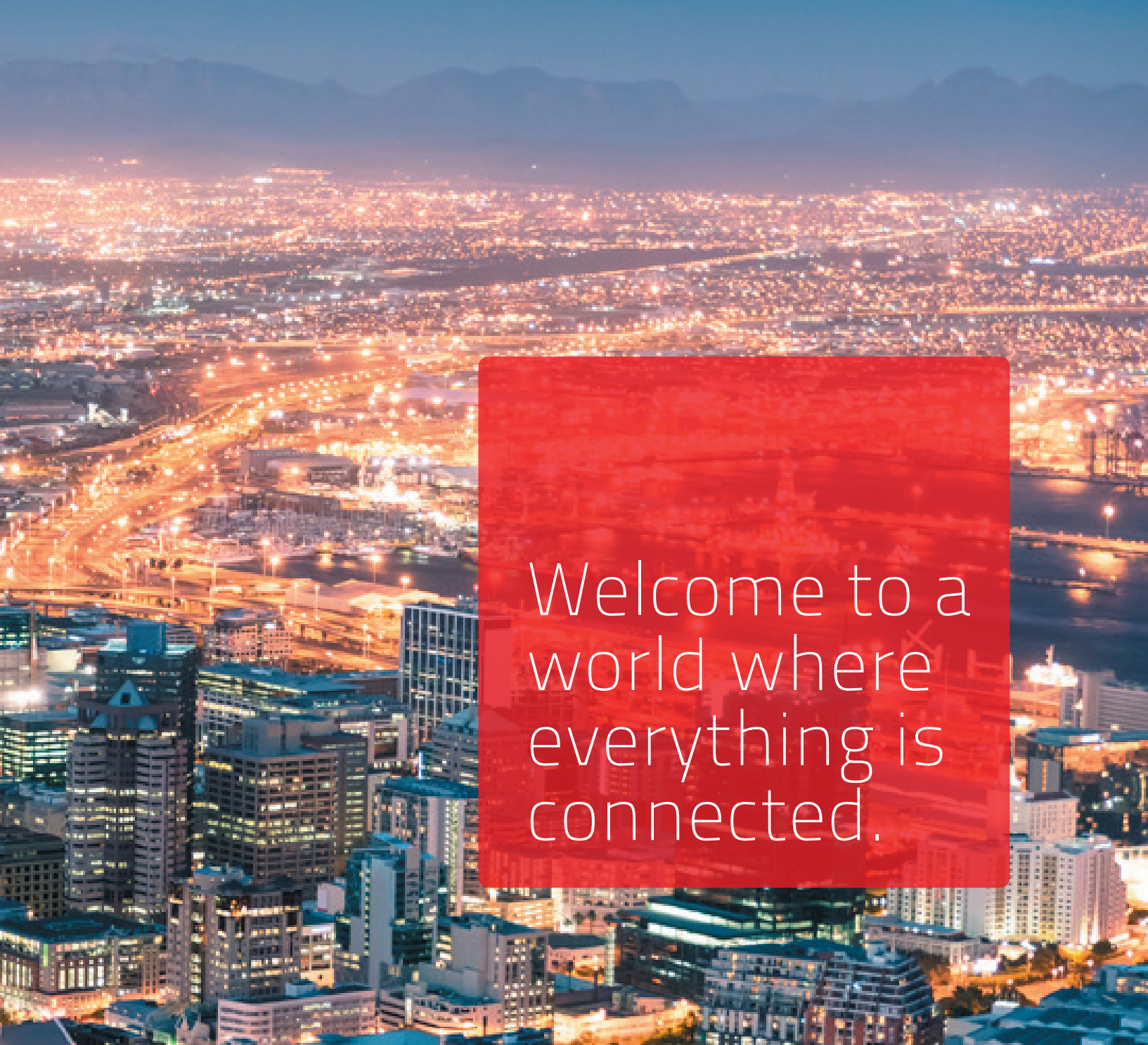




We connect your power



We are Lovink Enertech. We want to work with you to help create an efficient and safe society. Our part involves supplying reliable and innovative solutions for constructing, improving and maintaining your electricity systems.

An aerial night view of a city, likely San Francisco, with a red semi-transparent box in the center containing the text 'Welcome to a world where everything is connected.'

Welcome to a world where everything is connected.

We develop, produce and supply innovative and reliable cable accessories to grid operators, industrial companies, contractors and engineering firms. Besides that, our desire is to offer you additional support with specialized advice and guidance. So we are both contributing to a world which is continuously on the move.

Our accessories score particularly well when it comes to 'failure-free operation.' Thanks to an extremely low failure rate, our LoviSil® product group heads the international

ranking for best category performance. We are also able to present similar scores for our other product groups.

Due to their smart, intuitive design and universal technology for all voltage levels, our cable accessories are easy to install. This helps to save time and keep the risk of errors to a minimum. Together with a minimum service life of 40 years, high mechanical strength and exceptional resistance to environmental factors, this adds up to a very attractive Total Cost of Ownership (TCO).



The best
connections
are made
together.

The best results are obtained together. Your situation, preferences and objectives form a foundation for the solutions and support we offer. We supply high quality standard accessories wherever possible; we provide tailor-made solutions wherever necessary or preferred.



As a supplier of cable accessories, we can offer a comprehensive range of products from 1 to 36 kV. And there's more. We can help to optimize your ordering and administration processes and we offer storage, management and distribution solutions to give you trouble free logistics. Customer specific solutions, JIT and last minute deliveries: we will quickly respond to your needs.

Specially trained people at Lovink Enertech make sure your staff is able to effectively install our products. Familiarization courses are designed to enable spliceers, qualified at the relevant

voltages, to understand the practical and theoretical aspects of Lovink technology. Besides, our special support engineers can offer spliceers assistance in the field.

The Lovink Enertech brand is synonymous with intelligent, innovative and cost-effective solutions for the worldwide energy sector, the industrial sector and the sustainable energy market. We are continuously developing, supporting and implementing new ideas. These solutions continue to connect us to your dynamic assets.

We connect your power!



The electricity market is developing extremely quickly. The ecological impact of our infrastructure has been placed in the spotlight and terms like smart grids, energy transition and green nets have become part of everyday vernacular. Technological innovation is the answer to these developments, and this is an area where Lovink Enertech fulfils an important role.



Tomorrow's energy supply.

Changes in the grid, such as the introduction of sustainable energy production, are placing a greater burden on cable networks. As a result, cable splices must be able to resist these changing influences.

Cable splices are important links within cable networks. LoviSil®, the liquid silicone-based technology we have developed, is able to offer a reliable solution to these challenges.

Our development strategy focuses on reliability, sustainability and ease of assembly. We are using the latest technologies, and a team of smart engineers, to create products of the future.

This is Lovink Enertech's way of helping to realize reliable electricity grids, which help to ensure a stable economy and protect our environment.



Content

1. LoviSil®

Cable splices for
paper-insulated and
polymeric cables

15-25-35 kV

2. Accessories

Protolin® resin
Tools
Connectors
Cable lugs
Clamps and roll springs
Wrapping tapes

11-21 23-30



Transition splices Airport



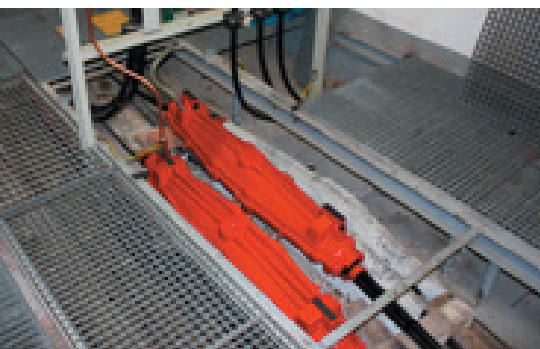
Straight through splices high water table



Branch splices



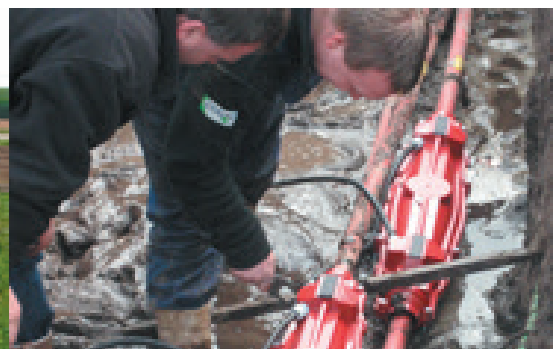
LoviSil[®] medium voltage splices 15-25-35 kV



Oil refill splices in switch gear station



Feed-in splices Solar park



Cross-bonding splices



LoviSil®

medium voltage
splices

15-25-35 kV

LoviSil® medium voltage cable splices have been developed featuring fluid silicones that can boast 30 years proven field experience with an extremely low failure rate. Thanks to the construction and characteristics of the silicone based insulation material, LoviSil® splices offer a reliable connection with polymeric and especially paper-insulated cables.

Applications

LoviSil® cable splices are available as trifurcate, straight through and branch splices. In addition Lovink Enertech has also applied LoviSil® technology for cross-bonding splices, oil refill splices and feed-in splices.

Electrical insulation

The principle dielectric is contained within an ABS inner shell, utilizing a combination of polymeric spacers (15-25 kV) or silicone sleeves (35 kV) and a high-grade silicone-based compound. This compound remains fluid, thus minimizing the risk of discharge from dried out papers.

Mechanical protection

Mechanical protection is provided by a strong ABS outer shell, filled with two-component polyurethane resin. This resin provides long-term moisture resistance. A copper wire mesh serves as the electrical screen.

Earth and screen protection

The polyurethane resin also provides a tough environmental protection for the main earth bond and screen components. With its searching characteristics, it encapsulates every item thus providing excellent corrosion resistance.

Sealing

Exceptional bonding of polyurethane resin to ABS provides a guaranteed seal to the outer shell. Should any moisture penetrate through to the inner splice, a soft, water resistant and perfectly insulating rubber is formed around the cores. This cured LoviSil® provides an additional layer of protection against the effects of moisture ingress.

Equivalent E_r value

The dielectric constant (E_r value) of liquid silicone is practically identical to the insulation of polymeric cables (XLPE/ EPR) and remains so even when cured. This provides a consistently homogeneous electric field.

Universal:
from one basic
concept all cables
can be connected

Reliability & Quality:
fluid silicone
technology

Cost savings:
extremely low
failure rate

Protection of cables

When applied to paper-insulated cables, the silicone compound performs the same insulating function as cable grease. This guarantees the long-term quality of connection.

Tests

LoviSil® cable joints have been tested in accordance with HD 628 / EN IEC 61442 and HD 629 (CENELEC). The tests were executed under water pressure of 2 bar thus meeting NEN 3628 and NEN 3609. LoviSil® joints are extremely suited to applications in areas of waterlogged soils and high water tables.

Installation

The installation accomplished in 7 steps:

1. Cable preparation
2. Fitting of field control and connectors
3. Fitting of inner splice
4. Filling inner splice LoviSil®
5. Fitting earth and screen
6. Assembly of outer splice
7. Filling outer splice with Protolin®

LoviSil® splices are distinctive for their ease of installation. Installation steps are intuitive, parts are user-friendly by design and pre-installed wherever possible. The bags of Protolin® resin and LoviSil® feature handles and filling spouts.

During the filling process, levels can be controlled effectively. The transparent inner splice and red outer splice are provided with level indicators. Protolin® resin is provided with a colour indicator, which allows splicers to see when the resin has been properly mixed.

Example installation instruction

1 Preparation of the cables

XLPE/EPR

Always abrade polymeric outer sheath!

Bend back the screen wires / flat strap but do not cut them!

Dimensions connectors:
 With blocked connectors: 1/2" connector + 1/4"
 Without blocked connectors: 1/2" connector + 1/4"

2 Fitting of field control and connectors

Before fitting the connector, place the spacer over one side of the connection

1. Position the stress cones with the push-on-applicator.
2. In the case of EPR cable, apply void filling tape over the interface between EPR and semi-conductive layer.
3. Slide the stress cones 1/2" over the end of the semi-conductive layer.
4. First clean the core insulation and then the stress cones with a clean Lovink wet cleaning tissue.

5. Place the spacer. Fit the connector according to the specifications of the supplier.

3 Fitting of inner splice

Clean the whole with a clean Lovink wet cleaning tissue.

1. Centralize the spacer and position the lower shell so that the spacer is situated in the middle of the lower shell. Mark the positions of the foam rings.
2. Position the foam ring at the marked position on the cable.
3. Fit the hinge of the upper shell to the lower shell.

1. Click the upper shell partly on the lower shell.
2. Turn all screws with a 1/4" allen key according to image above (4ft/lbf). Attention! The M105 joint has 8 screws.
3. Check if the shells are fully located and snapped shut.

4 Filling the inner splice with LoviSil®

1. Position the LoviSil® bag on the filling hole as indicated in the instruction on the bag.
2. Hold the spout firmly on the fill opening.
3. Fill the inner splice with LoviSil® to the level between MIN and MAX.
4. Tighten the plug with a 1/4" wrench.

5 Fitting the ground

XLPE

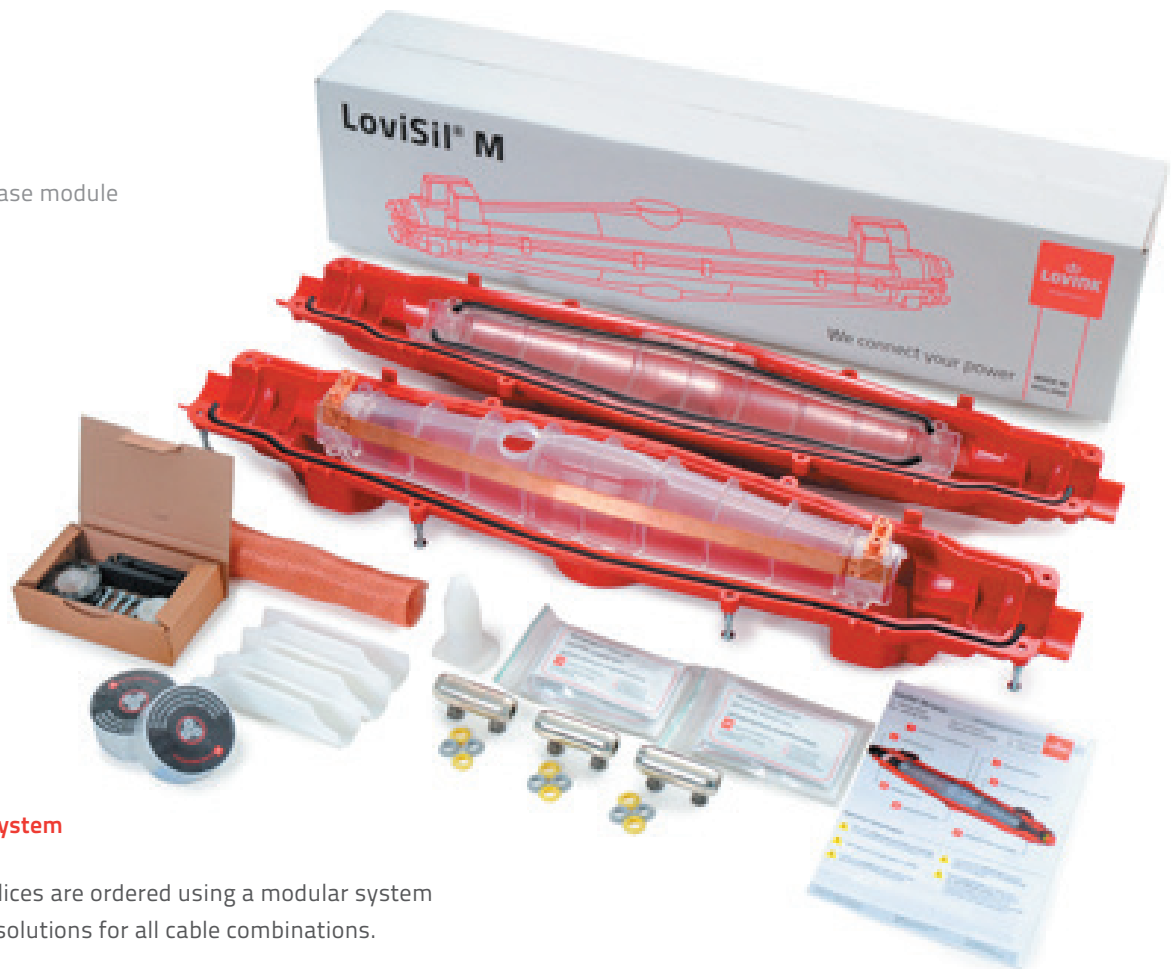
1. Fix the screen wires / flat strap to the ground strip on both sides by means of a 1/4" allen key.
2. Wrap the copper screen mesh around the inner splice.
3. Hook the upper screen mesh to the hooks on the upper side of the inner splice.

Installation:
easy, intuitive
and fast

Proven technology:
more than 30 years
field experience

The installation instructions are logical and clear. Simple images, some supported with text, guide the splicer step by step through installation to a satisfactory conclusion.

Example base module
15-25 kV



Modular system

LoviSil® splices are ordered using a modular system providing solutions for all cable combinations.

Base module : This module contains all the “hardware” for the splice. Selection of the base module is dependent on cable sizes.

Resin module : This module contains all filling compounds for the splice, including the LoviSil® liquid.

Cable module : This module contains items for application on the cables to be connected.

Example resin module



Bespoke cable modules for unique applications are available.

The modular system offers logistic benefits, because it is not necessary to keep separate splices in stock for each cable combination. From one basic concept, all cable types can be connected.

Product overview LoviSil® M trifurcate and straight through splices

The trifurcate and straight through splices of Lovink Enertech are universal and can be used on paper-insulated (PILC) and polymeric (XLPE or EPR) cables regardless of cable type: 1 and 3-core, large and small cross-sections and different armors. Bespoke cable modules are available to cater for uncommon cable types.

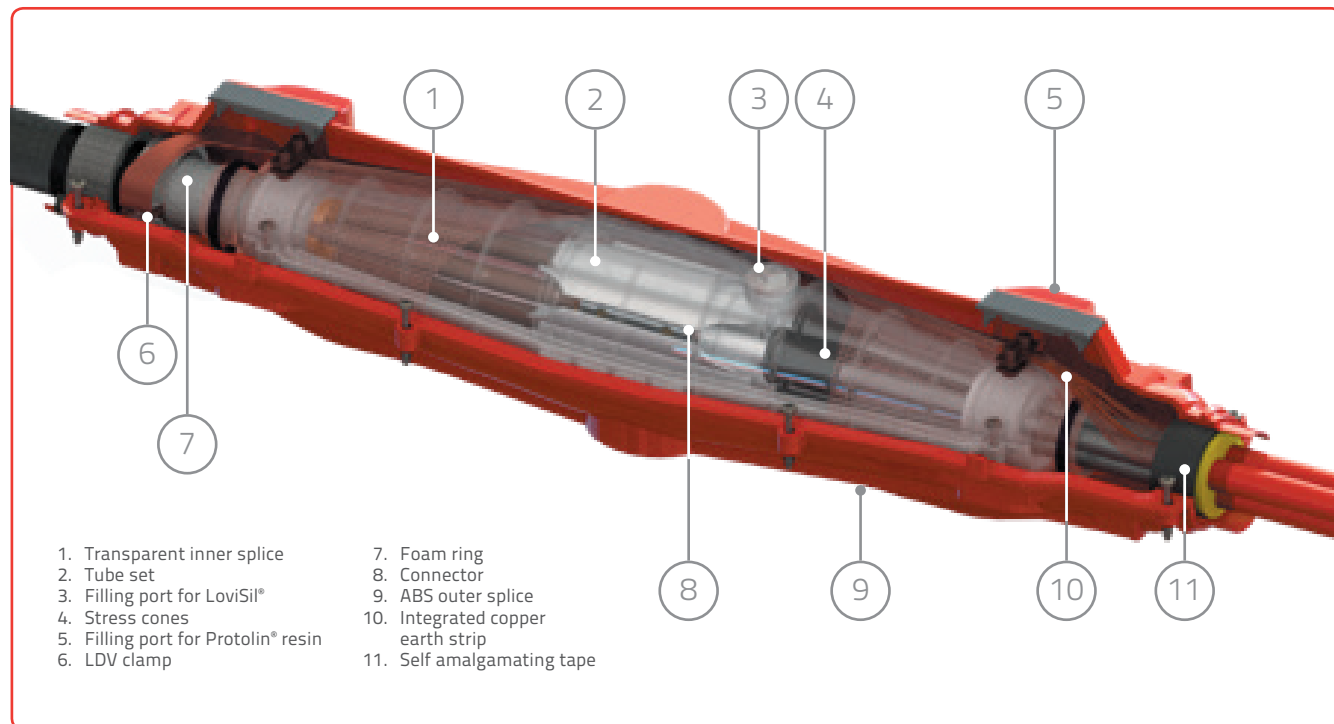
Voltage	Type	Cable	Conductor size	Diameter conductor crossed conductors	Max. cross section for crossed cores (inch)
15 kV	M75	Polymeric/paper (1-core)	3/0-4/0 AWG to 1250 kcmil	N/A	2.835
		Polymeric (3-core)	2-1 AWG to 300 kcmil	2-1 AWG to 4/0 AWG-250 kcmil	2.835
		Polymeric (3 x 1-core)	2-1 AWG to 300 kcmil	N/A	1.319
		Paper (3-core)	2-1 AWG to 300 kcmil	2-1 AWG to 4/0 AWG-250 kcmil	2.835
	M85	Polymeric/paper (1-core)	1500 kcmil to 2000 kcmil	N/A	3.228
		Polymeric (3-core)	3/0-4/0 AWG to 450-500 kcmil	3/0-4/0 AWG to 350-400 kcmil	3.228
		Polymeric (3 x 1-core)	3/0-4/0 AWG to 450-500 kcmil	N/A	1.496
		Paper (3-core)	3/0-4/0 AWG to 450-500 kcmil	3/0-4/0 AWG to 350-400 kcmil	3.228
	M105	Polymeric/paper (1-core)	1500 kcmil to 2000 kcmil	N/A	4.134
		Polymeric (3-core)	3/0-4/0 AWG to 750-800 kcmil	600 kcmil	4.134
		Polymeric (3 x 1-core)	3/0-4/0 AWG to 750-800 kcmil	N/A	1.929
		Paper (3-core)	3/0-4/0 AWG to 750-800 kcmil	600 kcmil	4.134
	MK125	Polymeric (3 x 1-core)	3/0-4/0 AWG to 1500 kcmil	N/A	2.283
		Paper (3-core)	3/0-4/0 AWG to 750-800 kcmil	N/A	4.724
	M75	Polymeric/paper (1-core)	3/0-4/0 AWG to 450-500 kcmil	N/A	2.835
		Polymeric/paper (1-core)	600 kcmil to 1250 kcmil	N/A	3.228
		Polymeric (3 x 1-core)	3/0-4/0 AWG to 600 kcmil	N/A	1.496
25 kV	M85	Polymeric (3-core)	3/0-4/0 AWG to 600 kcmil	3/0-4/0 AWG to 300 kcmil	3.228
		Paper (3-core)	3/0-4/0 AWG to 600 kcmil		
	M105	Polymeric/paper (1-core)	1500 kcmil to 2000 kcmil	N/A	4.134
		Polymeric (3 x 1-core)	3/0-4/0 AWG to 750-800 kcmil	N/A	1.929
		Paper	3/0-4/0 AWG to 750-800 kcmil	450-500 kcmil	4.134
	MK125	Polymeric (3 x 1-core)	3/0-4/0 AWG to 1500 kcmil	N/A	2.283
		Paper (3-core)	3/0-4/0 AWG to 750-800 kcmil	N/A	4.724
35 kV	M85	Polymeric/paper (1-core)	2/0 AWG to 750-800 kcmil	N/A	3.228
	M105	Polymeric/paper (1-core)	1000 kcmil to 2000 kcmil	N/A	4.134
	MK125	Polymeric/paper (1-core)	2/0 AWG to 750-800 kcmil	N/A	2.283
		Polymeric/paper (3-core)	2/0 AWG to 750-800 kcmil	N/A	4.724



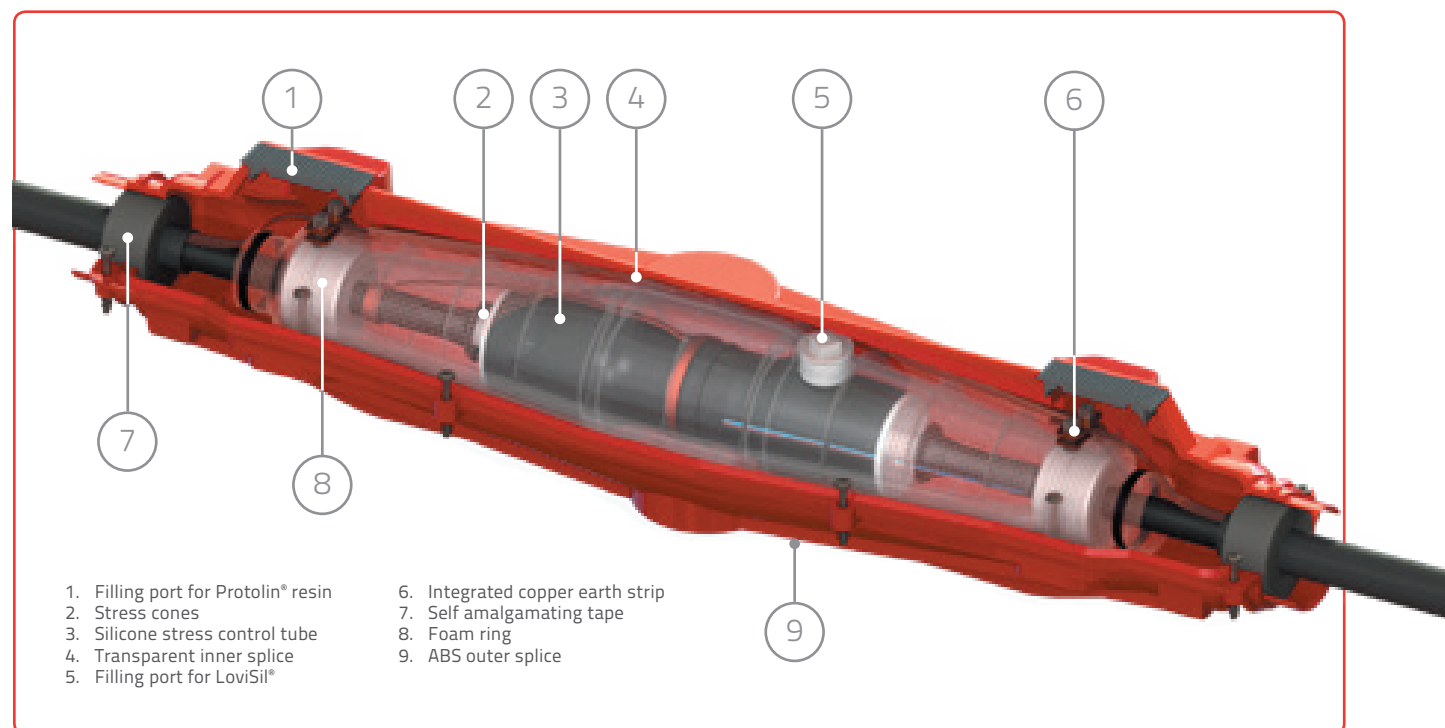
* Attention: Dependent on the outer sheath diameter and selected cable module. The above sizes concern cables that fit into the splice. Different cables on request.

Build up LoviSil® transition and straight through splices

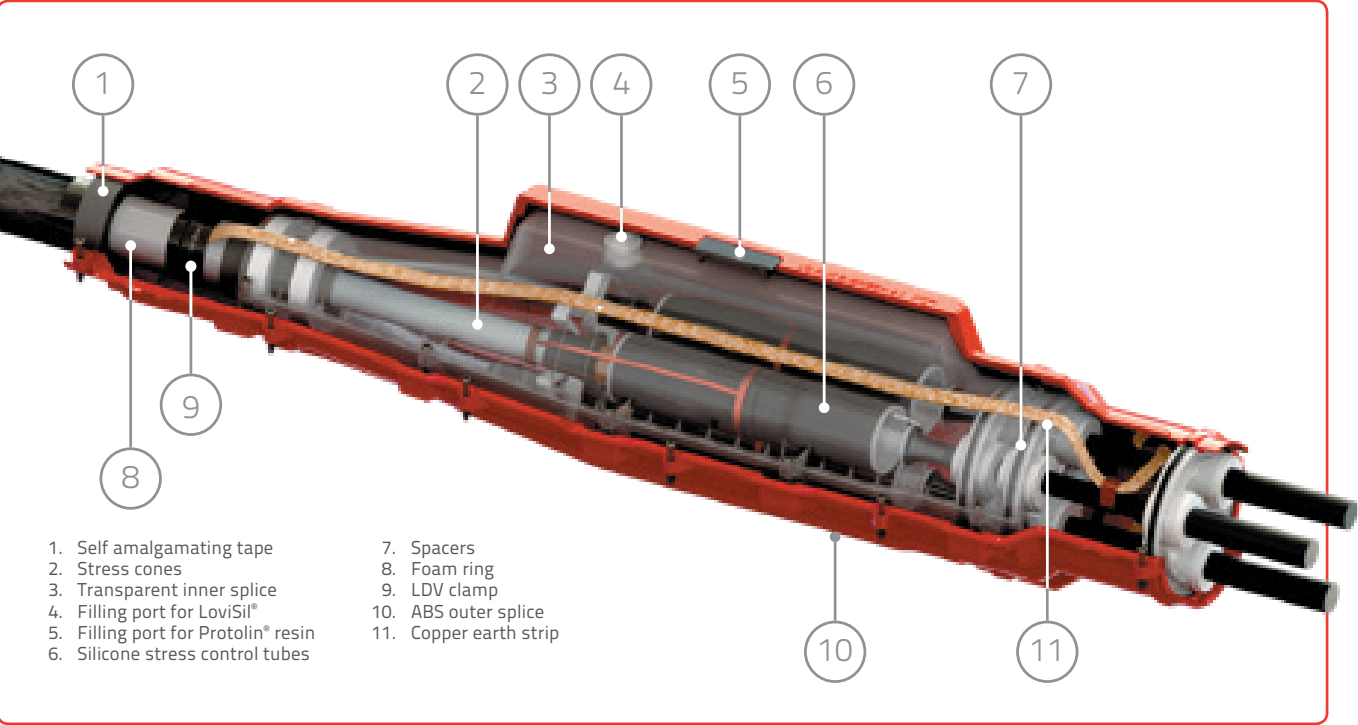
LoviSil® M75-M105 (15-25 kV)



LoviSil® M85-M105 (35 kV)



LoviSil® MK125 (35 kV)



Dimensions	Type	A (inch)	B (inch)
<div>M</div>	M75	38.386	7.874
	M85	41.535	8.898
	M105	52.953	11.417
<div>MK</div>	MK125	62.992	12.205

Optional versions

Stop-end splice > With the stop-end module, a standard splice becomes a pot-end for cables that will be energized



Application

An end splice can be applied at the end of a cable trace or when a cable trace is (partly) put out of operation.

Benefits

- Easy to accomplish.
A stop-end module converts a standard splice.

Extended splice > With an extension shell, the cable entry and connection space for the earth bond is extended



Application

An extended shell offers greater space to bond additional components such as lead sheaths on polymeric cables or DWA.

Benefits

- More bonding length and better water sealing
- Available on single or both ends
- Well suited to the petrochemical industry.

Oil refill splice > By means of a special manifold, a connection is made between the metallic sheath and an oil reservoir



Application

Where transitions from paper to polymeric cables are required on new construction, oil refill splices feed the paper cable to extend their life.

Benefits

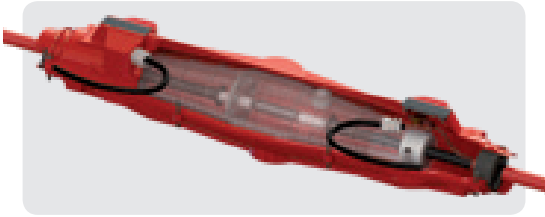
- Continuous supply of oil
- Prevents drying out
- Extending cable network life

Application	Type	Cable	Conductor size	Type	Construction
15 kV	M105	Trifurcate splice (3-core)	4 AWG to 300 kcmil	Connection 1 x lead	M75 inner splice
		Trifurcate splice (3-core)	3/0-4/0 AWG to 450-500 kcmil	Connection 1 x lead	M85 inner splice
		Paper (3-core)	3/0-4/0 AWG to 450-500 kcmil	1 x lead	Without inner splice
		Paper (3-core)	3/0-4/0 AWG to 450-500 kcmil	3 x lead	Without inner splice
25 kV	M105	Trifurcate splice (3-core)	4 AWG to 3/0-4/0 AWG	Connection 1 x lead	M75 inner splice
		Trifurcate splice (3-core)	3/0-4/0 AWG to 300 kcmil	Connection 1 x lead	M85 inner splice
		Paper (3-core)	3/0-4/0 AWG to 300 kcmil	1 x lead	Without inner splice
		Paper (3-core)	3/0-4/0 AWG to 300 kcmil	3 x lead	Without inner splice
35 kV	M105	Paper (3-core)	3/0-4/0 AWG to 300 kcmil	1 x lead	Without inner splice
		Paper (3-core)	3/0-4/0 AWG to 300 kcmil	3 x lead	Without inner splice

* Attention: Dependent on the outer sheath diameter and selected cable module.
The above sizes concern cables that fit into the splice. Different cables on request.

Optional versions

Cross-bonding splice > Used where cross-bonding is required to reduce losses



Application

Underground solution to prevent compensating currents.

Benefits

- Reduce cable losses
- Cost savings due to less cable losses

Voltage	Type	Cable	Conductor size	Diameter conductor crossed conductors	Max. cross section for crossed cores (inch)
15 kV	M75	Polymeric (1-core)	3/0-4/0 AWG to 750-800 kcmil	N/A	2.835
	M85	Polymeric (1-core)	1250 kcmil	N/A	3.228
	M105	Polymeric (1-core)	1500 kcmil to 2000 kcmil	N/A	4.134
25 kV	M85	Polymeric (1-core)	1250 kcmil	N/A	3.228
	M105	Polymeric (1-core)	1500 kcmil to 2000 kcmil	N/A	4.134
35 kV	M85	Polymeric (1-core)	350-400 kcmil to 750-800 kcmil	N/A	3.228
	M105	Polymeric (1-core)	1250 kcmil to 2000 kcmil	N/A	4.134

* Attention: Dependent on the outer sheath diameter and selected cable module.
The above sizes concern cables that fit into the splice. Different cables on request.

Sustainable solutions

An important objective in the electricity sector is to utilize the cable network in a sustainable manner. This can be achieved by extending the life of aging paper cables where possible. The oil refill splice offers a perfect solution.

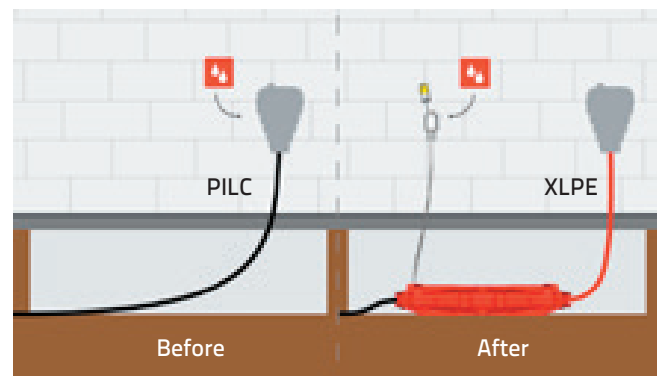
Extending cable network life span

New network sub stations are designed around switchgear for connection to polymeric cables. This requires the installation of trifurcate splices to allow connection to existing PILC networks. In turn, this often results in disconnection from oil supplies essential to existing paper-insulated cables, thus making them susceptible to drying out and inevitable failure. Lovink Enertech has devised a special trifurcate splice that continuously supplies oil to these cables thus preventing them from drying out.

Effective solution

A simple technique has been devised to remove a section of lead sheath without compromising the cores beneath.

A special manifold, which includes a non-return valve, is then positioned over the opening and secured in place. This enables connection to an oil supply suitable for the cable concerned. Utilizing a silicone tube along with traditional couplers and pipe-work, oil can be supplied from a conveniently located reservoir allowing easy maintenance.



LoviSil® oil refill splice

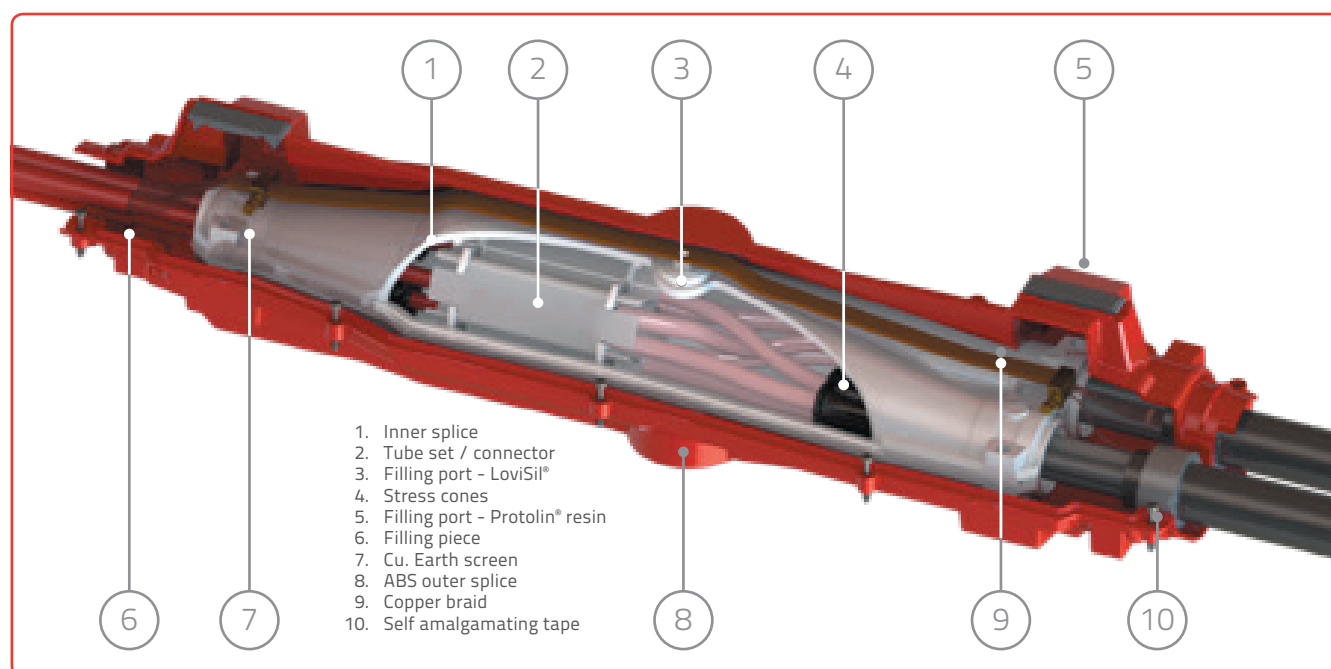
Product overview LoviSil® MB branch splices

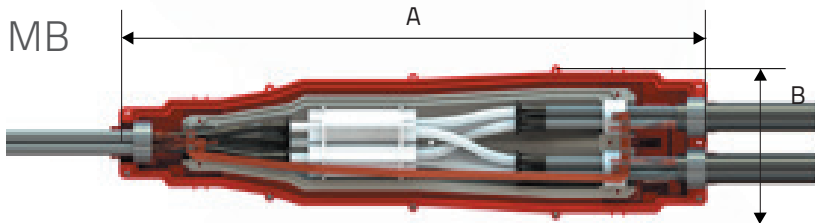
LoviSil® MB branch splices are suitable for making connections in medium voltage networks. The branch splice can be applied regardless of the main cable type. With LoviSil® splices, polymeric cables can be directly connected to paper or polymeric cables. No external trifurcate splices are needed, resulting in reduced material, excavation and reinstatement costs.

Voltage	Type	Cable	Conductor size	Diameter conductor crossed conductors	Max. cross section for crossed cores (inch)
15 kV	MB85	Polymeric / Paper (1-core)	3/0-4/0 AWG to 2000 kcmil	N/A	3.228
		Polymeric (1x3-core)	3/0-4/0 AWG to 600 kcmil	3/0-4/0 AWG to 350-400 kcmil	3.228
		Polymeric (3x1-core)	3/0-4/0 AWG to 600 kcmil	N/A	1.496
		Paper (1x3-core)	3/0-4/0 AWG to 600 kcmil	3/0-4/0 AWG to 350-400 kcmil	3.228
25 kV	MB95	Polymeric (1x3-core)	3/0-4/0 AWG to 600 kcmil	3/0-4/0 AWG to 450-500 kcmil	3.425
		Polymeric (3x1-core)	3/0-4/0 AWG to 600 kcmil	N/A	1.594
		Paper (1x3-core)	3/0-4/0 AWG to 600 kcmil	3/0-4/0 AWG to 450-500 kcmil	3.425
35 kV	MB95	Polymeric / Paper (1-core)	3/0-4/0 AWG to 2000 kcmil	N/A	3.425
		Polymeric (3x1-core)	3/0-4/0 AWG to 600 kcmil	N/A	1.594
		Paper (1x3-core)	3/0-4/0 AWG to 600 kcmil	450-500 kcmil	3.425
35 kV	MB95	Polymeric / Paper (1-core)	3/0-4/0 AWG to 1500 kcmil	N/A	3.425

* Attention: Dependent on the outer sheath diameter and selected cable module.
The above sizes concern cables that fit into the splice. Different cables on request.

Build up LoviSil® MB branch splices LoviSil® MB85-MB95



Dimensions		A (inch)	B (inch)
MB		MB85	50.394
		MB95	59.055
			12.008

Optional versions

Loop splice > With a stop-end module, a standard branch splice becomes a loop splice



Application

Where a substation or switchgear is to be abandoned, the ring feeder cables laid parallel in the ground can be connected without excavation to accommodate a large loop and two straight splices. Both cables are installed on the branch side.

Benefits

- Less excavation work
- Less cable needed
- Shorter assembly time

Feed-in splice > With a special connector a standard branch splice becomes a feed-in splice



Application

A feed-in splice can be used to connect power from new sustainable sources to existing cable runs or new radial circuits.

Benefits

- Less excavation work
- Less cable needed
- Substation redundant
- Shorter assembly time

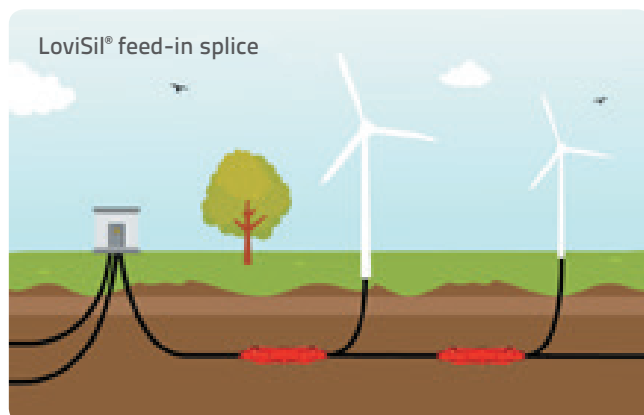
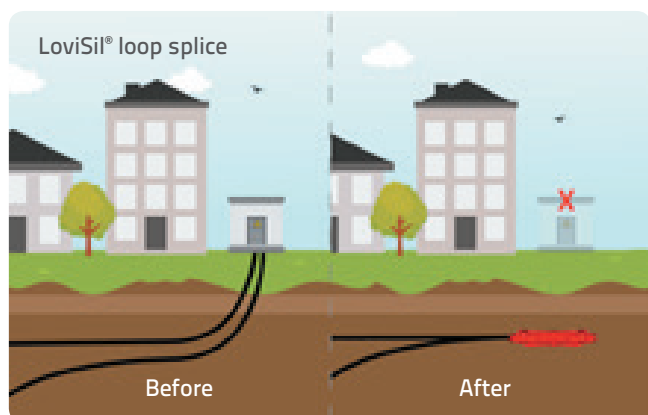
Sustainable applications

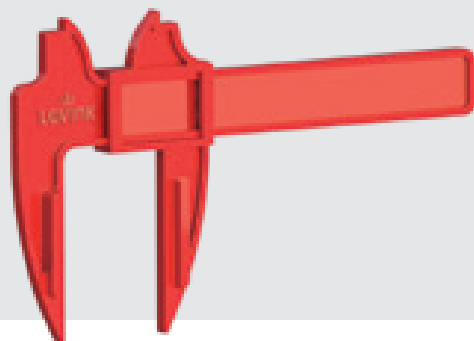
Application of the LoviSil® branch splices often lead to substantial cost savings, less cable and fewer cable splices are needed. When a substation is decommissioned and cables must stay in operation, the LoviSil® loop splice offers a practical solution. The normal approach for this procedure is to join the cables together by installing two cable splices plus a loop of new cable. However the LoviSil® loop splice allows the two cables to be mounted directly without an extra cable. Branch splices can accommodate a wide range of cable types, including

small single core polymeric cables from wind turbines.

LoviSil® feed- in splices are fitted with a specially developed connector which enables splicing of small cross section source cables to large cross section radial or ring cables.

This application reduces the need for additional switchgear and sub stations. Together with saving extra cable length and extra excavation work makes the **LoviSil® branch splice** an economic investment.







Accessories



Protolin® polyurethane resin

Protolin® 4000 > Cast resin which can be used as a mechanical insulation in medium voltage accessories

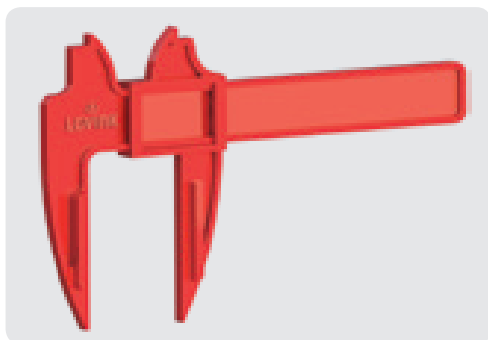


Product information

- Two-part resin based on polyurethane.
- For applications with polymeric and paper-insulated cables.
- Supplied in a foil pouch, the twin compartment sachet allows easy mixing and pouring.
- The bag is provided with spouts which makes the filling much easier.
- The fully mixed resin flows easily, searching out the smallest spaces. Whilst curing, the resin is unaffected by water or moisture in the cable.
- Available in 57.484, 86.226 and 106.514 oz .

Tools

Slide caliper > Installation tool to establish the correct diameters when applying build-up tapes



Product information

- Slide mechanism, single-handed operation.
- Universally applicable, diameter from 1.575 to 6.102 inch.

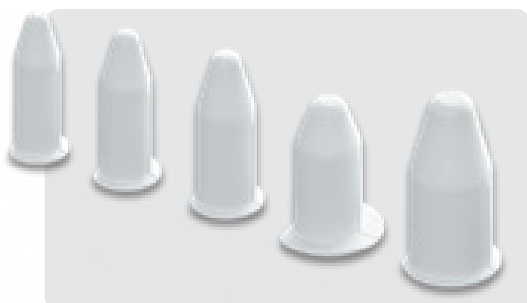
Push on applicator 15/25 kV > Installation tool to position the stress cone on the cable



Product information

- Available for 1.378 and 1.929 inch.

Push on applicator 35 kV > Installation tool to position the stress cone on the cable



Product information

- Available as a set with 3 x applicators 1.181, 1.457, 1.693, 1.929 inch and 2 x applicator 2.362 inch.

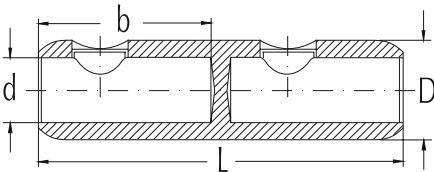
Connectors and cable lugs

Mechanical connector > Suitable for conductors of different cross sections and conductor materials



Product information

- Reliable and cost saving.
- Suitable for connections up to 35 kV.

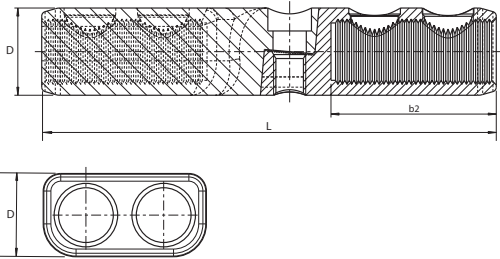


Description	Number of bolts	Dimensions in inch			
		L	d	D	b
LEM 16-95	2	2.756	0.472	0.945	1.260
LEM 50-150	2	3.346	0.591	1.181	1.378
LEM 25-150/16-95	2	3.346	0.591/0.472	1.181	1.378/1.260
LEM 70-240	4	4.724	0.787	1.299	2.205
LEM 95-240	4	4.724	0.787	1.299	2.205
LEM 95-240/16-95	3	4.724	0.787/0.472	1.299	2.205/1.260
LEM 120-300	4	5.591	0.984	1.496	2.638
LEM 120-300/16-95	3	5.591	0.984/0.472	1.496	2.638/5.197
LEM 120-300/95-240	4	5.591	0.984/0.787	1.496	2.638/6.142
LEM 120-300/400-630	5	7.874	1.339/0.984	2.047	3.701/2.638
LEM 185-400	6	6.693	1.024	1.654	3.228
LEM 185-400/95-240	5	6.693	1.024/0.787	1.654	3.228/2.205
LEM 300-500	6	7.874	1.339	2.047	3.701
LEM 400-630	6	7.874	1.339	2.047	3.701
LEM 630-1000	8	8.661	1.614	2.559	4.134
LEM 800-1200	8	8.661	1.772	2.835	4.134
LEM 800-1200/400-630	7	8.661	1.772/1.339	2.835	4.134/3.701

* The above sizes concern cables that fit into the splice. Different cables on request.

Mechanical branch connector > Connects conductors in branch splices

Splittable version



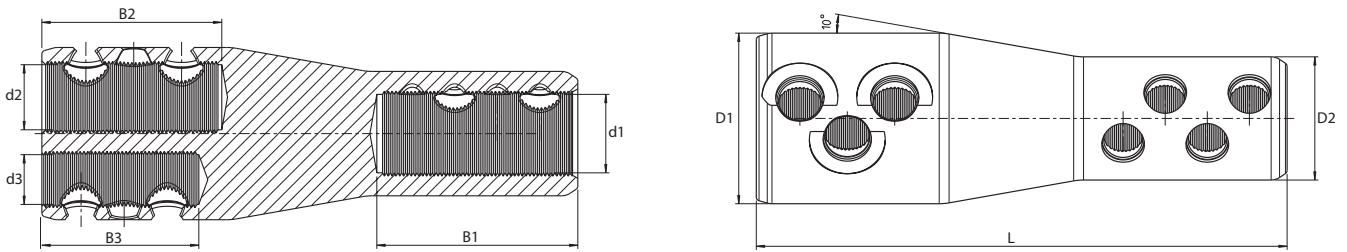
Description	Number of bolts	Dimensions in inch		
		D	L	b2
LEB 70-240	6	1.378	5.512	1.339
LEB 120-300	7	1.496	7.795	1.378

* The above sizes concern cables that fit into the splice. Different cables on request.

Description	Number of bolts	Dimensions in inch								
		d1	d2	d3	D1	D2	L	B1	B2	B3
LEB 630-1000 / 630-1000+95-240	8	1.614	1.614	0.787	3.740	2.559	11.024	4.134	4.134	2.205
LEB 3x300-630	7	1.339	1.339	1.339	3.701	3.701	11.024	4.134	3.701	3.701
LEB 1x630 / 2x120-300	7	1.339	0.984	0.984	3.150	2.047	11.024	3.701	2.638	2.638
LEB 1x1000 / 1x630 + 1x400	7	1.614	1.339	1.024	3.543	2.559	11.024	4.134	3.701	3.228

* The above sizes concern cables that fit into the splice. Different cables on request.

For class-5 conductors (highly stranded) alternative shear bolts and ferrules are available on request.



Mechanical cable lug > Connects conductors of different cross sections and conductor materials



Product information

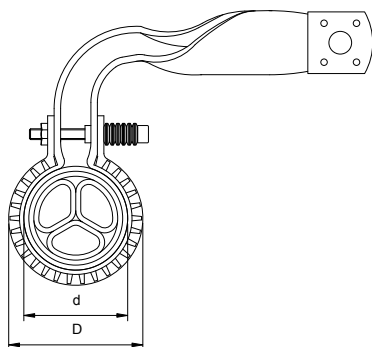
- Reliable and cost saving.
- Suitable for connections up to 35 kV.
- With 1 or 2 removable shear-off head bolts.

Description	Number of bolts	Dimensions in inch			
		a	d	D	L
LEC 16-95	1	1.260	0.472	0.945	2.362
LEC 50-150	1	1.378	0.591	1.181	2.559
LEC 95-240	2	2.205	0.787	3.74	3.74
LEC 120-300	2	2.638	0.984	3.937	3.937
LEC 185-400	3	3.110	1.024	4.528	4.528
LEC 400-630	3	3.701	1.339	5.118	5.118

* The above sizes concern cables that fit into the splice. Different cables on request.

Clamps and roll springs

LDV clamp > Solderless earth connection clamp for making an electrical connection of the lead sheath with the copper earth braid



Product information

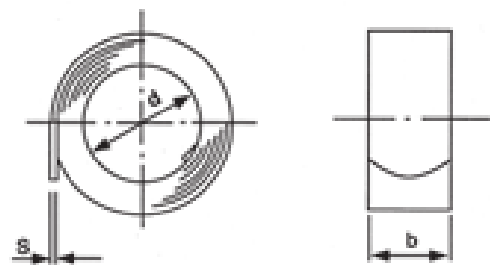
- Suitable for use in cable splices and terminations on paper insulated cables up to 35 kV.
- Can be applied in open air, cast resin or bitumen.
- Successfully tested on PILC cable at 14.6 kA/1sec, (250 MVA).

Description	Diameter over lead sheath (inch)		Clamp diameter (inch)
	d _{min}	d _{max}	D
LDV 35	1.024	1.299	1.772
LDV 50-70	1.299	1.535	2.008
LDV 95	1.535	1.772	2.244
LDV 150	1.772	2.008	2.480
LDV 240	2.008	2.323	2.756
LDV 300	2.323	2.559	3.031

* The above sizes concern cables that fit into the splice. Different cables on request.

Roll springs

Roll spring > For making an electrical connection to lead sheath or Cu tape screen with the copper earth braid



Product information

- Made of non-corroding special steel.

Description	Application range (inch)		Dimensions (inch)			Coils
	Min.	Max.	d	b	s	n
RF 1	0.512	0.866	0.433	0.630	0.004	6
RF 2	0.669	1.142	0.512	0.630	0.006	6
RF 3	0.866	1.457	0.669	0.630	0.008	6
RF 4/5	1.181	2.756	0.945	0.748	0.012	6
RF 6	2.205	3.701	1.654	0.787	0.020	6

* The above sizes concern cables that fit into the splice. Different cables on request.

Cleaning materials

Dispenser with cable cleaning cloths > Saturated cleaning cloths in plastic container



Product information

- Mixture of solvents, consisting of iso-paraffin hydrocarbons.
- It does not contain benzene, hexane and chlorinated hydrocarbons.
- The aromatic content is very low, maximum 0.05 (volume)percent.
- Dry cloths also available.

Cable cleaning cloths > Saturated cleaning cloths single packed



Product information

- Mixture of solvents, consisting of iso-paraffin hydrocarbons.
- It does not contain benzene, hexane and chlorinated hydrocarbons.
- The aromatic content is very low, maximum 0.05 (volume)percent.
- Also available as set: 4 saturated and 2 dry cleaning cloths.

Wrapping tapes

Self-amalgamating build-up tape > To enlarge cable diameters to meet the size of cable splices



Product information

- Cold application.
- Complete seal, even on the overlap.
- Long aging.
- Good electrical resistance.
- Resistant to acids, alkalis, salt solutions and all corrosive substances in the ground.
- Dimensions: 13.123 ft x 1.575 in x 0.039 in.

Self-amalgamating insulation tape 128 > Provide protection against accidental contact with uninsulated parts



Product information

- Resistivity: 33.301 Ω ft.
- Dielectric constant: 2.3.
- DIN 53 482 and DIN 53 483.
- Dimensions: 16.404 ft x 0.787 in x 0.039 in.

Self-amalgamating conductive tape K > To provide stress control and shielding in splices and terminations



Product information

- Resistivity 3.379 Ω ft.
- Tear strength: 435 lbf/in².
- Ultimate elongation: 200%.
- DIN 53 482 and DIN 53 455.
- Dimensions: 7.546 ft x 0.748 in x 0.030 in / 15.092 ft x 0.748 in x 0.030 in.

Self-amalgamating insulation tape SVIM > To provide insulation in cable terminations and straight splices



Product information

- Resistivity 33.301 Ω ft.
- Tear strength: 435 lbf/in².
- Ultimate elongation: 800%.
- Dielectric constant: 2.8.
- Service temperature: -40 °F to 212 °F.
- DIN 53 482, DIN 53 455, DIN 53 481 and DIN 53 483.
- Dimensions: 14.764 ft x 0.748 in x 0.030 in / 32.808 x 0.748 in x 0.030 in.

Wrapping tapes

Foam tape > To adjust the cable diameter for the use of foam rings in cable splices



Product information

- Single sided sticking tape
- Dimensions: 13.123 ft x 0.984 in x 0.079 in
- Dimensions : 13.123 ft x 1.969 in x 0.079 in

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