

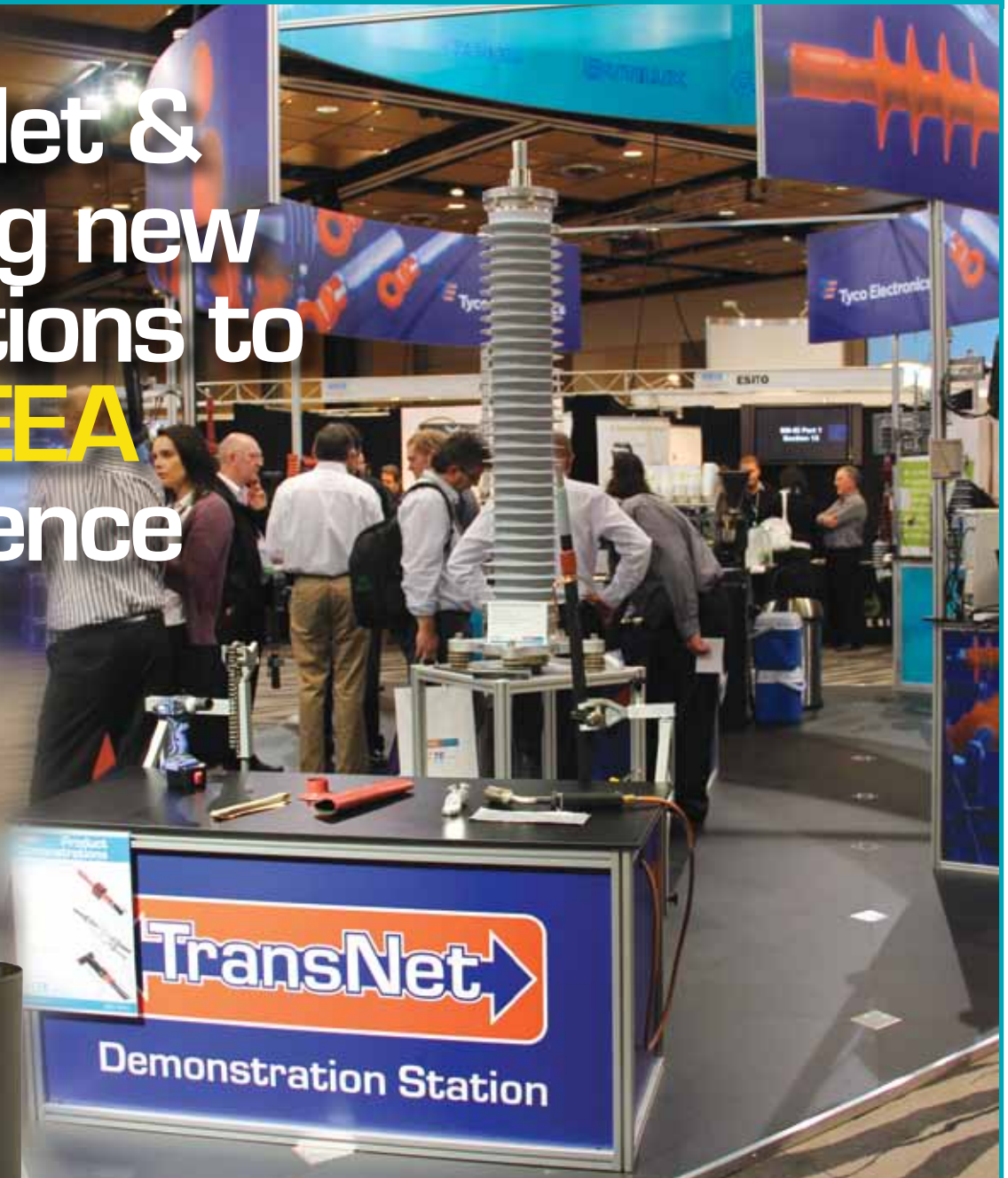
TRANSNET

HV JUICE



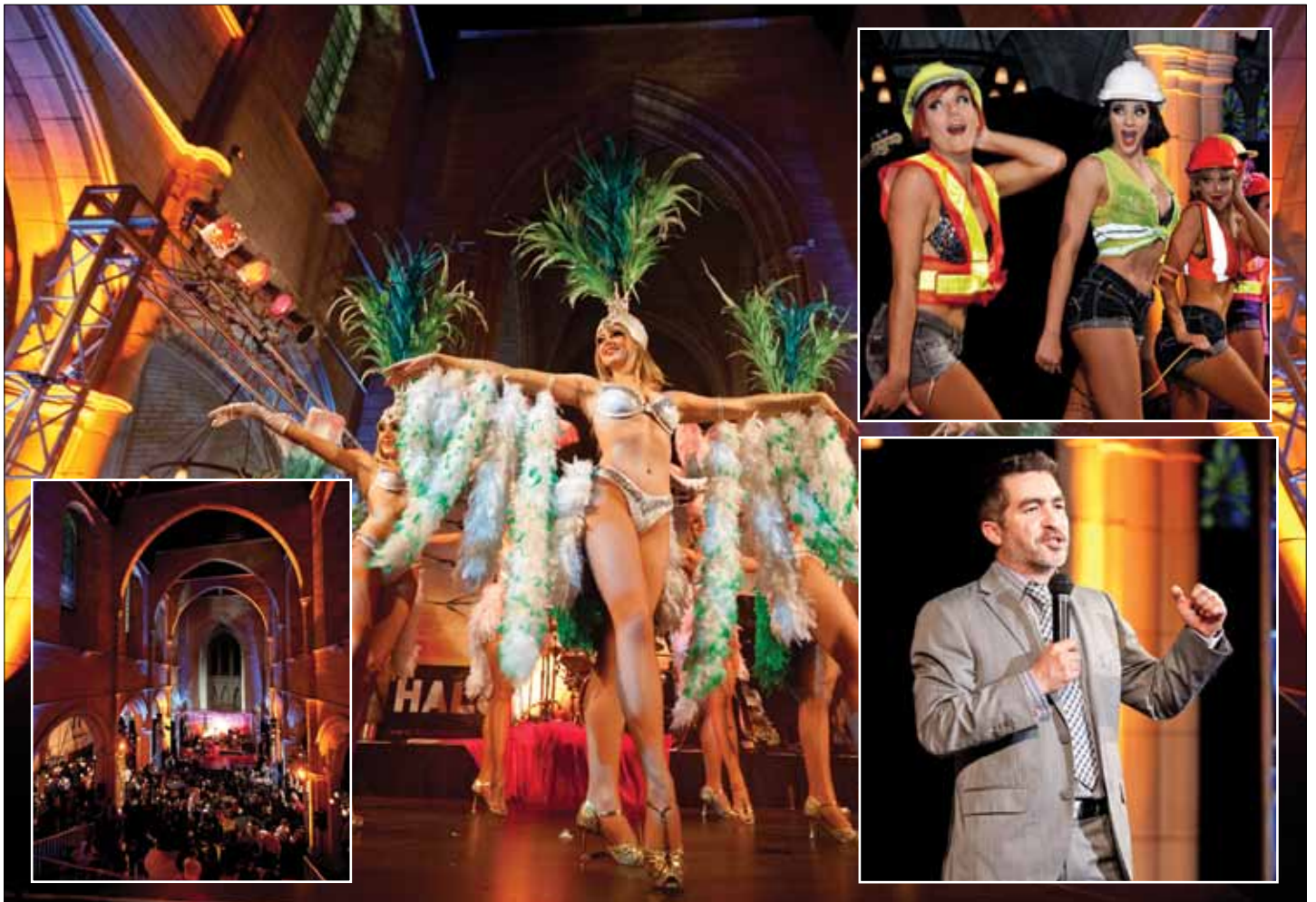
July | August 2011

TransNet &
TE bring new
innovations to
2011 EEA
conference



Ecopillars, the fully
customised solution for
distribution pillars

EEA 2011 – Trade Stand & TE Annual Function



TE Connectivity held their annual customer function on Wednesday 22nd to coincide with the EEA Conference & Trade show at Sky City! The function proved to be a great success with comedian Dai Henwood and a variety of performers entertaining the crowd. The TransNet Stand at the EEA 2011 Trade exhibition was interactive with product demonstrations & new innovations. (below)



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RSTI-LARGE Range – Elbows to fit up to 800mm², 1250amps, 42kV

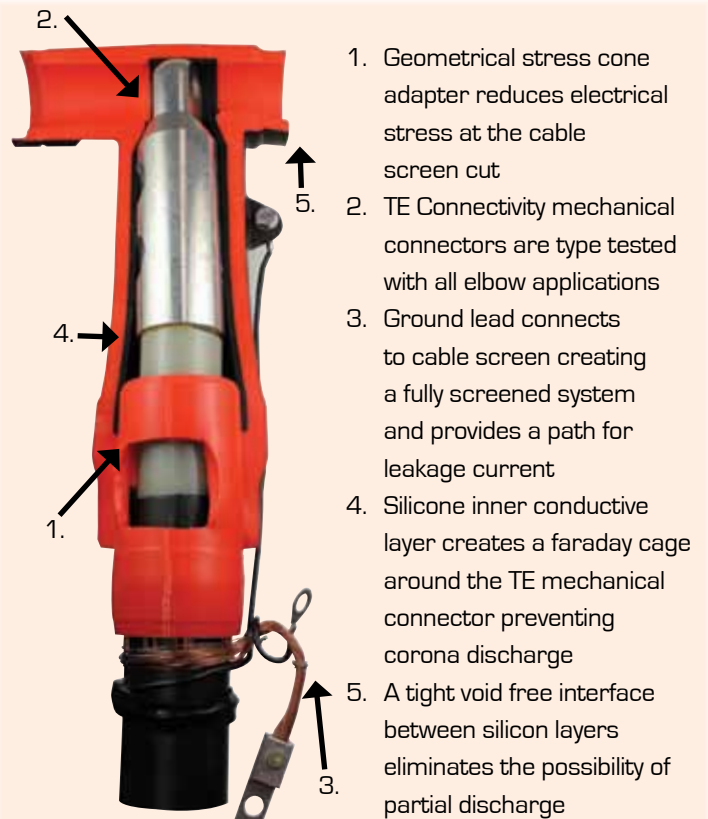
TE Connectivity's extensive range of screened separable elbows is second to none. The range includes a specially designed series to accommodate the larger cable sizes and the smaller switchgear units being installed in electricity networks around the world. The RSTI-LARGE range is designed to accommodate cable cross sections up to 800mm² and 1250amps up to 42kV. Until now, Elbow technology has been restricted to a maximum conductor size of 630mm².

The RSTI-LARGE range incorporates all the features of the existing RSTI ranges:

- Connector insulation is made of highly modified silicone rubber characterised by high tracking resistance, elongation at break and non-flammability.
- A thin-walled screen is permanently bonded onto the insulation and protects the connection system against accidental contact.
- The screened connector need not be removed for over sheath testing as all models include shield break design.
- The screened cable connector exceeds CENELEC HD 629.1 S2 requirements (including BS, VDE etc).
- Designed to fit 630A and 1250A bushings (interface "C1" and "C2") as specified by EN 50180 and EN 50181.
- Compact design supports the use of double "T" connections inside standard terminal boxes.
- Conductor connection with mechanical lugs.
- Easily accessible rear plug with capacitive test point.
- Earthing eye ground lead is positioned in the centre – short current path – also provides a visual inspection to ensure the connector is earthed.

Features specific to the RSTI-LARGE range:

- Compatible with all existing product.
- Improved current capability of mechanical lug up to 800A
- Unchanged depth of connection
- Cut back dimension optimised to 40mm.
- Threaded stud enhanced to M16.
- Maintenance free
- Special shape on the transition of the adaptor to main body – Improved field distribution allowing for cables with reduced insulation.



- Wide application range for 69xx series – 400-800mm² (including mechanical lugs)
- Specially designed lugs and M16 connection bolts to withstand dynamic short circuit and large current ratings
- The silicone body allows this product to accommodate a large application range.

For more information please call us on 0800 RAYCHEM



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CIREC Conference & Technical Sessions



21st International Conference and Exhibition on Electricity Distribution — Frankfurt Germany 6–9th June 2011.

As part of TransNet's continued investment in the Utility Industry, Ed Cheeseman attended the 2011 Conference and Technical Sessions in Frankfurt, in order to help understand the trends and issues facing the Electrical Distribution Industry across Europe and many other regions of the world.

Ed's comments were that it was a very worthwhile investment as it is clear the issues and trends are similar to those faced in NZ albeit on a different scale.

The Conference was focussed on Technical Presentations with a staggering 1300 + Technical Papers and 1100 delegates. It was sorted into 6 Streams with interactive poster sessions, round table, and normal sessions. iPADS seem to be the latest fashion accessory for Electrical Engineers. There was also a small but focussed Trade Exhibition (compared to IEEE or Hanover.)

Some of the Key themes/issues that were discussed are:

- Smart Grid of tomorrow will be built on the Assets of yesterday
- Develop more understanding of existing networks as a significant amount of Plant is at or near its "replacement date"
- Switchgear being designed so electronics are 'plug and play'. The electronics probably only last 10 years while the switchgear has a life of 30-40 years
- Full time PD Monitoring for critical network feeders is the trend rather than periodic inspections
- The potential to learn failures before they happen
- Several organisations offering database of PD measurements to help diagnose trends etc
- In Germany LV fault levels in Network increased dramatically due to high level of PV installations increased, and this will continue to be an issue as they look to replace the Nuclear Plants
- Impact of EV Charging on the LV Network was a fairly contentious debate
- Consideration of using the batteries connected to the network for charging as a source of backup during voltage dips/power shortages.
- Standards....IEC is a minimum
- PD Databases now becoming common
- IEC 61580 seems to be the communications protocol of choice.
- Power Quality Complaints appear to rise with the increasing cost of power
- Some consortia of Utilities in Europe are emerging (eg SMART LIFE) with a view to look at failure and aging mechanisms.
- One Utility is doing a study on upgrading their 10kV network to 20kV using their existing cabling and accessories, some initial testing was positive, they hope to make a decision by the end of the year.
- A lot of discussion on the SMART GRID, but it was not obvious that there was clarity of what it all meant going forward, although several large suppliers said they had all the technology to solve whatever problems the utilities thought they might need to solve.
- Developing sensors for use on existing equipment

Should any of these interest you or you would like further information, **contact Ed as he is only too happy to share this information**

Jointers Tool Specials

**SPECIAL
ON NOW**

Tool Roll for Jointers Tools

A canvas tool roll with flaps to cover and protect each tool from the others in the roll. Nylon strap and plastic clip to secure the tool roll for transportation and safe keeping.



Tools not included

Product # TOOLROLLBAG1

\$220.00
EXCL GST

Prices valid for July/August 2011 Only

Jointers Hack Knife

This hacking knife has a steel blade with twin leather scales riveted to the shaft. It can be struck with a hammer if required. 4.5inch long blade.



Product # GT/FOO182

\$48.00
EXCL GST

Ripper Stripper

For safe removal of cable sheaths without a knife. The pan head stops damage to inner core and accidental cuts to the user.

A safer alternative to using a knife.



Product # HRIPS

\$99.75
EXCL GST

Multipurpose Stainless Steel Boxes

These boxes are made out of 304 grade stainless steel 1.2mm thick, and come complete with an insulated gear plate. Other grades available on request. You will be impressed with the quality of these boxes for such a competitive price.

Features:

- Boxes have a stainless lock and key mechanism
- Hinged lid/ door has a rubber seal to limit water ingress
- Two sizes available (ex stock)
- IP65



CAT NO	DIMENSIONS	PRICE (EXCL GST)
SSBOX-303015	300mmH X 300mmW X 150mmD	\$125.00
SSBOX-403020	400mmH X 300mmW X 200mmD	\$150.00

Prices valid for July/August 2011 Only

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Michaud IPC Fuse Units

Michaud have a diverse range of products available to the market, with their factory and office based in France they work with distributors and asset owners all over the world to develop and improve fittings specific to purpose. One example of this is the K199 – TUDS service fuse, this fuse carrier was designed and tested by Michaud on our behalf to meet the requirements of an asset owner here in NZ.

We have a variety of these high quality connectors in our store. All are IPC (Insulation Piercing Connectors) meaning installation is fast and hassle free. We have fused tap off connectors for hot water and streetlight services right through to 160A DIN LV Cutouts (pole mounted house service fuses).



What makes Michaud Products superior?

- Continuous electrical path from pierce point to fuse contact, there are no screws to loosen with heat cycling, instead one piece of machined material to make the connection between conductor and fuse link.
- Spring element incorporated into fuse contact design for consistent contact.
- Teeth designed to centre conductor for precise high pressure connection.
- Sealed membrane at cable entry point which is pierced only when the cable is installed keeping the unit waterproof even before the service is connected.
- Captured fuse carrier is retained in the body of the housing even without fuse link.
- Greased contact points.
- Various mounting options available, LV Cutouts are most commonly mounted on sturdy galvanised single (supplied with unit) or triple brackets (sold separately).
- Shearhead bolts to ensure correct torque is reached, providing a high pressure connection every time.
- Bolt end won't damage stranded conductors.
- UV Stabilised materials used for longevity.



MICHAUD

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MI3202 GigaOhm 5kV – Insulation Tester

MI3202 GigaOhm provides quick and accurate testing of insulation resistance. Five test voltages up to 5kV and 1 T resistance measuring range covers most of the industrial and power distribution applications. Large analogue, LCD screen for easy to read results. Durable carry case for protection.

Key Features

- Quick set up
- Fast testing
- Guard test terminal
- Automatic discharge
- Safe high CAT IV/600V protection
- Built-in charger and rechargeable batteries
- High quality accessories included
- Portable and Lightweight

Product # MI3202

\$4041⁰⁰
■ EXCL GST



Measuring Features

- Quick and accurate testing of insulation resistance
- Insulation resistance measurement
- Voltage measurement
- Frequency measurement



Large backlit LCD screen



Prices valid for July/August 2011 Only

MI3200 TeraOhm 10kV – Insulation Tester

MI3200 is a portable instrument intended to measure insulation resistance by using high DC test voltages up to 10kV. MI3200 enables insulation resistance measurements up to 10V, step voltage test, withstanding voltage test, PI, DD and DAR calculation and capacitance measurement. The large LCD screen enables real-time graph R(t) to be displayed. Results can be stored and downloaded. Quick and effective insulation testing.

Key Features

- Wide range of DC test voltages
- Withstanding voltage
- Step voltage
- Automated testing
- Guard test terminal
- Fault finding
- Graph R(t)
- Built-in timer
- Automatic discharge
- Fast testing
- Accurate measuring
- Safe
- Built-in charger and rechargeable batteries
- Portable and lightweight

Measuring Features

- Insulation resistance measurement
- Step voltage insulation resistance testing
- Withstanding voltage testing
- Diagnostic test (PI, DD, DAR)
- R(t) graph plotting
- Capacitance measurement
- Voltage measurement
- Frequency measurement



Intuitive keypad and connectivity to PC through RS 232 and USB



Prices valid for July/August 2011 Only



New Catalogues & Poster

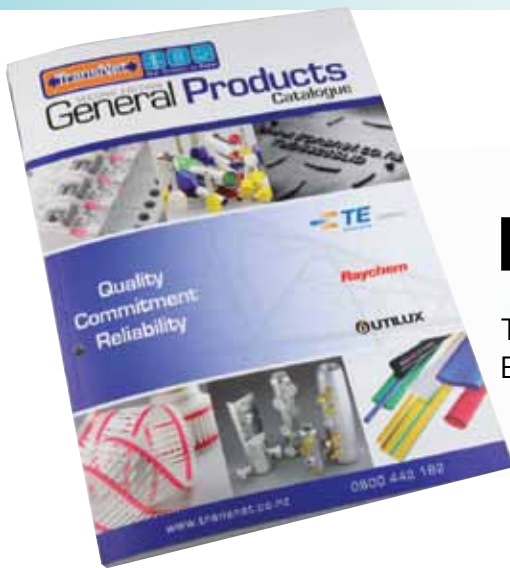
For a copy contact your local rep or our customer service team.



The New Era in Distribution Pillars



TransNet New Era catalogue features TUDS and Ecopillars.

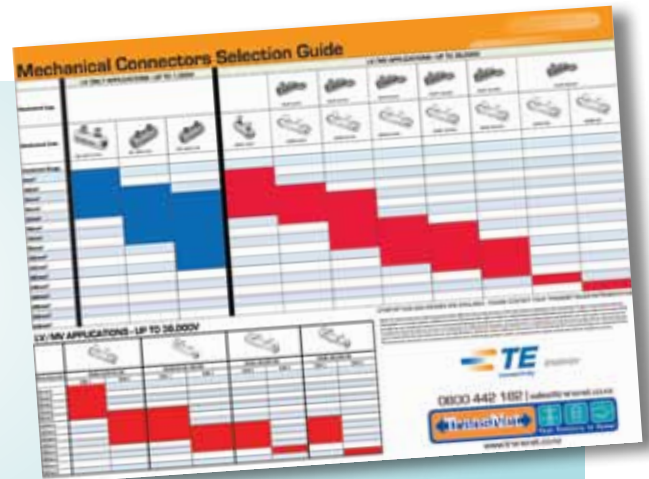


New Catalogue

TransNet General Products Catalogue – Edition two is available now.

Mechanical Connectors Selection Guide

New Mechanical Connector Selection Chart – Wall or counter chart outlining the TE Energy Mechanical Connector range and part numbers for ordering.



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