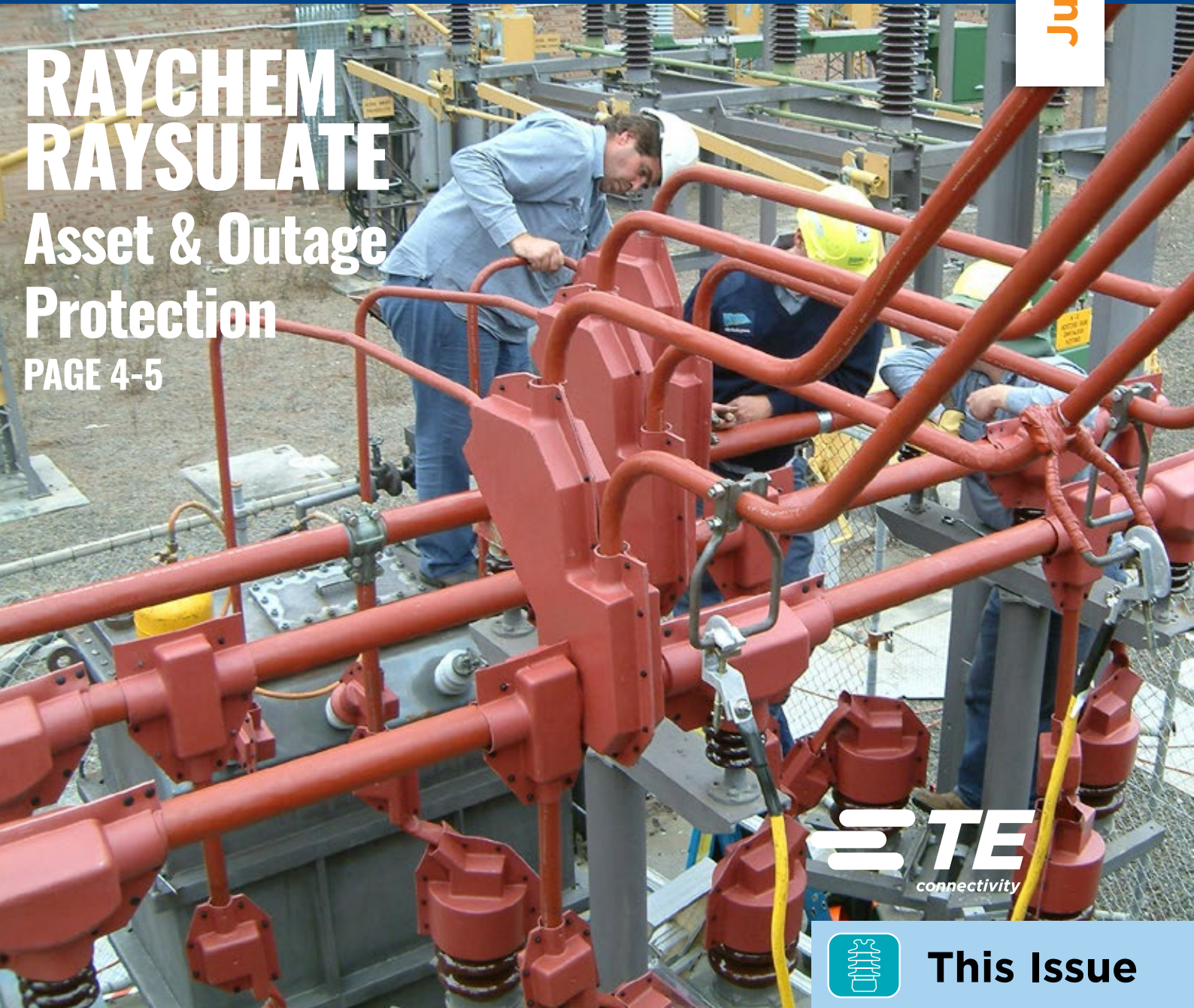


HV JUICE

**RAYCHEM
RAYSULATE**
Asset & Outage
Protection
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**ECOLight
Solar LED
Streetlight Kit**
PAGE 3

www.transnet.co.nz





This premium grade flame-retardant polyolefin heatshrinkable tubing has outstanding all round performance, flexibility, and good chemical and solvent resistance. Used extensively in military & utility applications for lightweight harness jackets, insulation, colour coding, identification, protection against fluids, and added mechanical strength.

TECHNICAL DATA

- Excellent UV resistance
- Flame retardant (Black/colours only)
- Operating temp. -55°C to 135°C
- Min. shrink temp. 95°C
- Minimum full recovery temp. 121°C
- Shrink ratio 2:1
- Available in 1200mm lengths or spools
- MIL spec approvals

RESILIENT
DURABLE
STRONG
TOUGH
RNF-100



HEATSHRINK



EziShrink Thin Wall Tubing is a high quality, heatshrinkable product for a variety of uses. Made from Flame Retardant Polyolefin Material, EziShrink has excellent physical, chemical and electrical properties.

TECHNICAL DATA

Rated Voltage: 600 Volts

Dielectric Strength: 15kV/mm

Tensile Strength: 10.4Mpa

Available in 1200mm stick lengths

Shrink Ratio 2:1

OPERATIONAL PARAMETERS

Operating Temperatures: -55°C up to 125°C

Shrink Start Temperature: 70°C

Longitudinal Shrinkage: Less than 8%

UL recognised to standard 224

EFFICIENT
EFFECTIVE
EZISHRINK



**SOLAR
STREET
LIGHT**

70W

Solar Module

20W

LED Lamp

4.5M

Galvanised Steel Pole

8 HOURS

Lamp "On" Time (Adjustable)

UP TO 3 DAYS

"No Sun" Days

IP65

IP Rating

OUTSTANDING DESIGN



The 20W ECOLIGHT LED streetlight head delivers exceptional performance while substantially reducing operational costs. This cutting edge LED luminaire is perfect for most road lighting applications.

The design incorporates high lumen output with excellent optical design and light distribution achieved by the dual LED chips angled optimally to get optimum light spread. All this contained within a robust IP65 housing.

TOTAL PACKAGE

When installing a solar powered light it's important to make sure you have all the components required to do the job. The ECOLIGHT solar LED street light kits are comprehensive, offering you everything from the luminaire right through to the pole and the batteries, all packaged up and ready to install.

With Galvanised Steel poles, Stainless Steel control boxes and Lithium batteries these units command respect from the outset. Built to perform in the harshest of environments, they provide an effortless solution to even the most demanding of situations.

IDEAL FOR

- City streets
- Highways
- Public parks
- Car parks
- Subdivisions
- Hospitals
- Corrections Facilities



Part No. LEDSOLAR-ST20KIT

\$3950.00^{+GST}





TE Wildlife & Asset Protection Products:

- **Bus Insulation & Clearance Reduction** - Busbar insulating tubing, Busbar insulating tape, Busbar insulating sheet, Busbar insulation connection covers
- **Substation** - Bus isolation wildlife guard, Bushing connection wildlife covers, Bushing connection inspection covers, Bus connection insulating covers, MV fusion tape, MV conductor cover
- **Overhead** - MV line covers, Birdcap protection covers, Deadend & suspension clamp covers, Distribution covers for wildlife protection, Avian flight diverters
- **Low Voltage** - LV insulation tubing, Modular busbar insulation connection covers, LV insulating covers, LV bushing covers
- **Contamination/Flashover Prevention** - Creepage extenders, Booster sheds, Polymeric & porcelain rigid red guano shields

**Solution available
for 95% of
market needs.**

**AND THE
WILDLIFE!**

“TE estimates that **damage** to electrical substations could be **reduced** by as much as 80% simply by **applying insulation**”.

Raychem
from TE Conn



“**Damage** to electrical substations could be **eliminated** and a **reduction** in **outages** achieved by proactively applying **TE’s Wildlife & Asset Protection products**”.

**PROTECT
THE
POWER**

Features:

- Easy to install
- Flame retardant materials
- Consistent, reliable installation
- High resistance to arcing & tracking
- Perfect for new or retrofit situations
- Can offer clearance reductions in many applications
- Perfect for enclosed & exposed bus work, switchgear connections, substations, & other electrical apparatus
- Excellent electrical & thermal performance
- Made from high dielectric strength, radiation crosslinked, heatshrinkable & cold applied materials
- Compatible with other insulating materials - not affected by common plasticisers used in conventional switchgear insulating materials

TE
connectivity

For more information on available products please contact your local TransNet or TE representative.



POLE RAMMER

**NEW
PRODUCT**

POLE RAMMER

- 2m long
- 80mm diameter ram head
- Weighs 7kg
- 34mm O.D. handle



Designed for ramming soil around poles as they are installed. This rammer packs enough weight to make the job fast and easy, while being light enough to easily carry and position on the truck.



PF250 - SOLVENT CLEANING WIPES

PF Solvent is a full strength solvent degreaser, suitable for use on high, medium and low voltage applications and leaves no residue after complete evaporation.

FEATURES

- High performance residue free solvent cleaner & degreaser wipes for cable cleaning prior to jointing & maintenance of cables, switchgear equipment
- Residue free ensures no earth tracking or hot spots
- Reduced installation faults for maximum cable life
- High voltage approved (up to 440kV)
- Classified as combustible – eliminates hazardous transport, storage logistic issues
- Wipes reduces solvent consumption & VOC emissions
- Improves Health & Safety; reducing exposure to hazardous substances
- Wipes eliminate liquid spillage, pollution risks & other liquid related issues
- Wipes are designed to prevent solvent loss & evaporation during storage
- Also available in liquid
- Designed to IEEE Recommendations





The **A1143** is a professional portable test instrument intended for low impedance measurements in environments up to CAT IV /310 V. It can operate alone or in combination with other METREL instruments. High precision line impedance and high precision fault loop impedance measurements in range from 0.1 mΩ up to 19.99 Ω are its forte.

Built-in LCD offers easy reading of impedance result. The operation of the instrument **A1143** is clear and simple.

KEY FEATURES:

- Independence: instrument is designed to work independently or in conjunction with: MI 2086 Eurotest 61557, MI 3101 EurotestAT, MI 3105 EurotestXA and MI 3321 MultiServicerXA.
- Range widening: adapts the instruments to read from 0.1 mΩ up to 19.99 Ω.
- Multi-system testing: works on both single phase and 3-phase systems (110 V to 440 V).
- IPSC and IPFC calculation: IPSC and IPFC readings calculated up to 400 kA.
- Comfortable carrying: all the accessories are put in the strong, rugged, durable case of the instrument.
- LCD: Built-in LCD for standalone measurements.

STANDARDS:

Electromagnetic compatibility (EMC)

- IEC/ EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements Class A (Hand held equipment used in industrial EM environments)
- IEC/EN 61326-2-2 Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-2: Particular requirements Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in lowvoltage distribution systems

Safety (LVD)

- IEC/ EN 61010 - 1 Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements
- IEC/ EN 61010 - 031 Safety requirements for hand-held probe assemblies for electrical measurement and test

Functionality

- IEC/ EN 61557 Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. Equipment for testing, measuring or monitoring of protective measures

MEASURING FUNCTIONS:

- High precision line impedance;
- High precision fault loop impedance;
- Contact voltage



Product Code: A1143

SUPPORTED INSTRUMENTS:

A1143 is automatically recognized by Metrel instrument.

Supported instruments are:

- MI 3105 EurotestXA
- MI 3101 EurotestAT
- MI 2086 Eurotest 61557
- MI 3321 MultiservicerXA



PROTECTING YOUR ASSETS

How to Combat Copper Theft



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

NEW ZEALAND

sales@transnet.co.nz

TransNet Equipment Pty Ltd

Perth

Unit 20, 8 Hurley Street
Canning Vale WA 6155
Perth
AUSTRALIA
Ph +61 8 9256 3417
Fax +61 8 9256 3917
PO Box 1439
Canning Vale DC WA 6970

AUSTRALIA

sales@transnetequipment.com

TransNet Tonga

Ma'ufanga

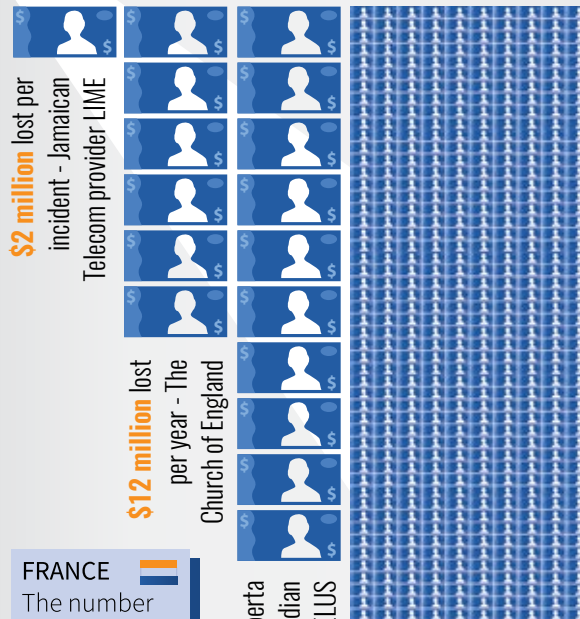
Small Industries
Ma'ufanga
TONGA
Ph +67 627 939
Fax +67 627 976
PO Box 2932
Nukualofa

TONGA

transnet@kalianet.to



THE COSTS



FRANCE

The number of reported copper theft incidents rose to over 9,000 in 2013.

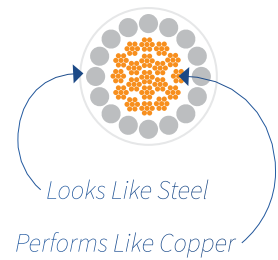
\$20 million in Alberta & BC alone - Canadian telecom provider TELUS

\$1 BILLION yearly cost to American businesses
- US Department of Energy estimate

THE SOLUTION?

ERICO® CU-BOND COMPOSITE CABLES

These concentric stranded conductors consist of tinned strands of copper-bonded steel which protect and conceal the internal tinned copper strands. They function as copper conductors, but appear to be non-copper conductors and are difficult to cut and steal. Ideal for exposed electrical distribution grounding leads where copper theft may occur. Theft deterrent conductors offer a solution to safeguard your facility's copper infrastructure.



SAFEGUARDS

ALARMS



These exist specifically for protecting copper cables.

BUT: By the time an alarm is signaled it can be too late to catch the theft in progress.

SECURITY



Grow your security force.

BUT: Can be costly and cut into your revenue on a daily basis.

MARKING



Marking each cable can help to catch thieves once they try to sell the copper.

BUT: Doing so won't stop them from walking away with it to begin with.



Contract Connections

ERICO

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