 3.2mm and 30mm in length.	
GLAND SPANNER	**XJTSC02320**	The gland spanner is used to tighten the cable glands used for circular port entry. The spanner has a flat profile on one end and a cupped profile on the other end. The cupped profile is used to tighten or loosen a gland already installed into the joint in cases where additional cable entry is required.	

UMJ – Parts - Continued

SILICONE GREASE	**XBFSC00260 (Pack OF 5)**	Grease is used when installing a cable into one of the entry glands. A sachet of grease is supplied with each gland. The purpose of this spare tube of grease is for use adding additional cables into the 4 Way Gland at a later date.	
GLAND REMOVAL TOOL	**XJTSC02964 (Pack OF 10)**	The Gland removal tool can be used to remove circular port entry glands from the joint base.	

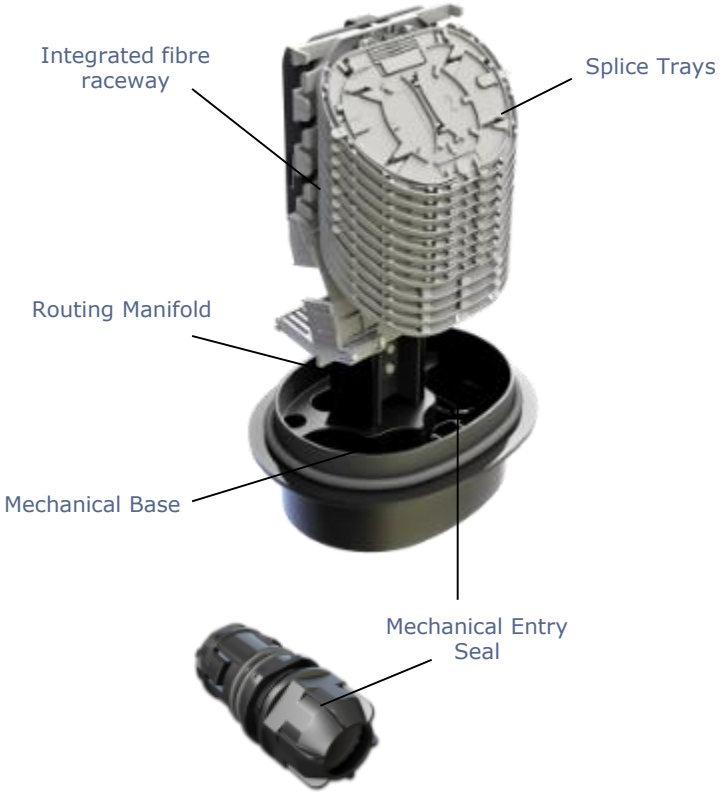
CMJ/MMJ Joints

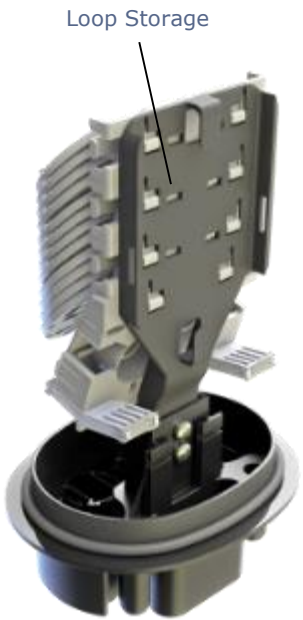
CMJ – Key Features

OP053-19

Key Features:

- Can accommodate 288 single or up to 384 (8F) ribbon splices.
- Mechanical cable sealing for circular port entries.
- Oval port entry uses heat shrink or mechanical system.
- Loop storage facility for cable elements.
- Accommodates 24 SE, 48 SC or 12 ribbon trays.
- SC trays are the double tray with two storage areas in one tray height.
- No need to over-sleeve elements with transport tubes. Route any fibre to any tray with raceway.
- Manifold system below trays allows fibre direction to be changed and can accommodate optical splitters.



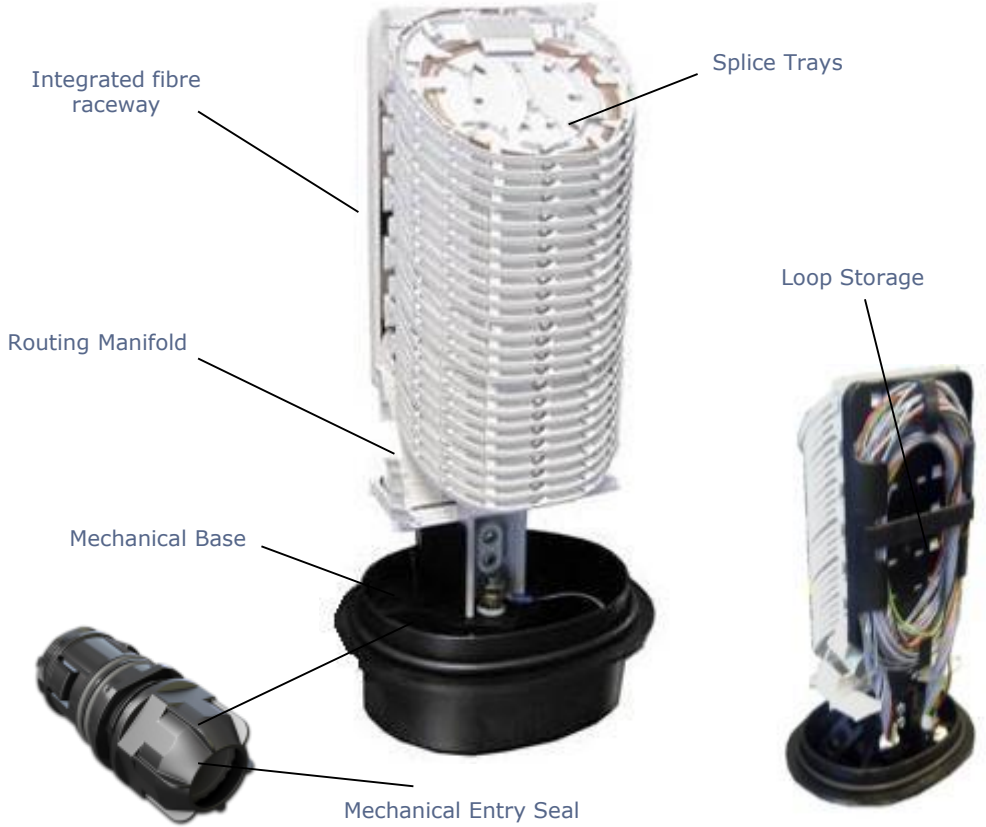


MMJ – Key Features

OP058-12

Key Features:

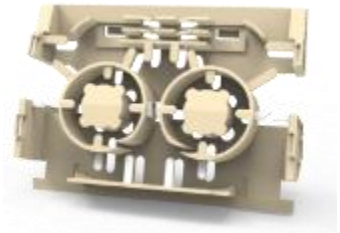
- Can accommodate 288 single or up to 384 (8F) ribbon splices.
- Mechanical cable sealing for circular port entries.
- Oval port entry uses heat shrink or mechanical system.
- Loop storage facility for cable elements.
- Accommodates 24 SE, 48 SC or 12 ribbon trays.
- SC trays are the double tray with two storage areas in one tray height.
- No need to over-sleeve elements with transport tubes. Route any fibre to any tray with raceway.
- Manifold system below trays allows fibre direction to be changed and can accommodate optical splitters.



CMJ/ MMJ – New Developments

Manifold MK2

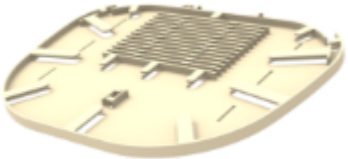
A new manifold for the CMJ / MMJ. The manifold needs to accommodate four splitters and must have dark fibre storage in the centre of the two mandrels. More protection is required for the elements at the oval port entry position.



Splice Tray 2.2mm

A splice tray for the CMJ / MMJ to accommodate 2.2mm splice protectors. The tray accepts up to 12 of the larger splice protectors and a splitter.

Can accommodate 1 x splitter 4mm x 4mm x 40mm



CMJ/ MMJ – New Developments

Strand Wire Bracket

A bracket to enable the CMJ or MMJ to be fixed to a strand wire. The bracket fits to the joint clamp and around the cap and is secured to the wire using two screw clamps.

Crimp Splice / Splitter Tray

A splice tray for the CMJ / MMJ to accommodate crimp splice protectors. The tray accepts up to 12 splice protectors. The tray can also accommodate a splitter 4mm x 4mm footprint.

4 Way Mini Cable Gland

A 4 way gland to accommodate mini cables from 6mm to 8mm. The gland needs to have four separate strength member clamps and also provide torsion relief. Incremental build needs to be possible via use of blanking bars.

CMJ / MMJ – New Developments

Gland Removal tool

Allow easy removal of the circular glands with cables installed

Two piece solution for captive removal

8 Way Gland for 2.5 - 3.6mm cables

Cable gland for 8 drop cables

2.5mm to 3.6mm in diameter can be fitted in to this gland

Compression seal with cable guide below to help route exiting cables

8way flat drop mechanical seal without the messenger wire

FTTH application for home drop solutions

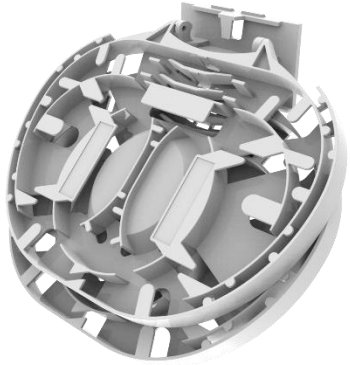
CMJ / MMJ – New Developments

Ribbon splice trays

Ribbon trays and hinge plate for the CMJ and MMJ closure to support the sale of ribbon cables to existing customers

Flexible ribbon cables are also changing the way networks are being built, these trays allow the splicing for FR cables

Capacity will be 144F for CMJ and 288F for MMJ



Oval port for CMJ / MMJ

New oval port to allow reduced cost

Anti torsion device in line with LMJ product to continue continuity

Removed all metal part to reduce cost

In Final stage of testing, launched Dec 2019

CMJ / MMJ – Flat Bracket

Flat Bracket

Wall mounting bracket that can allow the UMJ to site closer to the wall.

Can be mounted underground or aerially

Perfect for congested pits where there is limited space

Tested to

Made from 40% glass filled nylon for added strength

Can be used on the UMJ, CMJ and the MMJ

CMJ / MMJ – Oval Port Entry Glands

Heat Shrink Entry Kit

The Oval Port Heat Shrink Entry Kit is used to install a loop of cable into the oval port of the joint. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays. The cables are sealed into the oval port using a heat shrink sleeve.

Mechanical Entry Kit

The Oval Port Mechanical Entry Kit is used to install a loop of cable into the oval port of the joint. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays. The cables are sealed into the oval port using a mechanical gland system comprising of two plates and a rubber block that fits inside the oval port of the joint.

Prysmian Part No.	Gland Type	Sealing Type	Min Cable Ø	Max Cable Ø
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XJTSC02031	Oval	Mechanical	11.1	13.0
XJTSC01896	Oval	Mechanical	13.1	14.8

CMJ / MMJ – Circular Port Entry Glands

Circular port entry glands are used to install cables into one of the 4 circular ports of the base. The glands can be installed onto the cable and then simply pushed into the base of the joint. Multi-way glands are available to install multiple smaller cables into one circular port.

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XJTSC02767	Quad	4	4.0	6.0	With CSM retention for mini cables
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XJTSC02260	8 Way	8	3.0	3.0	Up to 8 cables - 3.0mm Ø
XJTSC01878	8 Way	8	2.0x3.0 with messenger		Up to 8 flat cables 2.0 x 3.0mm
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XJTSC03048	8 Way	8	2.0	3.0	Up to 8 cables 2.0 - 3.0mm Ø
XJTSC03049	8 Way	8	2.5	4.2	Up to 8 cables 2.5 – 4.2mm Ø

CMJ / MMJ – Parts

Accessories

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SUPPORT TOOL	**XJTSC00075**	The Support Tool allows the user to support the Joint within a portable workbench. The bracket is designed to fit most commercially available workbenches.	
FLAT MOUNTING BRACKET	**XJTSC03020**	The Pole / Wall Mounting Bracket is a universal bracket fitted to the clamp of the joint. It is used to mount the closure to a pole, wall, or wall of a footway box and allows storage in the horizontal or vertical position. Can be supplied with the joint or available as an upgrade kit.	

CMJ / MMJ – Parts - Continued

EXTERNAL TUBE FIXATION BRACKET	**XJTSC02955**	The External tube fixation bracket is used to offer additional retention and support to cables and tubes	
EMERGENCY PORT KIT	**XKTSC00401**	The Emergency Port Entry Kit is used to install an additional cable into one of the two small circular ports of the joint. The kit comprises of a cable heat shrink, aluminium foil and a alcohol wipe.	
SPLITTERS	**XSPSG00002 (1X4)** **XSPSG00003 (1X8)** **XSPSG00004 (1X16)** **XSPSG00005 (1X32)**	A range of optical splitters are available to install into the joint. The splitters have 2 metre input and output legs with 900 micron G657A1 fibre. For full technical information on the splitters refer to data sheet AC005.	
SPLICE PROTECTORS 1.3	**XKTSC01284 (Pk OF 12)** **XPESC00057 (Pk of 50)**	Splice protectors are used to protect the fibre splice. They are 1.3mm in diameter and 30mm in length.	
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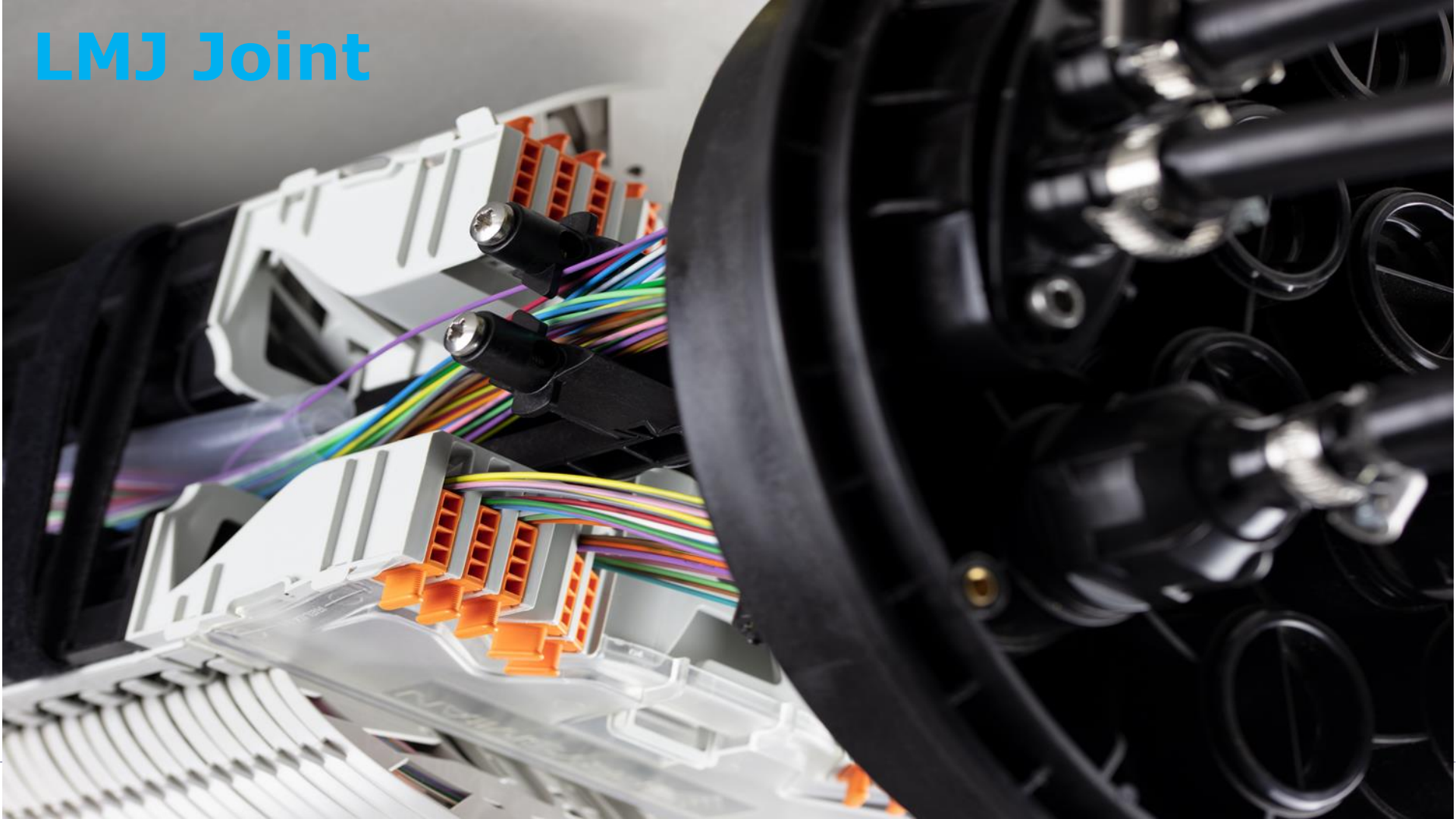
SPLICE PROTECTORS Crimp	**XKTSC00079 (Pk of 12)** **XKTSC00078 (Pk of 50)**	Splice protectors are used to protect the fibre splice. They are 1.3mm x 3.2mm and 30mm in length.	
GLAND SPANNER	**XJTSC02320**	The gland spanner is used to tighten the cable glands used for circular port entry. The spanner has a flat profile on one end and a cupped profile on the other end. The cupped profile is used to tighten or loosen a gland already installed into the joint in cases where additional cable entry is required.	

CMJ / MMJ – Parts - Continued

SILICONE GREASE	**XBFSC00260 (Pack OF 5)**	Grease is used when installing a cable into one of the entry glands. A sachet of grease is supplied with each gland. The purpose of this spare tube of grease is for use adding additional cables into the 4 Way Gland at a later date.	
GLAND REMOVAL TOOL	**XJTSC02964 (Pack OF 10)**	The Gland removal tool can be used to remove circular port entry glands from the joint base.	

LMJ Joint



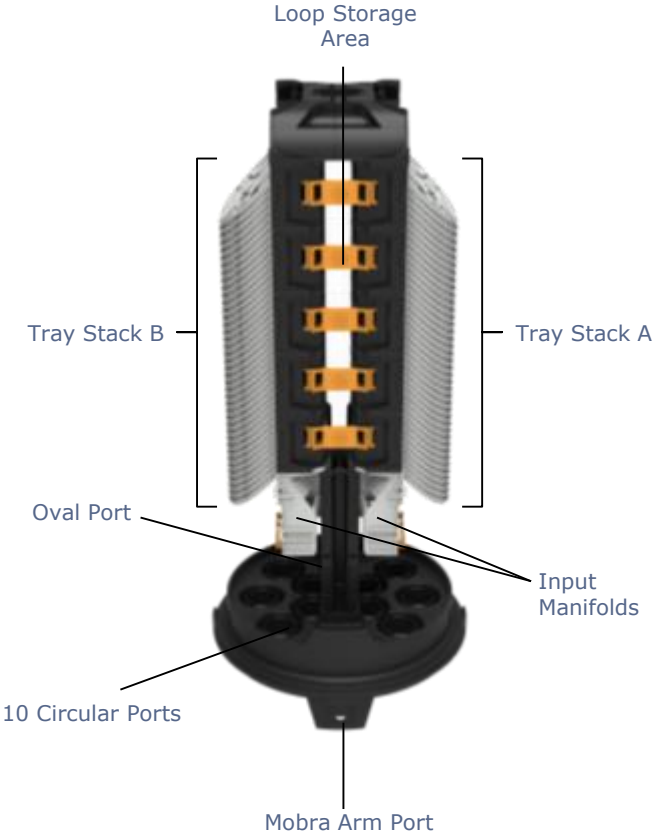
LMJ – Key Features

OP058-09

Key Features:

- Mechanical cable sealing.
- Up to 276f MLT cable loop storage.
- Up to 720f Flextube loop storage.
- Modular system.
- Up to 112 trays (SE or SC) or 56 ribbon in largest cap size.
- Splice trays for 2.2mm or 1.3mm splice protectors.
- Full flexibility for fibre routing to either side of stack. Any fibre can be routed to any tray.
- Capacity of up to 4032 single fibres or 2688 12f ribbons.
- Input manifolds for stack to stack routing and fibre reversal.
- Can accommodate a range of splitter modules.
- Sealed to IP68.

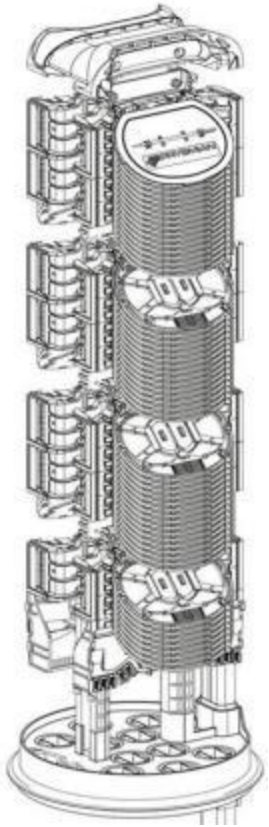
Mechanical Seal



LMJ – Key Features

Key Features:

- Fully modular.
- Tray stacks can be added as required.
- Top section can be removed and further trays and back plates can be added.
- Top section is then re-fitted.
- Three cap sizes available: -
    - Small cap up to 48 trays
    - Medium cap up to 80 trays
    - Large cap up to 112 trays
- Expansion kits available for field upgrade.
- Closure supplied as empty chassis and trays and kits are added as required.
- Closures can also be pre-configured under a unique part number.



LMJ – New Developments

Heat Shrink Port

A port to enable large cables to be accommodated in the LMJ. The port allows a heat shrink to be applied to large and non round cables. The port plugs into the base of the LMJ in the same manner as a cable gland.

Small Loop Guide Cover

A loop guide cover for the small joint. The cover is used to enclose the loop guide section of the joint. Currently a cover only exists for the medium sized closure.

LMJ – New Developments

LMJ Handles

A handle to ease lifting of the LMJ when fully loaded and stored in a pit. The handle should wrap around the closure and lock into place. The idea is to have two handles per joint.

LMJ Oval Port 18 to 21.5mm

A new oval port cable entry for the LMJ to manage cable with diameter between 18mm and 20mm. The current LMJ oval port only enables cables up to 18mm to be installed into the joint.

LMJ – New Developments

Ribbon Tray

A ribbon tray and module for use in the LMJ. A new module back plate and splice tray are required to splice up to two ribbons per tray. Each tray will be twice the depth of the current tray so the ribbon module will need to be a 2 tray module. Can also be used for handling two splitters and 24 heat shrink splice protectors.

4 Way Mini Cable Gland

A 4 way gland to accommodate mini cables from 6mm to 8mm. The gland needs to have four separate strength member clamps and also provide torsion relief. Incremental build needs to be possible via use of blanking bars.

LMJ – New Developments

Flextube Loop Guide Manager

A loop guide to manage micro module cables in the LMJ joint. The guide needs to control and bend manage the micro modules and needs to be adjustable to ensure it can be used with any size LMJ.

Flextube Mini Cable Gland

A new cable gland dedicated to Flextube cables. The gland has a second grip point at the top and a locking collar to prevent further movement of the cable or the cable gland.

Other Projects

Gland Removal tool

Allow easy removal of the circular glands with cables installed

Two piece solution for captive removal

8 Way Gland for 2.5 – 4.2mm cables

Cable gland for 8 drop cables

2.5mm to 3.6mm in diameter can be fitted in to this gland

Compression seal with cable guide below to help route exiting cables

8way flat drop mechanical seal without the messenger wire

FTTH application for home drop solutions

Other Projects

Tube anchor bracket

Allowing the fixing of drop tubes in to the joint

Fixing via the mobra port

Pit Mounting bracket

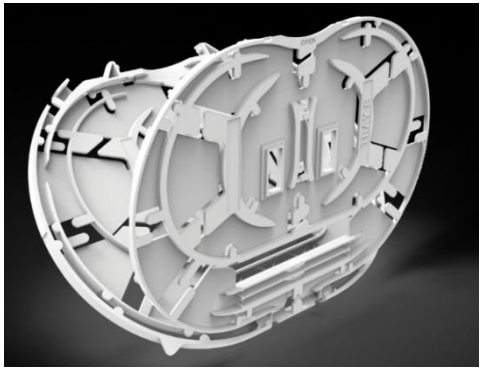
Alternative pit mounting solution for LMJ

Other Projects

2.2mm single circuit splice trays

Allows extra functionality/flexibility.

Allows up to 4 fibres per tray with 2.2mm splice protectors



Top of joint splitter manifold

Up to 4 x 2 x 32 way splitters

Allowing extra capacity on splice trays as you are not using trays for the splitters

Allows routing to either side for easy routing

LMJ – Mechanical Oval port kits

The LMJ Oval Port Mechanical Entry Kit is used to install a loop of cable into the oval port of the LMJ. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays. The cables are sealed into the oval port using a mechanical gland system comprising of two plates and a rubber block that fits inside the oval port of the joint. It is important to order the correct kit dependant on the diameter of the cables to be sealed.

Prysmian Part No.	Gland Type	Sealing Type	Min Cable Ø	Max Cable Ø
XJTSC02382	Oval	Mechanical	6.0	8.0
XJTSC02269	Oval	Mechanical	8.1	10.0
XJTSC02270	Oval	Mechanical	10.1	12.0
XJTSC02271	Oval	Mechanical	12.1	14.0
XJTSC02272	Oval	Mechanical	14.1	16.0
XJTSC02273	Oval	Mechanical	16.1	18.0
XJTSC02555	Oval	Mechanical	18.1	20.0
XJTSC02556	Oval	Mechanical	20.1	21.5

LMJ – Circular Port Entry Glands

Circular port entry glands are used to install cables into one of the 4 circular ports of the CMJ base. The glands can be installed onto the cable and then simply pushed into the base of the joint. Multi-way glands are available to install multiple smaller cables into one circular port.

Prysmian Part No.	Gland Type	Number of Entries	Min Cable Ø	Max Cable Ø	Used For
XJTSC02278	Single	1	4.0	7.0	Single cable with Aramid or CSM
XJTSC01754	Single	1	7.1	20.0	Single cable with Aramid or CSM
XJTSC02193	Single	1	20.1	23.0	Single cable with Aramid or CSM
XJTSC02186	Dual	2	5.0	9.0	For interface with flexible conduit
XJTSC01755	Quad	4	5.0	7.0	Up to four cables with Aramid
XJTSC02767	Quad	4	4.0	6.0	With CSM retention for mini cables
XJTSC02768	Quad	4	5.0	7.0	With CSM retention for mini cables
XJTSC02769	Quad	4	7.0	8.5	With CSM retention for mini cables
XJTSC02260	8 Way	8	3.0	3.0	Up to 8 cables - 3.0mm Ø
XJTSC01878	8 Way	8	2.0x3.0 with messenger		Up to 8 flat cables 2.0 x 3.0mm
XJTSC02960	8 Way	8	2.0x3.0 without Messenger		Up to 8 flat cables 2.0 x 3.0mm
XJTSC03048	8 Way	8	2.0	3.0	Up to 8 cables 2.0 - 3.0mm Ø
XJTSC03049	8 Way	8	2.5	4.2	Up to 8 cables 2.5 – 4.2mm Ø

LMJ – Splicing Modules

Splicing modules are available to be installed into the LMJ. Single element modules for 12f, 24f AND 36F per tray can be utilised using 1.3mm splice protectors. A 12f per tray module is also available for 2.2mm splice protectors. Single circuit modules have double the tray capacity in the same space envelope. This is achieved using a double splice tray where each tray unit incorporates a hinged second tray within the first tray. Each SC tray can accommodate 4 spliced fibres. A crimp splice tray is also available (using the same tray as 36f). The 36f tray can also be used for 12f and 24f. When used as a 12f tray splice protectors no longer need to be stacked.

Prysmian Part No.	Tray Type	Splice Protector	No of Trays	Fibres per Tray	Fibre Capacity	Tray Positions Used
XJTSC02144	Single Element 12	1.3mm x 30mm	4	12	48	4
XJTSC02262	Single Element 12	2.2mm x 45mm	4	12	48	4
XJTSC02584	Single Element 16	2.2mm x 45mm	4	16	64	4
XJTSC02261	Single Element 24	1.3mm x 30mm	4	24	96	4
XJTSC02468	Single Element 36	1.3mm x 30mm	4	36	144	4
XJTSC02145	Single Circuit *	1.3mm x 30mm	8	4	32	4
XJTSC02468	Crimp	Crimp	4	12	48	4
XJTSC02582	Ribbon	Ribbon	2	24	48	4
XJTSC02583	Micro Module	1.3mm x 30mm	2	48	96	4

* Single circuit trays are double trays where each tray unit comprises of a splice tray with a hinged inner splice tray providing two trays in a single tray footprint, where each of the two trays can accommodate 4 splices.

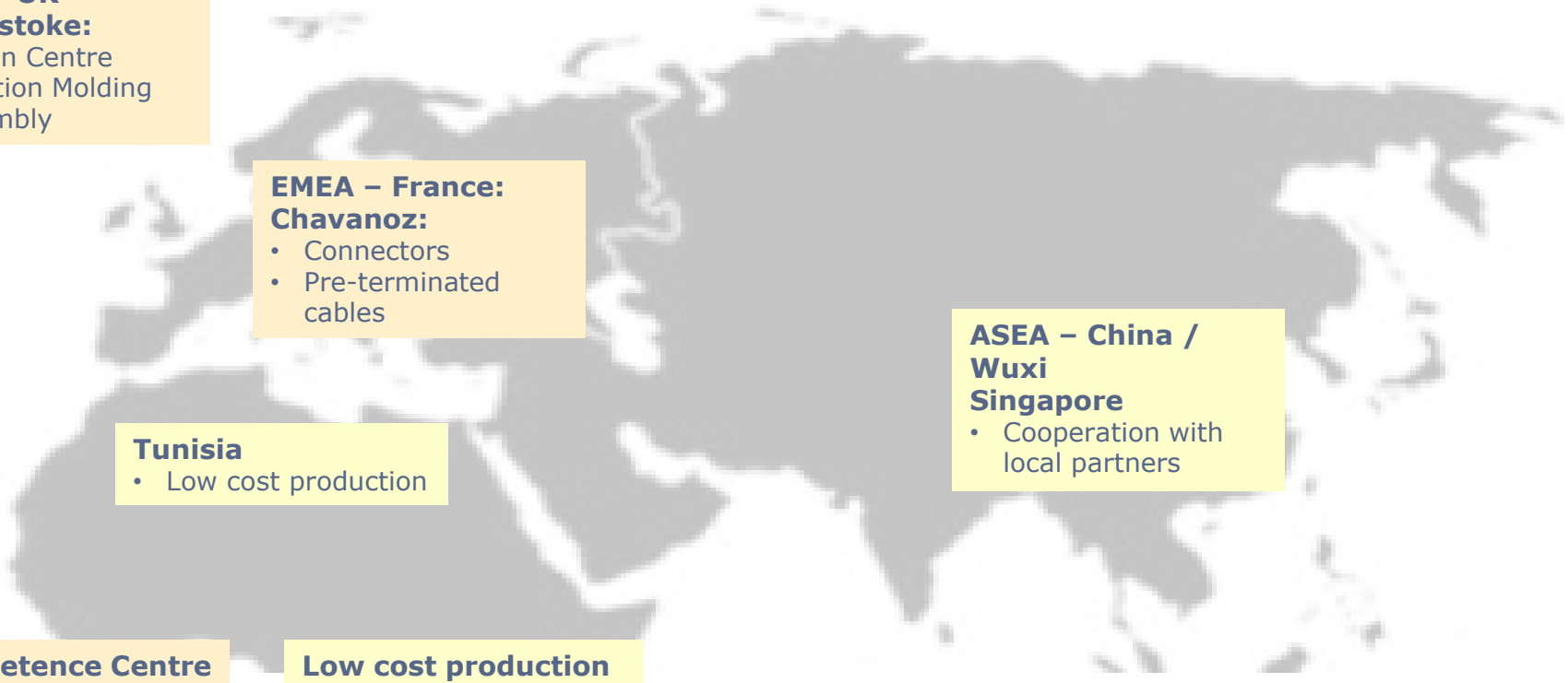
LMJ – Splitter Modules

Splitter modules can be installed into the LMJ. The splitter modules are supplied with a splitter and the input fibre pre-installed into the bottom tray and the output fibres installed into a number of trays above depending on the size of the splitter. The splitter input tray is coloured green. Standard splitters use G657A1 fibre..

Splitter Ratio	Tray Type	Input Tray	Output Trays	Spare Trays	Outputs per Tray	Splice Protector	Trays Used
1 x 4	SE12	1	1	2	4	1.3mm x 30mm	4
1 x 4	SC *	1	1	4	4	1.3mm x 30mm	4
1 x 8	SE12	1	1	2	8	1.3mm x 30mm	4
1 x 8	SC *	1	2	4	4	1.3mm x 30mm	4
1 x 16	SE12	1	2	1	8	1.3mm x 30mm	4
1 x 16	SC *	1	4	2	4	1.3mm x 30mm	4
1 x 32	SE12	1	4	0	8	1.3mm x 30mm	5
1 x 32	SC *	1	8	0	4	1.3mm x 30mm	5

Prysmian Capabilities

Competency Map – Connectivity



EMEA – UK Bishopstoke:
- Design Centre
- Injection Molding
- Assembly

EMEA – France: Chavanoz:
- Connectors
- Pre-terminated cables

Tunisia
- Low cost production

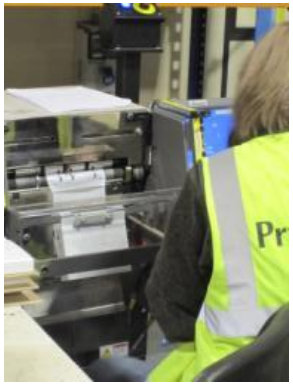
ASEA – China / Wuxi Singapore
- Cooperation with local partners

Competence Centre

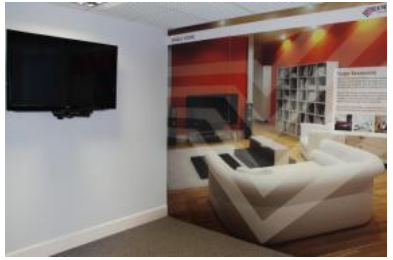
Low cost production

Connectivity – Injection Moulding at Bishopstoke

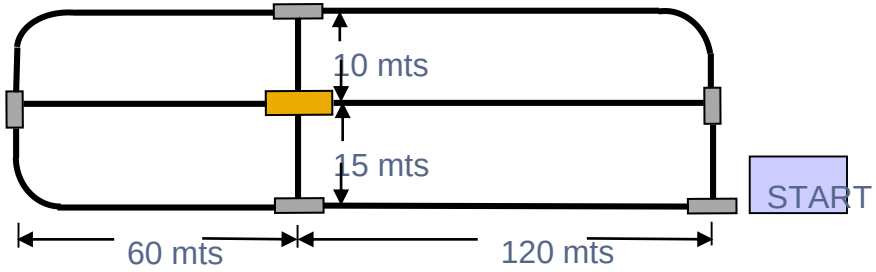
Connectivity – Assembly, Test and Design Bishopstoke

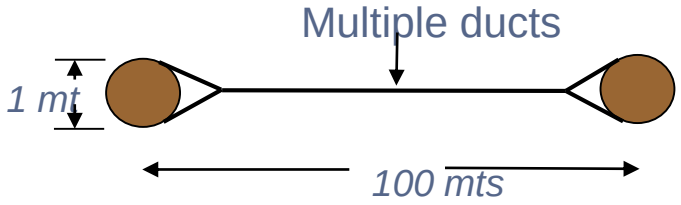


Connectivity – Demo Room Bishopstoke



Connectivity – Test Facilities Bishopstoke





Check list for joints, questions to ask

Check list for joints

EXTERNAL JOINTS		
1	Should the joint to be Dome or In Line?	
2	Are splice trays to be Single Element, Single Circuit or Ribbon, if ribbon how many fibres in the ribbon?	
3	What type and size of splice protector is used?	
4	Is an oval port required for mid span access?	
5	What is the total fibre capacity required?	
6	How many cable entries are required?	
7	Are cable entries to be heat shrink or mechanical?	
8	What are the diameters of input cables?	
9	What are the diameters of output cables?	
10	Where will the joint be mounted, underground aerial (pole or wall) or directlty buried	
11	Are splice protectors to be supplied with the joint?	
12	Any passive devices required, splitters/WDM’s?	

Comparison chart

Comparison chart

			UMJ	CMJ	MMJ	LMJ (S)	LMJ (M)	LMJ (L)
Accessability								
No of ports			5	5	5	11	11	11
Drop ports			4	4	4	10	10	10
Oval ports			1	1	1	1	1	1
Cable size and range								
Oval ports mm			7 to 21	7 to 21	7 to 21	6 to 21.5	6 to 21.5	6 to 21.5
Drop ports mm			2 to 23	2 to 23	2 to 23	2 to 23	2 to 23	2 to 23
Maximium no of trays								
Single splice			6	12	24	48	80	112
Ribbon 4F				6	12	24	40	56
Ribbon 8F				6	12	24	40	56
Ribbon 12F				6	12	24	40	56
Maximum number of fibre splices								
SE 12			72	144	288	576	960	1344
SE24						1152	1920	2688
SE36						1728	2880	4032
SC			48	96	192	384	640	896
Ribbon 4F				96	192	384	640	896
Ribbon 8F				192	384	768	1280	1792
Ribbon 12F				144	288	1152	1920	2688

Thank you!

Prysmian Group