

HV JUICE

The Future is
CLEAR

CLEAR LENS LIFT FRONT HOOD
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NEW

MADE IN THE USA



DEL



This Issue

ALLIED INSULATORS
AIRBREAK SWITCHES

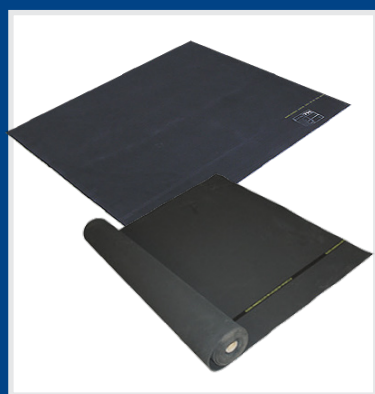
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Work Mats
by Balmoral**
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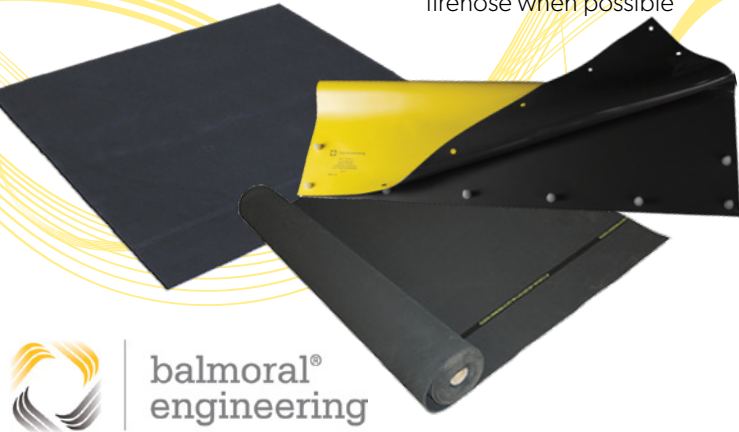




BALMORAL INSULATING MATS & COVERS

Features

- EPDM Rubber or PVC material options
- Dual colour material safety options available
- Ground covers are non-slip & flexible
- PVC style line covers have crease to conform to line
- Meets all relevant international standards
- Weather resistant
- Stamped & rated to comply with Australian & International Standards
- Off-cuts in the manufacturing process are recycled into firehose when possible



HELMET WITH INTEGRATED FACE SHIELD

The ErgoS Intec power is a helmet with integrated face shield to protect its wearer from getting burned in case of an arc flash incident. It is a very ergonomic solution for all day work.

Features

- Premium anti-fog coating
- Helmet useable until -40°C
- Arc Protection Classification ASTM F2178, ATMV - 28 cal/cm²
- Colour Reproduction Index/Optical Class >93%/Klasse 1
- Durability 4 years



MARIGOLD RUBBER INSULATING GLOVES

Features & Benefits

- Pure latex gloves manufactured under ISO 9001 & ISO 14001
- Dual layer construction
- Certified to EN 60903
- Also available in ASTM D120
- Ergonomically shaped
- Excellent strength & durability
- Supreme feel & flexibility
- Manufactured without the use of solvents & hazardous chemicals
- Low temperature, acid, & ozone resistant
- Leather overgloves also available
- Chlorinated for easy donning & duffing
- Straight, contour & bell cuff styles available
- Arc Flash certified



How To Order

Example = RIG-4-18-YB-C-10H

T T T T T T
A B C D E F

A - Glove Type: RIG (Rubber Insulating Glove)

B - Class: 00/0/1/2/3/4

C - Length: 11/14/16/18 (inches)

D - Colour: R/Y/YB/BY (Red, Yellow, Yellow under Black, Black under Yellow)

E - Cuff: S/C/B (Straight, Contour, Bell)

F - Size: 7/8/8H/9/9H/10/10H/11 (H= 1/2 sizes)

Glove Size	Nominal Hand Circumference	
7	7 inches	178 mm
8	8 inches	203 mm
8½	8½ inches	216 mm
9	9 inches	229 mm
9½	9½ inches	241 mm
10	10 inches	254 mm
10½	10½ inches	267 mm
11	11 inches	279 mm

Tolerance = +/- 13 mm
*Allow an extra half inch if using cotton inners



Glove Length

- 280 mm (11 inch)
- 360 mm (14 inch)
- 400 mm (16 inch)
- 460 mm (18 inch)

Class Colour	Max Use* Voltage AC/DC	Illustrative Labelling
00 BEIGE	500/ 750	ANSI ASTM D120 EN60903 MAX USE 500V AC TYPE 1 10 CLASS 00
0 RED	1,000/ 1,500	ANSI ASTM D120 EN60903 MAX USE 1,000 V AC TYPE 1 10 CLASS 0
1 WHITE	7,500/ 11,250	ANSI ASTM D120 EN60903 MAX USE 7,500 V AC TYPE 1 10 CLASS 1
2 YELLOW	17,000/ 25,500	ANSI ASTM D120 EN60903 MAX USE 17,000 V AC TYPE 1 10 CLASS 2
3 GREEN	26,500/ 39,750	ANSI ASTM D120 EN60903 MAX USE 26,500 V AC TYPE 1 10 CLASS 3
4 ORANGE	36,000/ 54,000	ANSI ASTM D120 EN60903 MAX USE 36,000 V AC TYPE 1 10 CLASS 4

Insulating Gloves and Sleeves must have a colour coded label to meet appropriate ASTM Specifications.
*Max Usage Voltage when worn with leather protectors





NEW

OEL LIFT FRONT HOOD WITH CLEAR LENS – 40 CAL

FEATURES

- Innovative design
- Extended peripheral vision
- Permanent clear
- Permanent anti-fog
- Highly transparent
- Lift front design
- Indirect ventilation
- Made In America
- Advanced Colour Differentiation Technology
- Lightweight polycarbonate material
- Meets CSAZ462, NFPA 70E, ASTM 1506-2001 and OSHA 1910-269 requirements



The 40 Cal clear lens lift front hood maximises the ATPV (Arc Thermal Protection Value) of 40 Cal/cm² with a grey colour providing excellent field of view and an ergonomic assembly that is convenient for the worker.

OEL Arc Rated clothing is built from the highest grade of FR textiles in the USA and meets all relevant international standards. OEL offers a superior product to its competition. Rest assured that you and your employees are taken care of.

OEL Arc Rated clothing is available in Switchgear Hoods, Coveralls, Jacket & Bibs, and Long (50") Coats, in sizes S to 5XL from 12 Cal up to 74 Cal.

VIEW THE FULL RANGE ON OUR WEBSITE

The Future is CLEAR



AFW019LF-N



Problems with insulators breaking? Fix with proven durable UK designed & manufactured ABS

Possibly the fastest and easiest ABS to install on the NZ market today

Ground mounted handles or adjustable to any height on your pole

Plain break arcing horns or load break interrupter head options available

Available in all voltages 12kV-36kV and ratings up to 630A

Manufactured and tested in accordance with IEC30265-1, IEC60694, IEC 62271, BSEN60129, and ENATS 41-36

Easy retrofit for replacement of standard NZ ABS on double crossarms

Extra wide clearance when open - no issues with MAD when earthing deenergised side of the ABS

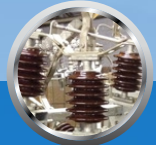
Meets requirements of ENA Engineering Recommendation G18



Made in the UK



Assembled & customised to your specifications in NZ



Operational Category (ENA Engineering Recommendation G18)

CAT 2

CAT 0

MECHANISM	DEPENDENT MANUAL	INDEPENDENT MANUAL
ARC CONTROL	ARCING HORNS	INTERRUPTER HEADS
RATED CONTROL (UR)	11KV/36V	
NUMBER OF PHASES	3	
FREQUENCY (F)	50/60HZ	
RATED NORMAL CURRENT (LR)	20A	630A
RATED PEAK WITHSTAND CURRENT (LP)	40KA	



Allied Insulators

More questions? Contact your TransNet rep or our office on 0800 442 182 to book an on site demonstration.



DUSPOL CONTINUITY TESTER

M611E

KEY FEATURES

- Direct display without activating a pushbutton – high-resistance test
- Load connection via pushbutton – low-resistance test
- Continuity test via buzzer and LED and/or LCD
- Vibration alert in tester handle
- Illumination of measuring point
- Rugged housing with rubberized grip
- Impact resistant, dust-tight and splashing water protected housing (IP64)

MEASUREMENT FEATURES

- Single pole phase test
- Continuity test
- Voltage indicator
- Polarity test



GOSSEN METRAWATT

MI3210 TERAOHM XA 10KV INSULATION TESTER

The MI3210 is a portable battery or mains powered test instrument with excellent IP protection, intended for diagnosing of Insulation Resistance by using high DC test voltages of up to 10 kV. Because of its robustness and high immunity to radiated RF fields it is best suited for industrial environment.

KEY FEATURES

- Insulation resistance up to 20 TΩ
- Adjustable test voltage (50V...10kV) 50V & 100V step
- Capacitance measurement
- Charging rate for capacitive load < 3 s / μF at 10kV
- Automatic discharge of test object after completion of measurement
- Guard terminal
- High voltage breakdown detection
- Results in numerical & graphical form
- PC software HVLink PRO – downloading & analysing of results & report printing
- Isolated RS232 & USB communication ports, BT interface

MEASURING FUNCTIONS

- Insulation Measurement
- Diagnostic Test (PI, DAR, DD)
- Step Voltage Test
- Mains & rechargeable battery power supply

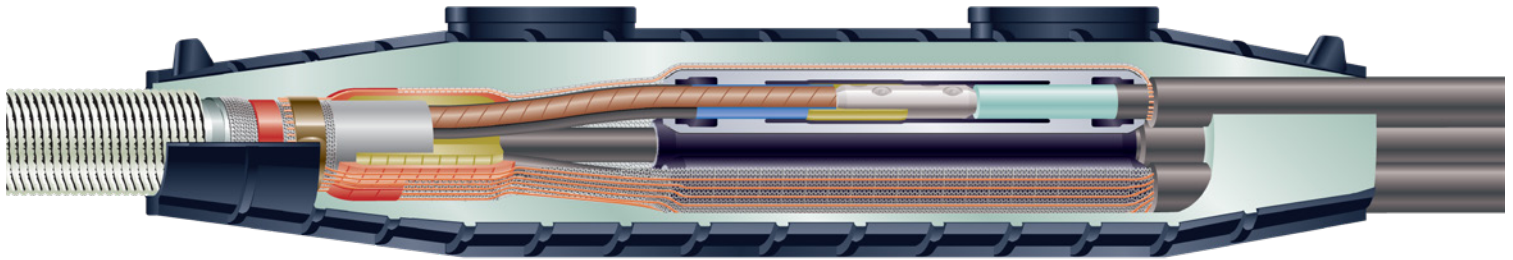


[VIEW FULL SPECIFICATIONS](#)



www.transnet.co.nz
Keyword MI3210

METREL®



CATJ joints offer a reliable, robust and easy-to-install full cold applied transition jointing system to assure and maintain high network reliability. The key components are pre-expanded allowing a very short parking length during cable preparation and fast installation. Paper cables are sealed with oil blocking silicone tubing and oil-blocking material. The high performance material properties in combination with pressure tapes provide reliable sealing and protection against oil and water. A silicone rubber joint body

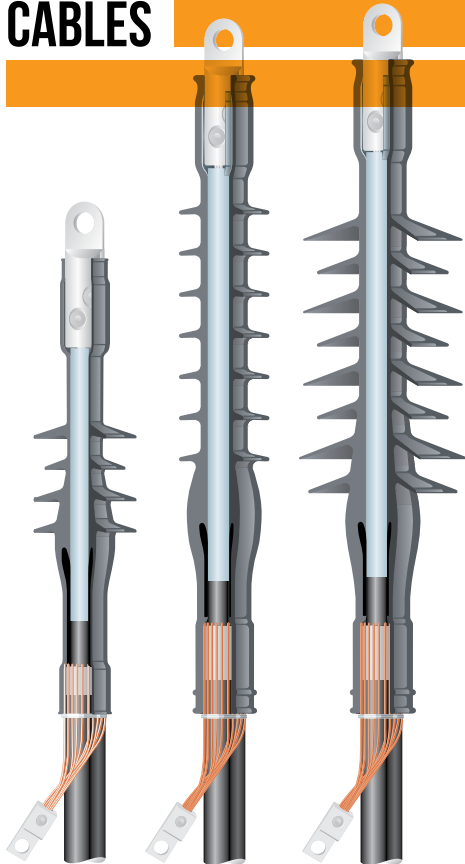
CATJ COLD APPLIED JOINTS FOR 3-CORE PAPER & POLYMERIC INSULATED CABLES

with integrated geometrical stress cones and Faraday cage provides excellent electrical performance. Raychem CATJ cold applied transition joints are designed to cover a wide range of applications and to accommodate the variety of cable and conductor types in the networks. Range-taking mechanical connectors are supplied with the kit, ensuring reliable installation and service.

FEATURES

- Entirely cold-applied solution with cold shrinkable silicone joint body and oil-blocking materials
- Novel crutch filling and core sealing materials providing high-quality oil-blocking properties

- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector area by an integrated screened connection area (Faraday cage)
- Well known and easy to install holdout system
- Proven solderless shield continuity concept
- Exceeds CENELEC HD 629.2 requirements which include IEC, BS, VDE and other international standards like IEEE-404
- Mechanical shear bolt connector to IEC 61238-1 supplied with the kit



These cold shrink terminations are made from a high performance, liquid silicone material specially formulated for excellent tracking and split resistance. The extra-long silicone stress cone is integrated within the termination to ensure correct positioning.

FEATURES

- Easy to install spiral holdout
- Integrated sealing mastic
- Outstanding weathering, UV & Ozone Resistance
- Chemically resistant
- Resistant to fungi
- Excellent electrical properties, with good tracking resistance & high dielectric strength
- Electrical stress control of the screen cut area using integrated conductive geometrical stress cones
- Hydrophobic (water-repellent)
- Non-flammable
- Self-extinguishing
- Wide temperature range -45 to +150°C

CSTI/CSTO COLD SHRINK TERMINATIONS FOR POLYMERIC INSULATED CABLES

- Mechanical shear bolt lug & compression lug to IEC 61238-1 can be supplied
- CENELEC HD 629.1.S2, requirements which include IEC, BS, VDE & other international specifications, IEEE-48
- Manufacturing site ISO 9001 & ISO 14001 qualified

BENEFITS

- Pre-expanded termination body with integrated stress control deflector & sealing mastic
- Single piece silicone termination body with optimal mechanical expansion ratio allows a wide application range
- Moisture sealing at the lug is integrated – no additional sealing tapes
- Well-known and easy-to-install holdout system, rip cord pulling direction towards the lug not the bottom of the termination
- Easy to install in tight switchgear compartments



Raychem
from TE Connectivity



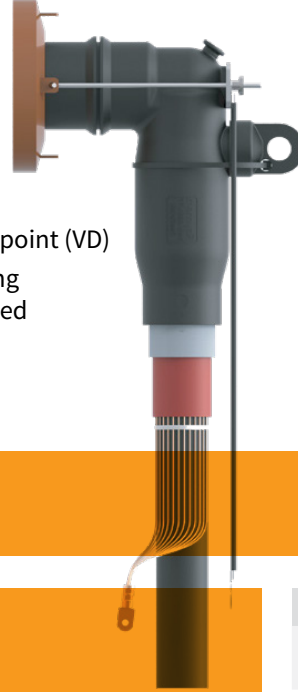
RSES SCREENED ELBOW SEPARABLE CONNECTORS

FOR INTERFACE A (EN 50180/EN 50181): 250A, UP TO 24 kV WITH INTEGRATED SEALING

FEATURES

- Wide range taking
- Mechanical shearbolt cable lugs included
- Hybrid material design for excellent mechanical and electrical performance
- Reliable operation even under harsh environmental conditions
- Can be sheath tested without removal from cable or switchgear
- Screened connector body for improved safety
- Molded cable adapter with integrated

- sealing for easier installation
- Voltage Detection point (VD)
- Wire shield earthing accessories included



TE's Raychem Screened Elbow Separable connectors RSES are designed to connect single-core polymeric cables to medium voltage gas insulated switchgears and other equipments using bushings type "A" (according to EN 50180/EN 50181) specified for 250A continuous current. The RSES connectors are compliant with CENELEC HD 629.1 S2 02/2006+A1:2008. and tested for a system voltage up to 24 kV.

Made of a combination of durable EPDM rubber for the outer body and highly modified silicone rubber for the inner insulation, RSES are equally suited for indoor and outdoor installations even in harshest environments while offering outstanding electrical performance. The separable connectors are screened by an earthed outer conductive layer that ensures a safe and reliable operation. Furthermore the improved cable adapter with integrated sealing enables a fast and easy installation.

Using mechanical shear bolt cable lugs,

RSES are easy and quick to install while supporting a wide range of different cable cross sections (16-150 mm²). These RSES connectors are equipped with a capacitive Voltage Detection point (VD) to determine the presence of voltage in the cable network and Wire Shield Earthing Accessories (E).



RSSS straight separable connectors are also available on request, please contact us for more information.

Technical Data	
Conductor Cross Section Range	16-150MM ²
Diameter Over Conductor (round, stranded)	4.6-15.0MM
Diameter Over Conductor (round, solid)	3.5-13.8MM
Cable Insulation Diameter Range	12.7-28.5MM
Maximum System Voltage	24KV
Continuous Current Rating	250A
Basic Impulse Level	125KV
Partial Discharge at 2U ₀	<3PC
AC Voltage Withstand, 5 min	57KV
DC Voltage Withstand, 15 min	76KV

TE's RSES separable connectors pass a 100% routine test procedure including: AC Voltage Withstand and Partial Discharge Test.

Cat No.	Connector Type*	Conductor Cross-Section (mm ²)*			Diameter over Insulation (mm)
		12kV	17.5kV	24kV	
RSES-VD-525A-E	ELBOW	16** - 70	16** - 50	16**	15.3-25.0
RSES-VD-525B-E	ELBOW	95	50-95	25-95	21.9-28.5
RSES-VD-525C-E	ELBOW	95-150	70-120	70-95	15.3-25.0
RSES-VD-525D-E	ELBOW	-	120-150	70-150	21.9-28.5

* Applicable for conductors acc. to IEC 60228 class 1, class 2 compacted and class 5 compacted.

** For Al class 1 & Cu class 5: 25mm²; For Cu class 1: 10mm²

VD = kit with voltage detection point

E = kit with wire shield earthing accessories



Raychem
from TE Connectivity

Sustainability, Innovation & Infrastructure

Fully Operational 150kW Microgrid



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As the EEA Annual conference and trade exhibition approaches, we're getting ready to host the delegates here at our head office in East Tamaki for a presentation about our very own fully functioning Microgrid. With 150kW of solar generation, a 30kW/130kWh Vanadium Redox flow technology energy storage system, and a very smart interface operating it, we are not only able to fully power our own building, but also an eight unit EV charging network, and we even supply back to the grid when required.



This Micro Grid is the only one of its kind in New Zealand and we are proud to be able to show the delegates how it works. In addition to the Micro Grid, there are a range of sustainability initiatives we will also showcase and of course our concept-to-install EV charging infrastructure and how our products are equipped to automatically charge during off peak times to reduce the demand on supply. If you're attending the EEA this year and haven't yet registered your interest to attend the site visit at TransNet, get in touch with the conference organisers and register now, spaces are limited.

EEA Conference & Events: 04 384 1511 | eea2019@confer.co.nz

EEA CONFERENCE 2019

26TH-27TH JUNE, SKYCITY CONVENTION CENTRE

We'll be located in the same position as last year in the middle of the exhibition hall (stands 76, 77, 84 & 85). We're excited to have our supply partner TE Connectivity on the stand with us again and another supply partner – Ormazabal – have a stand this year just next to ours (stand 31 & 32), so be sure to check them out. They have a range of distribution network substation solutions.

As always, we'll have the latest innovations from our suppliers on show, be sure to stop by and check them out.

EEA TRADE EXHIBITION PUBLIC VIEWING HOURS:

Wednesday 26th June, 9am – 12pm & 2pm – 5pm

Thursday 27th June, 9am – 12pm

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