

TRANSNET

HV JUICE



September | October 2011

MXSU TRANSITION JOINT KITS GET A REVAMP



New generation LV Spreader Rod

TE's MXSU Transition Joint kits get a revamp! – NZ Roll out 2011

We are rolling out an improved range of MXSU Transition Joints in the coming months. As the new stock arrives and the existing range runs out we'll be supplying the new range. We have a team of technical support staff available to show your team what the differences are and how they will affect the installation process. Advancements in heatshrink extrusion technology have improved ease of application and reduced installation time.



Feature	Benefit
<ul style="list-style-type: none"> New transition joint designed to suit STA, SWA and non armoured paper insulated cables. 	<ul style="list-style-type: none"> No need to carry a number of different kits for the different types of armours.
<ul style="list-style-type: none"> New conductor size range introduced to MXSU product family. 	<ul style="list-style-type: none"> Ability to cater for a wider variety of conductor size ranges specifically suited to NZ cable types.
<ul style="list-style-type: none"> Joints incorporate a new range taking, adjustable 'grid' design, stainless steel armour support ring. Accepts a wider range of cable diameters. 	<ul style="list-style-type: none"> Can be installed/retrofitted after installation of joint due to split design. Less Joint Components. Faster installation time.
<ul style="list-style-type: none"> Joints include 3 x pre-solder blocked earth braids. for use on paper lead cables, metal sheath. 	<ul style="list-style-type: none"> Eliminates the need to construct water blocking on site. Less installer sensitive. Faster installation time.
<ul style="list-style-type: none"> Kits include a wedge insertion tool for easy placement of yellow void filling wedges. 	<ul style="list-style-type: none"> Reduces the possibility of incorrect placement of wedge. Prevents possible damage to cable cores during installation.
<ul style="list-style-type: none"> Fully type tested to international standards. Type tests available on request. 	<ul style="list-style-type: none"> Reassurance of quality components and complete solution EVERY TIME. Complete solution in one box, no need to source other components. (Mech connectors included in kit) Meets or exceeds all current international standards.
<ul style="list-style-type: none"> Introduction of NEW Rayfit triple extruded screened/insulating sleeves. 	<ul style="list-style-type: none"> Provides higher recovery force (hoop stress). Easier to install. Faster installation time.
<ul style="list-style-type: none"> Shorter cutback dimensions. 	<ul style="list-style-type: none"> Less civil works. Faster installation time.

Changes to MXSU Transition Joints

PRODUCT CODE	OLD KITS				NEW KITS			
	NO. CORES	XLPE	NO. CORES	PILC	NO. CORES	XLPE	NO. CORES	PILC
MXSU-12A-1X-3B	1	16-95	3	16-70	1	16-95	3	16-70
MXSU-12A-3X-3B	3	16-95	3	16-70	3	16-95	3	16-70
MXSU-12B-1X-3B	1	95-240	3	95-185	1	50-150	3	70-120
MXSU-12B-3X-3B	3	95-240	3	95-185	3	50-150	3	70-120
MXSU-12C-1X-3B	1	120-300	3	120-300	1	95-240	3	95-185
MXSU-12C-3X-3B	3	120-300	3	120-300	3	95-240	3	95-185
MXSU-12D-1X-3B	1	185-400	3	240-300	1	150-300	3	150-240
MXSU-12D-3X-3B	3	185-400	3	240-400	3	150-300	3	150-300
MXSU-12E-1X-3B	1	240-400	3	240-300	1	240-400	3	240-300
MXSU-12E-3X-3B	3	240-400	3	240-300	3	240-400	3	240-300

Raychem

TE ENERGY
connectivity

Ph 0800 442 182
+64 9 274 3340
sales@transnet.co.nz



www.transnet.co.nz

CFTS Heatshrinkable Cable Glands

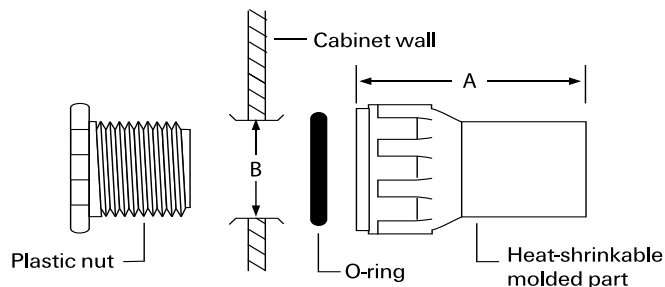
The CFTS range of moulded glands are specifically designed for moisture-sealing applications where a cable enters an enclosure. Glands are made of a rigid plastic and when inserted through a cabinet or enclosure, they protect internal cable from being damaged.



CFTS glands are suitable for environments that have existing periodic pressure or temperature difference.

Glands are pre-coated with a thermoplastic adhesive, that seals around cables and the O-ring ensures a water and air tight seal.

Simple to use, this range ensures a tight moisture proof seal around the sheath of the cable while keeping it secure. Five units cover conductor sizes from 5mm OD up to 61mm OD.



CAT NO.	A (mm)	B (mm)	Cable Diameter mm
CFTS-1	70	25	5 - 10
CFTS-2	70	25	6 - 17
CFTS-3	95	25	14 - 25
CFTS-4	114	51	20 - 37
CFTS-5	178	89	37 - 61

Raychem



Fibre Optic Suspension Clamp

Made from Aluminium with a range taking rubber insert, this fibre optic suspension clamp has been designed to assist pulling of cables while reducing the risk of snagging them in the hinged opening.

With various mounting capabilities this clamp is truly versatile. It can be bolted or band strapped, vertically or horizontally to a pole or crossarm reducing the number of different clamps required to do the job.



PRODUCT# FOSC7-29MM

*Rubber insert sold separately

FEATURES

- Angle of hinge is always 45° from horizontal to ensure draw wire isn't snagged.
- Accepts the complete range of rubbers available which cater for cables from 7mm OD to 28.7mm OD.
- Lowers the total cost of installation by reducing range of clamps required.
- Smaller, more compact design.
- Facilitates faster installation.
- Versatile mounting styles to fit different structures – horizontal and vertical mounting on pole or crossarm.



Raychem 33kV Termination Kits get an upgrade

We've listened to our customers and we've released the new range of extended creepage Terminations for 33kV.

The HVT range includes both indoor (HVT-I) and outdoor (HVT-O) terminations for both single and three core cables.

- This range of terminations offers the flexibility and customisation that ONLY Heatshrink can. Customised creepage distances are available for extreme environments & to retrofit existing terminations.
- New Zealand as a whole has a harsh environment – some parts worse than others but we have a very large coastal area, we have to contend with sulphur and agricultural sprays so the environmental pollution your terminations are exposed to is extreme, extended creepage terminations offer you the freedom to cater for these factors.
- The HVT range is less installer sensitive reducing the risk of installation error.
- All HVT termination kits include TE mechanical connectors, tested to IEC 61238-1 CLASS A standards giving you added piece of mind that using a complete solution is offered.

Raychem



33kV Crucifix Bracket

A new generation in 33kV Crucifix Brackets is here...

After much discussion within the industry it became apparent there was a need for a new 33kV Crucifix design. Working with a number of utility contractors we determined what the design issues were with the current brackets available and got to work sorting them out.

After a number of prototypes were tested and minor adjustments made, we settled on the final design. In order to allow the natural flow of the cable to line up with the standoff insulators (or surge arrestors), the position of the cable clamp fixing points among other things, were adjusted.

Other features of the new 33kV crucifix bracket include;

- The bolt holes for mounting to the pole have been slotted to allow for a multitude of pole designs.
- Standoff angle has been adjusted to help accommodate the natural flow of the cable.
- Made from Galvanised steel.



PRODUCT# 33KVBRAK

Ph 0800 442 182
+64 9 274 3340
sales@transnet.co.nz



www.transnet.co.nz

TE Polymer Strain Insulators



Polymer strain insulator during accelerated weathering

FEATURES

- Direct moulded triple seal design ensures void free interface between silicone and core, eliminating all possibilities of moisture ingress.
- Fiberglass Rod to get better traction and tension load on RML and SML.
- Forged Steel End Fittings to ensure a higher consistency of all critical dimensions which prevents possibilities of failure and cracking during assembly.
- The 100% recyclable resin, is a third generation polymer material and passes the most severe tests of the industry.



Polymer strain under the steep-front impulse voltage test



Among others, this range meets the following standards:

- **IEC 61109/2008**
- **IEC 60587 : 1984** – Resistance to tracking and erosion of insulating materials.
- **IEC 60695-11-10:99** – Fire hazard testing.
- **ASTM G 90** – Accelerated outdoor weathering of non-metallic materials.



CAT NO. MEASUREMENT	LENGTH mm	NO.OF SHEADS	SHED DIAMETER mm	CREEPAGE DISTANCE mm	FLASHOVER (WET) kV	FLASHOVER (DRY) kV	DRY ARCING mm	TENSION kV	BOX QTY
DS-15	340	4	98	420	65	90	210	70	16
DS-28	475	8	98	857	135	150	333	70	12
DS-35	555	10	98	1060	155	170	410	70	10

PREMIER SPONSORS



LINE MECHANIC & CABLE JOINTER COMPETITION



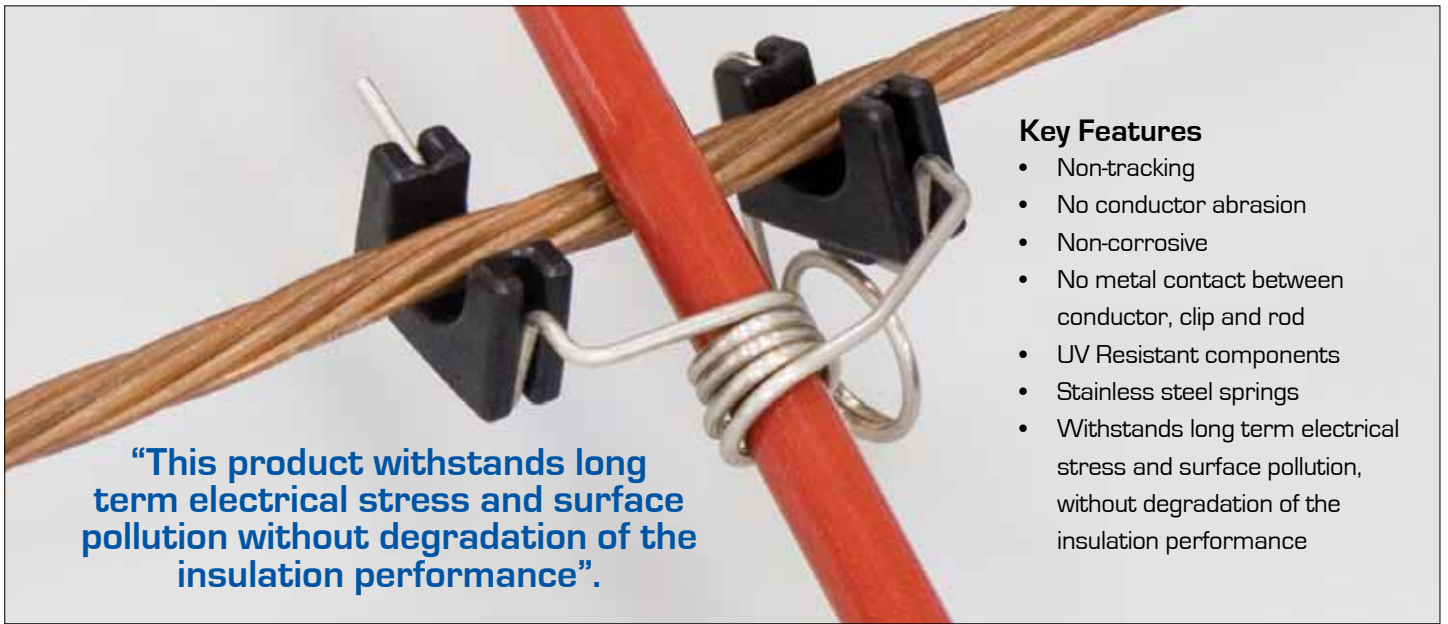
1-3 November 2011
Mystery Creek Events Centre, Hamilton

Ph 0800 442 182
+64 9 274 3340
sales@transnet.co.nz



www.transnet.co.nz

LV Spreader Rod & Clips



“This product withstands long term electrical stress and surface pollution without degradation of the insulation performance”.

Key Features

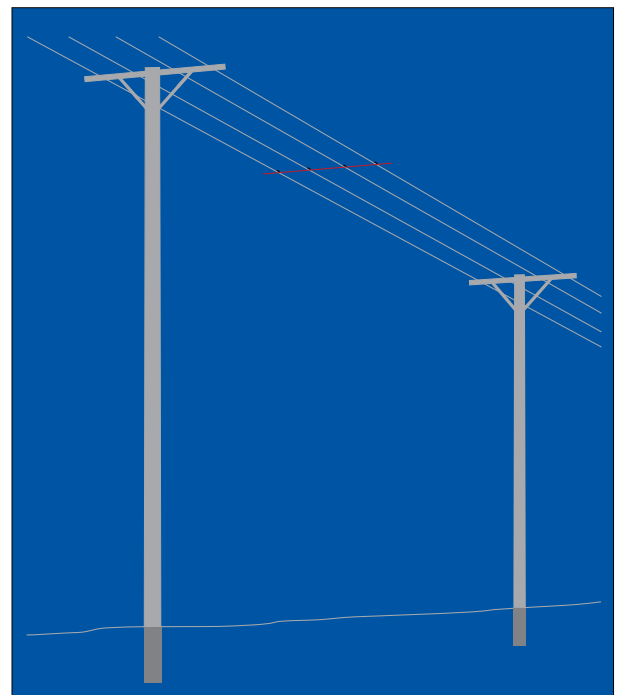
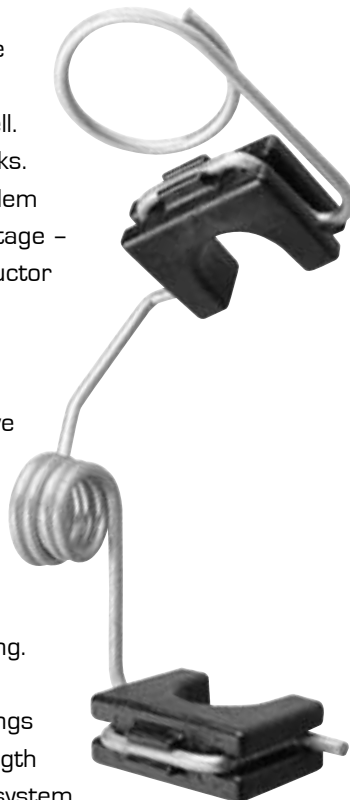
- Non-tracking
- No conductor abrasion
- Non-corrosive
- No metal contact between conductor, clip and rod
- UV Resistant components
- Stainless steel springs
- Withstands long term electrical stress and surface pollution, without degradation of the insulation performance

LV Spreader Rod and Clips

Historically a piece of PVC pipe and some insulation tape has held LV lines from clashing, it's done the job but not very well. The tape perishes and the PVC pipe tracks. TE has been working on solving this problem and they've come up with the TE Low Voltage – Non Tracking – Spreader Rod and Conductor Protector Clip.

This unit is sturdy, UV stable and won't track. The stainless steel spring clips have an insert to protect the conductor, the insert is made of abrasion and UV resistant Nylon. The rod itself is made from solid high impact strength UV resistant Raysulate material. It is non-corrosive, non-conductive and non-tracking.

The clips can be fitted at whatever spacings you desire and the rods can be cut to length (supplied 2.1m lengths). If required, this system can be installed from the ground using hotsticks. These non-tracking rods are great for high pollution, coastal, and high wind areas.



The conductor range for the Spreader rod clips is 5mm – 16.3mm O.D.

CAT NO.	DESCRIPTION
CM3889-000	SPREADER ROD 2.1M LONG 12MM OD.
EB0043-000	SPREADER ROD CLIP 5-16MM OD.



Ph 0800 442 182
+64 9 274 3340
sales@transnet.co.nz



www.transnet.co.nz

A&S Cable Spiker – A Life Saver

It's almost impossible to be 100% confident that the cable you are about to cut into is de-energised. The Accles & Shelvoke cable spiker fires a 0.44 cartridge powered spike through the cable you are about to work on. If the cable is live the spike causes a short between phase and earth. This is accomplished from a safe distance using a pull cord firing device. If the cable is still energised after all of your isolation precautions, the spike will cause a short circuit triggering the circuit protection device.

You may hear a loud bang, but you still get to go home at night and put the kids to bed. Sounds like a good idea to us....

- Spare parts and servicing are available.
- Cartridges come in varying strengths;
 - Red** – Heavy, for use with older types or steel wire armoured cables.
 - Green** – Medium, for lead covered and all armoured cables up to 3'3/8" OD.
 - Silver** – Light, for Aluminium sheathed cables up to 300mm² and small diameter plastic covered cables.
 - Yellow** – Extra Light, for small polymeric cables with no outer metallised sheath.
- Remotely controlled at the moment of firing by means of a lanyard release.

- Due to the speed of penetration of the spiking punch, spiking a live cable often causes little or no damage to the tool.
- The wide punch shears the cable partially or totally, depending on the cable size reducing any additional cable cutting effort.
- Suitable for use with all types and voltages of power cable including single and multiple conductor designs.



Tool maintenance and repair service available.

accles & shelvoke

CAT NO.	DESCRIPTION
FA2233	CABLE SPIKIER MAX CABLE OD. 114MM

Full Tension Copper Crimp System

The Utilux Full Tension Copper Sleeve is designed for joining overhead copper conductors.

This range is specifically manufactured for NZ conductors, to ensure superior tensile strength when coupled with the correct Utilux MS crimp tools.

- Connector material is Copper with an internal layer of sprayed metal to assist with the connection.
- Designed for use in tension situations, they offer superior tensile strength.
- Considerable reduction in mass of finished joint due to the profile of the connector.
- High quality Copper connection eliminates the chance of corrosion.

In order to ensure the correct crimp and a reliable connection are achieved, it is essential the correct tool is used.

There are three tools that will

cover the complete range of Utilux MS sleeves, these tools are all available ex stock.



MS Crimp Tools

CAT NO.	CRIMP GROVE SIZE mm
TY635794/1	6.35 & 7.94
TR794952	7.94 & 9.52
TR9521270	9.52 & 12.70

Contact customer service for connector part numbers & pricing.

UTILUX

TE ENERGY
connectivity

Ph 0800 442 182
+64 9 274 3340
sales@transnet.co.nz

TransNet Your Partners in Power

www.transnet.co.nz

Russell Harper joins TransNet

We'd like to welcome Russell Harper to the TransNet team, Russell joined us on July 11th and brings with him a wealth of experience in the Electricity Industry.

Russell was recently a Vector Auditor, assessing the Vector service providers and their field staff, before that he offered specialised jointing courses and upskilling programmes for cable jointers at Utilitech.

Prior to immigrating to NZ in 2006 Russell ran his own business – H.R.P. Services specialising in cable jointing and contracting to various regional electricity boards. A cable jointer



himself, Russell did his apprenticeship with the Midlands Electricity Board.

Russell's extensive involvement with ESITO and the creation of the annual cable jointers competition which started in 2007, saw him as competition organiser in 2008, 2009 and 2010. Russell is also an ESITO work place assessor, qualified to assess the national qualification for cable jointers in NZ.

Russell has been tasked with developing appropriate training packages for our industry as well as providing technical support to all our customers.

The Deloitte Energy Excellence Awards 2011

The Deloitte Energy Excellence Awards, held on August 17th at the Langham Hotel in Auckland was a fantastic evening celebrating achievement in our industry over the past 12 months.

Our supply partner, TE Connectivity were the category sponsor of the Lines Company of the Year award. This years winner was PowerCo, over the past 12mths PowerCo has shown they are industry leaders with regards to recent improvements and initiatives they have introduced to their business.

Roger Sutton, former CEO of Orion – with whom TransNet and TE worked very closely during the immediate recovery efforts in Christchurch, received a standing ovation from the guests for his part in the success Orion and their contractors experienced in restoring power to the city so quickly after the

devastation the Earthquakes caused. Roger was quick to point out that it was all credit to the tireless team members that got out there and made it happen. Rogers award – The Editor's Award for Outstanding Contribution to the Sector, will be displayed at the Orion Head office.



Acting minister of Energy & Resources Hon. Hekia Parata, PowerCo CEO, Nigel Barbour and TE Connectivity Industry Manager, Jason Woodcock

TransNet New Zealand Ltd Auckland

20 Neilpark Drive
East Tamaki
Auckland
NEW ZEALAND
Ph 0800 442 182
Fax 0800 442 183
PO Box 39 383
Howick, Auckland

Wellington

18 Sydney Street
Petone
Wellington
NEW ZEALAND
Ph 04 576 2530
Fax 04 576 0040
PO Box 39 383
Howick, Auckland

sales@transnet.co.nz

NEW ZEALAND

TransNet Equipment Pty Ltd Perth

7 Vulcan Road
Canning Vale WA 6155
Perth
AUSTRALIA
Ph +61 8 9256 3417
Fax +61 8 9256 3917
PO Box 1439
Canning Vale DC WA 6970

sales@transnetequipment.com

AUSTRALIA

TransNet Tonga Tonga

Small Industries
Ma'ufanga
TONGA
Ph +67 627 939
Fax +67 627 976

PO Box 2932
Nukualofa

transnet@kalianet.to

TONGA

