

HV JUICE



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18V CORDLESS KIT



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RAYCHEM SCREENED SEPARABLE CONNECTORS



TE Connectivity (TE) has decades of experience in the field of medium voltage termination systems for distribution networks. With TE's new Raychem Screened Elbow and Straight Separable connectors RSES/RSSS, TE further extends its comprehensive and reliable switchgear connect portfolio.

TE's Raychem Screened Elbow and Straight Separable connectors RSES/RSSS 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. RSES and RSSS 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 and RSSS connectors are equally suited for indoor and outdoor installations even in harshest environments while offering superior electrical performance. The separable connectors are screened by an earthed outer conductive layer that ensures a safe and reliable operation.

Using mechanical shearbolt cable lugs, RSES and RSSS are easy and quick to install while supporting wide ranges of different cable cross sections (16-95 mm² and 70-150 mm²). TE's RSES and RSSS connectors can be equipped with a capacitive Voltage Detection point (VD) to determine the presence of voltage in the cable network.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

PRODUCT FEATURES

- Range taking mechanical shearbolt cable lugs
- Hybrid material design for excellent mechanical and electrical performance
- Reliable operation even under harsh environmental conditions
- Screened connector body for improved safety



Technical Data

Conductor Cross Section Range	16-150mm ²
Diameter over Conductor (Round, Stranded)	5.6-15.0mm
Diameter over Conductor (Round, Solid)	5.2-13.8mm
Cable Insulation Diameter Range	15.3-28.5mm
Maximum System Voltage	24kV
Continuous Current Rating	250A
Basic Impulse Level	125kV
Partial Discharge at 2 u ₀	<3 pc
AC Voltage Withstand, 5 min	57kV
DC Voltage Withstand, 15 min	76kV



Raychem
from TE Connectivity

Cat No.	Connector Type	12kV Cross Section (mm ²)	24kV Cross Section (mm ²)	Diameter over Round Stranded Conductor (mm)	Diameter over Round Solid Conductor (mm)	Diameter over Insulation (mm)
RSSS-5251	STRAIGHT	50-95 ¹	16-95	5.6-12.9	5.2-11.0	15.3-25.0
RSSS-5252	STRAIGHT		70-150	9.3-15.0	8.7-13.8	21.9-28.5
RSES-5251	ELBOW	50-95 ¹	16-95	5.6-12.9	5.2-11.0	15.3-25.0
RSES-5252	ELBOW		70-150	9.3-15.0	8.7-13.8	21.9-28.5

By default all kits do not contain accessories for earthing of the cable screen. Add "-E" to the end of the kit designation for a kit that includes wire screen earthing accessories.

¹Larger cross sections on demand.

Ph 0800 442 182
+64 9 274 3340

sales@transnet.co.nz

www.transnet.co.nz



FOR POLYMERIC INSULATED CABLES UP TO 42 KV

Raychem CSTI/O terminations can be provided with TE BLMT mechanical shear bolt lugs to ensure a reliable connection for different conductor materials, shapes and types used in today's network. The preset shear torque of the bolts ensures that the correct contact pressure is always achieved. The specially designed contact surface on the inside of the lug breaks up any oxide layer and ensures reliable service over the entire service life of the termination. Different sizes of mechanical lugs with wide application ranges are available. They have been tested in accordance with IEC-61238-1 class A. The installation shear-head bolts can be ruptured manually by usage of ring spanner and or facilitated by the use of a cordless impact wrench (IT-1000-023).

ELECTRICAL STRESS CONTROL

Electrical stress control deflector is fully integrated within the silicone termination body. Conductive cone with an exactly defined geometrical design over the screen cut area provide excellent electrical stress control.

PRE-EXPANDED SILICONE TERMINATION BODY

The silicone termination body is delivered in a preexpanded condition on a spiral holdout system. Silicone materials with excellent mechanical properties allow high expansion forces and therefore guarantee a wide application range. Integrated stress control deflector and sealing mastic on the top end of the termination provide exceptional electrical performance. The termination body can be easily removed from the spiral

holdout with low release forces, particularly designed for termination applications.

PRODUCT FEATURES

- Easy to install spiral holdout
- Integrated sealing mastic
- Outstanding weathering, UV and Ozone Resistance
- Chemically resistant
- Resistant to fungi
- Excellent electrical properties, including good tracking resistance and high dielectric strength
- Electrical stress control of the screen cut area using integrated conductive geometrical stress cones
- Hydrophobic (water-repellent)
- Non-flammable
- Self-extinguishing
- Retains performance over wide temperature range ± 45 to $+150^{\circ}\text{C}$
- Excellent resistance to splitting and permanent set
- Mechanical shear bolt lug and compression lug to IEC 61238-1 can be supplied
- CENELEC HD 629.1.S2, requirements which include IEC, BS, VDE and other international specifications, IEEE-48
- Manufacturing site ISO 9001 & ISO 14001 qualified



Raychem
from TE Connectivity



Indoor	Cat No.		Voltage (kV)	Diameter Over Insulation (mm)		Diameter Over Sheath Max (mm)	Number of Cores	Size Range Al or Cu (mm ²)
	Indoor	Outdoor		Min	Max			
CSTI-3122-ML-1-13	CSTO-3122-ML-1-13		11	13.7	20.8	22	1	25-95
CSTI-3132-ML-4-13	CSTO-3132-ML-4-13			20.8	28.4	34		95-240
CSTI-3142-ML-6-17	CSTO-3142-ML-6-17			28.4	33.6	50		300-400
CSTI-3152-ML-7-17	CSTO-3152-ML-7-17			34.0	40.0	58		500-630
CSTI-5122-ML-1-13	CSTO-5122-ML-1-13		22	17.9	25.0	34	1	25-95
CSTI-5132-ML-4-13	CSTO-5132-ML-4-13			25.0	32.0	50		95-240
CSTI-5142-ML-6-17	CSTO-5142-ML-6-17			32.6	37.8	58		300-400
CSTI-5152-ML-7-17	CSTO-5152-ML-7-17			42.6	49.2	58		500-630
CSTI-6122-ML-1-13	CSTO-6122-ML-1-13		33	24.5	28.4	42	1	50-70
CSTI-6132-ML-4-13	CSTO-6132-ML-4-13			27.8	33.5	46		95-150
CSTI-6142-ML-6-17	CSTO-6142-ML-6-17			32.4	42.8	56		185-400
CSTI-6152-ML-7-17	CSTO-6152-ML-7-17			42.6	49.2	63		500-630
CSTI-6162-ML-8-21	CSTO-6162-ML-8-21			49.2	58.8	75		800-1000



WITH ATTACHED EARTH STICK

Ritz Temporary Earth Sets offer protection to Linemen from accidental livening and offer a direct path to earth for any current that should accidentally enter the work site. These temporary earth sets have 35mm² or 50mm² flexible Copper conductor and fully insulated hotsticks for safe and easy application. The sticks are permanently attached to the clamps, giving an even greater visual reference of the earthed zone. Easy to install, simply position the clamp and tighten onto the conductor using the attached hotstick.

These earths are a well known and extensively used design here in New Zealand.

Set includes:

- 3 x 3m leads attached to fully insulated line clamp hotsticks
- 1 x 9m lead from cluster to ground with ground clamp
- 1 x 1m lead from cluster to pole with ground clamp
- 1 x heavy duty storage bag
- 1 x 1m earth stake
- 1 x Acrylic cluster cover for easy fast inspection of connections
- clamp to bond pole metal work

FEATURES

- Reflector at the top of each stick for night time visual check
- Flexible Copper conductor with clear sheath for ease of visual inspections
- Factory test report supplied with every set
- Unique serial number for traceability
- Inspected and tested to IEC 61230 standard

ALSO AVAILABLE

- Longer 2 piece sticks
- 50mm² conductor for higher fault current applications



MAINTENANCE

Temporary grounding equipment must be properly maintained to keep it in good order and ready for use.

1. The grounding cable must be subject to an **annual test of conductive continuity**, including connectors and clamps, in order to check whether the ohm-resistance is within the maximum permissible values.
2. Prior to using the equipment, **check** if there are **broken wires or physical damage** on the cable, mainly closer to the connectors.
3. The connection between clamps and cables must be rigid and clean. **Clean the contact areas frequently.**
4. It is important to clean the insulating sticks and **check for fissures or other damage**, in addition to performing periodic insulation tests.
5. Equipment must be **handled, stored and transported as carefully as hot line tools**. Cables and clamps must be put on a canvas mat on the ground prior to connection in order to prevent them from suffering the effects of direct contact with the ground.
6. Equipment that has been subject to a short-circuit current **must not** be used again for grounding purposes.

WITH SNAP-ON CLAMP

Temporary earth sets with “snap on clamps” are available with a separate earth lead or with the earth looped into the set.

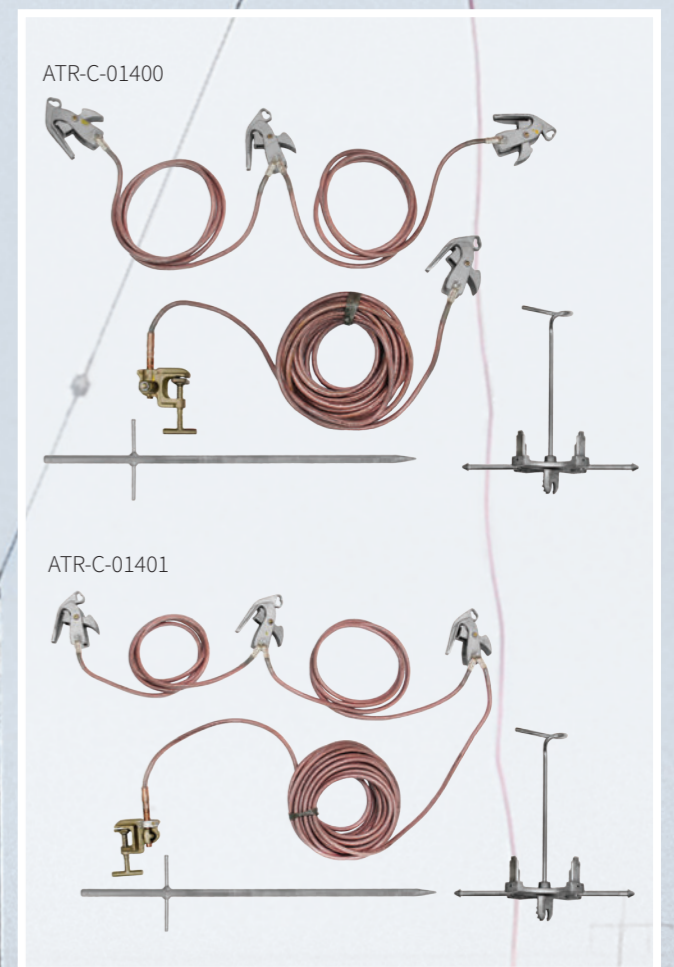
These spring loaded clamps make it extremely fast and easy to install the earths on overhead lines, the operator simply sets the preloaded jaw of each clamp and mounts them onto the application plate they are lifted above the conductor and pulled back down over it to snap into place.

These clamps are equally easy to remove, simply pull each clamp from the conductor with the clamp removal tool specifically designed for use with these clamps.

A three phase set with separate earth lead helps to reduce the amount of weight being lifted into the air while the looped shorting and earth set offers the convenience of everything already being connected (this is ideal for urban applications).

ACCESSORIES

- Application platform – to attach snap on clamps to overhead lines, comes with universal hotstick attachment
- Clamp removal tool – to remove snap on clamps from overhead lines, comes with universal hotstick attachment



Cat No.	Description
CAR/ST-NZ-HG14880	RITZ PORTABLE EARTH SET, 35MM ²
CAR/ST-NZ-HG14880-5	RITZ PORTABLE EARTH SET, 50MM ²
TN11-33KV/SET	RITZ PORTABLE EARTH SET, 35MM ² , 2 PIECE STICKS
ATR-C-01400	RITZ PORTABLE SNAP CLAMP EARTH SET WITH SEPARATE GROUND LEAD, 35MM ² CU
ATR-C-01401	RITZ PORTABLE SNAP CLAMP EARTH SET WITH COMBINED GROUND LEAD, 35MM ² CU



1000V RATED CUTTER & PLIER SET

ISO UTILITY KIT 1000V

WITH
HANDY
TOOL ROLL

ISOTOOLS... ▶ und sicher !



KIT CONTENTS

- 200mm Long Nose Plier
- 200mm High Leverage Diagonal Cutting Plier
- 200mm High Leverage Combination Plier
- 250mm Slip Jaw Pump Plier

#TNISO1KVKIT

18V MAKITA CORDLESS KIT

MAKITA 18V CORDLESS KIT

The only 18V Cordless Kit you'll ever need! Makita 18V tools have interchangeable batteries, meaning you can operate all these tools with just a single battery, to make it even better we've dropped two batteries into this kit. The sturdy carry bag is a safe and functional place to store and transport your 18V kit.

KIT CONTENTS:

- DHR243Z** 18V SDS Plus Cordless Brushless Combination Hammer, 3x multi-mode operation
 - DHP481** 18V 13mm Cordless Brushless Hammer Drill Driver, 125nm torque
 - DTW285XZ** 18V ½"Dr Cordless Brushless Impact Wrench, 280nm torque
 - DGA508Z** 18V 125mm Cordless Brushless Angle Grinder
 - DJR187Z** 18V Cordless Brushless Reciprocating Saw
 - DML805** 18V Cordless & Corded LED Floodlight
 - DML801** 14.4V - 18V Rechargeable LED Flashlight
 - B11841** 10mm SDS Plus Impact Drill Bit
 - B11891** 12mm SDS Plus Impact Drill Bit
 - B13390** 16mm SDS Plus Impact Drill Bit
 - D07870** 20mm SDS Plus Flat Chisel Bit
- PLUS Fast charger, 2x 5.0ah Li-ion batteries & kit bag

BONUS
FREE BATTERIES
WHEN PURCHASING
TWO OR MORE
KITS

\$2196⁰⁰
+GST

#MKDLX3056T

Makita



7 TOOLS
4 BITS
CHARGER
2 BATTERIES
KIT BAG

NEW! TRANSNET HOLE COVER



TNHC HOLE COVER

DESIGNED & MANUFACTURED
IN NEW ZEALAND

Temporary cover for post holes - two sizes
available!

Cat No.	Dimensions
TNHC12X10	1200x1000x13mm
TNHC12X12	1200x1000x13mm



SEW PERSONAL SAFETY VOLTAGE DETECTOR

The TN288SVD is designed to alert users that they are approaching live equipment where dangerous voltage is present. It detects AC voltages using its internal AC sensor plate, which picks up part of the radiated electric field in volts per metre (V/M). The electric field is amplified and processed by the internal circuitry - once the processed signal is above the threshold, the buzzer and LED are activated intermittently at a rate of 2 beeps/flashes per second.

An ultra low consumption product, the TN288SVD can be used for months without replacing the 9V battery. Its functionality can be verified by pressing both front panel buttons. Designed to be simple to use, It has no voltage selection or complicated controls, and only requires self-testing prior to use.

The TN288SVD consists of an internal pickup AC sensor plate, a test (oscillator) and diagnostic circuit, an adjustable threshold comparator, a sound annunciator (buzzer), a visual indicator (ultra-bright LED) and a 9V battery, all enclosed in a robust "beeper" style case.

style case.

The enclosure features a built-in clip enabling the unit to be attached to the user's outer garments or belt.

Note: In the presence of mixed voltages, it could become difficult to determine exactly which source has been detected or which source created the alert. Always treat all sources as LIVE.

FEATURES

- AC Voltage detection: 240V ~ 50kV
- Waterproof
- Easy-to-wear on body or belt
- Ultra-bright LED indication
- High pitch sound indication
- Self-test & diagnostic circuitry
- Friendly priority alert reporting
- High impact type casing
- Different alerting sound & light
- Meets EN 61326-1



- Dimensions: 114(L) × 67(W) × 27(D)mm
- Weight: Approx. 152g (battery included)
- Power supply: 9V(6F22) × 1

CAT NO: TN288SVD

Ph 0800 442 182
+64 9 274 3340

sales@transnet.co.nz

www.transnet.co.nz

Earth Installations Need GEM

Conforms to IEC 62561-7



TransNet New Zealand Ltd

Auckland

78 Cryers Road
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 Tonga

Ma'ufanga

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

TONGA

transnet@kalianet.to

ERICO Ground Enhancement Material (GEM) is the effective, maintenance free, permanent, easy to use, and environmentally sensitive solution to your toughest grounding problems.

GEM is a low-resistance, non-corrosive, carbon-based superior conductive material that improves grounding effectiveness, especially in areas of poor conductivity such as rocky ground, mountain tops and sandy soil. GEM is also the answer in situations where ground rods can't be driven or where limited land area makes adequate grounding difficult with conventional methods.

GEM contains Portland cement, which sets within 3 days and fully cures within 28 days, to become a highly conductive concrete that performs in all soil conditions irrespective of the presence of water. GEM maintains a constant level of superior performance once cured that will not diminish over the life of the grounding system.

FEATURES

- Dramatically reduces earth resistance and impedance measurements
- Maintains constant resistance for the life of the system once in its set form
- Performs in all soil conditions even during dry spells
- May reduce the size of the grounding system where conventional methods are unsatisfactory
- Fully sets within 3 days, fully cures within 28 days.
- Non-corrosive
- Reduces vandalism and theft since conductors are hard to remove from concrete
- Easy-to-handle 25 lb (11.3 kg) bags
- Requires one person to install
- Exceeds IEC® 62561-7 which sets the benchmark for corrosion, leaching, sulfur content, and other environmental regulations



**WILL NEVER
LEACH INTO
SURROUNDING
SOIL OR GROUND
WATER**



ERICO®

