

ISO 14001 www.inticert.com **HV JUICE**

ALLIED INSULATORS AIR BREAK SWITCH P. 5





11kV Custom Engineered Crucifix Kit PAGE 6-7

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STOP CORROSION IN ITS TRACKS PAGE 3

This Issue

Jun/Jul 2019

NEED A VISUAL AIR BREAK FOR SAFETY?

EEA DELEGATES VISIT

100% NEW PAGE 12

THE BEST 1000V VDE TOOLS FOR THE JOB



1000V VDE ADJUSTABLE WRENCH

All the 1000V VDE adjustable wrenches in this range have laser etched measuring scales for pre-adjustment and accurate measurements. High quality German made tools.

FEATURES

- Made from a combination of special steel, hardened & tempered
- Finished with dual layer insulated handles
- 1000V VDE, IEC 60900
- Made in Germany



Cat No.	Description	Jaw Opening
762-150	6" - 200MM ADJUSTABLE WRENCH	22MM
762-200	8" - 200MM ADJUSTABLE WRENCH	25MM
762-250	10" - 250MM ADJUSTABLE WRENCH	30MM
762-300	12" - 300MM ADJUSTABLE WRENCH	35MM

1000V VDE RATCHET WRENCH SET

FEATURES

- Ratchet wrenches with dual-layer insulated handles
- 1000V VDE, IEC 60900
- Supplied in plastic storage case with foam inlay
- Made in Germany SET CONTAINS
- 6 ratchet wrenches -10, 11, 12, 13, 14,17 mm



Cat No. Description 6PC RATCHET WRENCH SET 10 - 17MM 279017

1000V VDE PLIER WRENCH

Pliers and a wrench set in a single tool. Excellent for gripping, holding, bending, and turning workpieces. This wrench has been manufactured with a high degree of reliability

FEATURES

- Made from Chrome vanadium electric steel, forged and oilhardened
- · Finished with dual-layer insulated handles
- 1000V VDE, IEC 60900
- Parallel smooth jaw 17 • adjustment positions
- Jaw cam action gives 10-1 ratio for stronger gripping power

Capacity

UP TO 46MM

Made in Germany



1000V VDE 1/2" DRIVE **16 PIECE SOCKET SET**

250

FEATURES

Cat No.

KP8607250

- · Ratchet and accessories finished with dual-layer insulation
- 1 reversible ratchet, quick release 260mm
- 1 T-handle 200mm
- 8 sockets, 10, 13, 14, • 17, 19, 22, 24, 27mm
- 2 extension bars, 125 and 250mm
- 3 inhex sockets, 5, 6, 8mm
- 1 screwdriver 3.5mm x 100mm
- Supplied in plastic storage case with foam inlay
- 1000V VDE, IEC 60900
- Made in Germany



Cat No. TN251600

Description 1/2" DRIVE 16PC METRIC 1000V VDE SOCKET SET 10 - 27MM

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Туре

STOP CORROSION IN ITS TRACKS

CORROSIONX IS THE ONLY MILITARY CERTIFIED COMPOUND OF ITS KIND AVAILABLE TO THE PUBLIC. A SUPERB CORROSION PREVENTION COMPOUND, LUBRICANT, AND PENETRANT ROLLED INTO ONE.

FEATURES

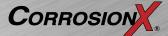
- Lubricates under heavy loads and high temperatures
- Creates a self-healing, dielectric film
- Completely shuts down electrolysis between dissimilar metals
- Penetrates rust & corrosion faster & further than other penetrates
- Frees parts, bearings and valves that are seized
- Electronically safe

- CorrosionX actually kills existing rust
 and corrosion
 - Will not short sensitive circuits or interfere with electrical connections
- Cleans contact points and improves connectivity
- Prevents and eliminates battery terminal corrosion
- Often restores electronic gear exposed to moisture

CorrosionX XD (far left) versus competitors after 120 hours in salt spray test







CorrosionX is the world's best multi-functional ultrathin film lubricant, penetrant and corrosion inhibitor, and can be safely used to protect and restore electronics.

The VOC of CorrosionX is ZERO. Other products in the range also offer the absolute minimal environmental impact being gentler on you, your equipment and your world.





For those really tough jobs, like those involving direct exposure to rain, snow or seawater, use CorrosionX Heavy Duty, which forms a dripless, non-hardening, self-healing film that stubbornly resists removal – even by complete immersion in salt-water.

CORROSION XD EXTENDED DUTY

CorrosionX Extended Duty combines the best of CorrosionX and CorrosionX HD. Still a fast penetrant and thinly applied, it resists displacement or removal by splash or spray. It leaves a non-hardening, resilient coating that provides maximum protection against moisture intrusion.

Ph 0800 442 182 +64 9 274 3340

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CORROSIONX

Available in aerosol, trigger spray, and bulk quantities





CORROSIONX HD

Available in aerosol, trigger spray, and bulk quantities

> KILLS RUST & CORROSIO SAFE ON ELECTRONIC

CORROSIONX XD

Available in trigger spray and bulk quantities

Corrosion

HAUFF TECHNIK - WATERPROOFING SERVICE ENTRIES TO BUILDINGS

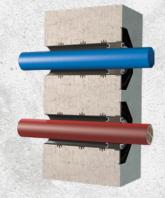


New Projects













Protect your asset and avoid disaster by planning ahead using Hauff-Technik solutions for your new project. Hauff-Technik solutions start with a waterproof tested entry using a variety of different cast in wall or floor sleeves. Services including cable and pipes are then mechanically sealed using standard press seals inside the sleeve.



View the range of Hauff-Technik products on our website

Retrofit for Refurbishment



If it's already too late then Hauff-Technik can provide retrofit solutions that include split wall flanges with standard or custom made press seals for those unique situations.



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ALLIED INSULATORS AIR BREAK SWITCH





Why You Need THIS Switch!

- 330 mm open contact clearance distance on 11 kV ABS as per MAD clearance outlined in EEA SM-EI Part 3 Rules for work on equipment. Section 7.703
- Modular Design offers multiple configurations & mounting
- Unassembled kits for remote access areas with 30 minute build time
- Pre-assembled kits boast installation time of less than 15mins
- Customise creepage distance for individual network requirements (porcelain only)
- Hook stick operating handle can be positioned at the height of your choice for easier operation and safety in high wind situations



Allied Insulators



Self-aligning Spring Loaded Contact Blades & Arcing Horn Blades, for efficient and precise contact operation Interlock Bolt & Padlockable Handle Make switch operation safe and intentional, and ensure field staff remain safe



Wide Clearance 330mm open contact clearance distance on 11kV ABS

Designed. Manufactured. Tested. Proven. In the UK for more than 40 years...

Product Details & Functionality

Range can be supplied with the following options:

- Silicon Rubber Insulators as standard or Porcelain Insulators if preferred
- High Creepage Insulators for desert / coastal conditions
- Available for 11kV, 22kV and 33kV applications
- Plain Break Arcing Horns
- Load Break Interrupter Heads for increased rating
- Independent Manual closing mechanisms improve capacity
- High Level Hook Stick operation as standard, ground operated handle request
- Two or Three Stage Interlock operations are available to meet the customer's operational safety rules



 Manufactured and tested in accordance with IEC 30265-1, IEC 60694, IEC 62271, BS EN 60129 and ENATS 41-36 at Allied Insulators' ISO 9001 approved UK factory. All products are available in voltages from 11 kV to 36 kV and ratings up to 630 A.

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COMPLETE CONNECTIVITY FROM TE

CUSTOM SOLUTIONS FOR INDIVIDUAL CUSTOMERS



Raychem cable clamps have a patented design which optimises clamping force at both the attachment point, and the cable by securing each clamp half separately. Cables can be aligned and located in the bottom half of the clamp prior to final tightening.



RAYCHEM CABLE CLAMPS

FEATURES

- Integral stainless steel clamping plates for consistent clamping pressure
- Range taking elastomeric inserts to minimise stock holdings
- Range accepts wide variety of cable diameters
- Accommodate round, oval or "triround" cable profiles
- Bottom half of clamps can be mounted, prior to cable fitment
- Impact resistant, Halogen free, UV Stabilised, self extinguishing materials
- Easy product identification
- Can be used as a single cable clamp or stacked
- · Can be mounted using centre bolt or 2 bolts at extremities
- Fit standard 41mm X 41mm Unistrut (41mm X 25mm Unistrut can be accommodated*)
- · Designed and independently tested to meet all requirements of IEC61914

MV STAND OFF INSULATORS

FEATURES

- High strength FRP core
- Standard stainless steel fittings
- Impenetrable interfacial sealing
- Pollution resistant EVA HV insulation housing in service since the 1970's.
- Alternating shed configuration for optimal pollution flashover performance

BENEFITS

- Excellent performance in polluted environments
- Lightweight easy installation and reduced transport costs
- High corrosion resistance
- Excellent resistance to vandalism
- Shatterproof design breakages eliminated during installation

COMPREHENSIVE RANGE OF RAYCHEM **TERMINATIONS TO CHOOSE FROM**

CUSTOM **DESIGN &** ENGINEERING FOR CUSTOM SOLUTIONS

BRASS EARTH STUDS

and safely.

- Easily installed M12 thread Made from solid brass
- Attach when installing new terminations
- Can be retro fitted to existing terminations

STATION CLASS **ARRESTORS***

OCP2 Station Class arrestors are widely used in substation applications to protect equipment from over voltages. Surge Arrestors sacrifice themselves to protect the asset they are installed with.

BENEFITS

- Tested in accordance with IEC60099-4
 - Superior protection margins
 - prevent moisture ingress
 - Low residual voltages

 - Safe non-shattering short circuit behavior to higher current levels

* Customise by changing surge arrestors to suit your network. HDA Class 1 version also available, contact us for more information.

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All Specials and Products featured in TRANSNET JUICE are available from all good electrical wholesalers.

TALK TO TE NOW!

The perfect piece of equipment to enable staff to apply temporary earths to cable terminations easily

FEATURES

Easily installed by glovers ready for a shutdown

- · Direct molded housing to
- High-energy handling
- Superior TOV performance

Maintenance free





- Hydrophobic silicone housing: (Tracking and erosion resistant)
- Excellent cantilever and tensile performance
- Excellent mechanical, vibration and impact withstand capability
- Quality design and manufacturing, ISO 9001 and 14001 compliant

TransNet 】

SPECIALISED TEST EQUIPMENT



MEASURING FUNCTIONS

- Resistance measurement with adjustable test current (100 mA ... 100 A);
- Voltage drop measurement.
- Technical data
- Dimensions (w x h x l): 410 X 175 X 370 mm
- Weight (with batteries, without accessories): 11.8 kg

APPLICATIONS

- Electrical Power Systems
- Power Plants
- Distribution
- Connections / Bondings
- Industrial Systems
- Switchboards / Controlgears
- Special Installations / Locations
- Railway Systems

STANDARDS

- ASTM B 539
- NMEA AB 4-2009
- El Real Decreto 223/2008

5m, 25mm² (100A) test leads with heavy duty clamps

- IEEE C37.09-2007
- IEC 62271-1
- IEC 62271-100



MI3252 MICROOHM 100A CONTINUITY TESTER

The MI 3252 MicroOhm 100A is a portable low resistance ohmmeter used to measure low contact resistances of circuit breakers, switches and busbar joints using test current from 100 mA to 100 A with very high accuracy of results (0.25%). This instrument can be powered from either mains supply or internal battery. PC SW HVLink PRO supplied as a standard accessory enables downloading, analysis and export of test results and printing of test reports with ease.

KEY FEATURES

- Accurate: 1 n Ω best resolution with 0.25% accuracy.
- Bar graph: on screen resistance bar graph.
- Battery powered: the instrument enables measurements with 100 A for up to 10 minutes when powered from internal battery only.
- Safe: sustain external voltages in case of wrong connection, protection level (CAT IV/50 V); automatically detects continuity in current circuit.
- Single and continuous measuring modes.
- Custom limits: the limits can be set for PASS or FAIL evaluation of test result.
- Portable: rugged carrying case with a handle and lightweight design (less than 12 kg) enable easy moving the instrument between sites.
- High protection degree: IP64 (case closed).
- Built-in memory enables storage of up to 1000 test results.
- Downloadable: downloads test results via RS232 or USB cable directly to the PC with the help of the HVLink PRO software.
- Two standard 5m, 25mm² (100A) test leads with heavy duty clamps (60mm jaw)

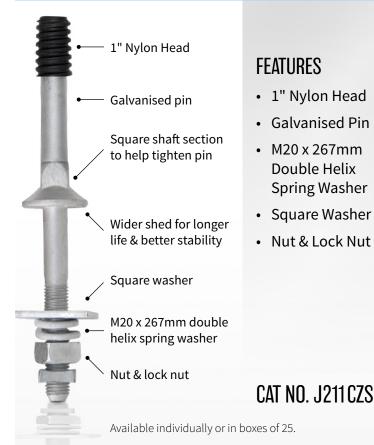


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THE BEST ACCESSORIES GO UNNOTICED



INSULATOR PIN FOR 1130W



LV MULTI-PURPOSE CONNECTOR BLOCKS

XK2 connector blocks are designed for a wide variety of electrical systems. They are a perfect upgrade for busbars, traditional power distribution blocks and strip connections. The unique socket design provides customers safe and reliable installation.

base-plate

Fit for IFC 60947-7-1

FEATURES

- Provides hundreds of input/output combinations with internal and external parallel connection methods, giving wiring professionals remarkable flexibility
- Low-cost and reliable contact point design
- Supports 10mm²–300mm² in and 1mm²–50mm² out

Cat No.	Voltage (V)	Amp Rating (A)	Input Cable Size	Output Cable Size & Quantity
TNXK235/10X4	690	125	10-35 mm²	4 X 2.5-10 mm ²
TNXK235/4X9	690	125	10-35 mm²	9 X 1-4 mm ²
TNXK250/10X6	690	150	16-50 mm²	6 X 2.5-10 mm ²
TNXK270/10X8	690	192	25-70 mm²	8 X 2.5-10 mm ²
TNXK270/16X6	690	192	25-70 mm²	6 X 4-16 mm ²
TNXK295/25X4	690	232	25-95 mm²	4 X 6-25 mm ²
TNXK2120/16X8	690	309	35-120 mm²	8 X 4-16 mm ²
TNXK2185/35X8	690	353	70-185 mm²	8 X 10-35 mm ²

HUNDREDS OF INPUT/ OUTPUT COMBINATIONS



INSULATOR

PIN FOR

1130W

11 KV PIN

INSI II ATOR

Use with 0-0361400-0 Porcelain 11kV Pin Insulator.

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• Can be mounted on TN 35 DIN rail or on

Passed UL 94 V-0 flammability test

IEC 60529 IP20 rated safety protection

IEC standard colour code (blue, red,

yellow, green, and yellow-green)

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EV CHARGERS - SHARING THE LOAD

The EV revolution is upon us and we need to ensure the increased demand for electricity doesn't impact the existing electricity network too much! How, you might ask?

ENCOURAGE LOWER CHARGE CURRENT FOR LONGER

- Delayed charging schedules can be set moving demand away from peak times
- The world's smallest and smartest charging stations for home or work
- Longer charge sessions at lower charge power have less impact on supply
- Increase to faster charge speeds only when you need it
- Auto Learning Charging (ALC) enables the charging station to automatically tune itself to the user's needs, creating an efficient and simple EV charging solution (available August)
- Optional power boost sensor enables the charging station to monitor the total house load
- myWallbox app allows complete control and monitoring of your charging station





This installation of Wallbox Commanders is designed to manage demand from the network.

Make sure you take the time to visit the TransNet stand at EEA 2019 to find out all the latest info on EV charging and how to mitigate the risk on your network.



CHOOSE TECHNOLOGY THAT MAKES BEST USE OF F SIIPPLY AVAII ARI F



- Flexible systems that work within the constraints of the existing supply
- Power sharing distributes the available charge current to all cars connected to the same phase. All Wallbox models are set up for power sharing
- Dynamic phase balancing Wallbox Commander adds to power sharing by internally switching the leading phase to the least loaded phase at the start of charging
- Combine power sharing with dynamic phase balancing for the most efficient solution in a multi EV charging network
- Add the powerful myWallbox cloud-based software business solution to create the most complete charging station installation

USE A SMARTER CHARGER

Wallbox chargers have all of the functionality above and more.

- Variable Charge Current
- **Delayed Charging Scheduling**
- Auto Learning Charging
- **Power Boost Sensor**
- **Power Sharing**
- **Dynamic Phase Balancing**
- myWallbox Cloud-Based Software



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INLINE DISCONNECT SWITCH



NEED A VISUAL BREAK FOR SAFETY?

Inline Switches from Aluma-Form Offer The Perfect Solution

0

Great for use on all New Zealand MV networks, this unit is an excellent addition for applications where a visual break is necessary.

Whether it's a permanent or temporary installation, the Aluma-Form Inline Disconnect Switch is the light weight, robust and reliable solution.

FEATURES

- 15-35kV, 900A
- Polymer Insulator
- Silver plated cooper blades
- Marine grade 316 Stainless Steel
- Integral 90° blade stop
- Silver plated brass contact and hinge

VITIVE LOST 01/3313018 18 W 3 850 WITVE LOST RAWK 32 FA BIT 580 Store WW. COAL 600 FV 2007 10 Store 600 - 10 - 10 - 10 - 10

- Tin plated copper terminals
- Pull to Open / Pull to Close operation





This switch is assembled using the highest quality components – designed and manufactured in the USA and suitable for 15-35kV & 900Amps.

FEATURES 320MM GAP

CLEARANCE

A complete inline kit is also available, contact us for more information.



Product # HDS900A-IN35S-200-NML



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EEA Delegates To Visit TransNet HQ

See Our Fully Functioning Micro Grid



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Ma'ufanga

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TONGA

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With a fully functioning 150kW Solar Farm, 30kW/130kWh Smart Storage System, energy efficient appliances/fittings, and some very clever software, TransNet has managed to generate, store and efficiently distribute enough energy to run the entire facility for most of the day.

Spaces are limited, so if you haven't already, be sure to register your interest with the conference organisers so you can secure your seat on the bus. Looking forward to showing you around our facility.

EEA CONFERENCE | 26TH-27TH JUNE | SKYCITY CONVENTION CENTRE

You'll be able to find TransNet and our supply partners TE Connectivity positioned on the same stands as the last conference. This year though, we'll have another supply partner – Ormazabal - at the trade exhibition with us. They'll be just across the walkway from us so if you're interested in substation solutions make sure you come and see what they have to offer.



TRANSNET SITE VISIT TUESDAY 25TH JUNE 9AM-NOON

HOW TO REGISTER

Contact the EEA conference organisers and register now, spaces are limited. EEA Conference & Events: 04 384 1511 | eea2019@confer.co.nz

WHAT TO EXPECT

We will have a presentation outlining the project aim, hardware chosen, how it was implemented and what we've learned, followed by morning tea and time to look around then a tour of the facility including the Micro Grid.

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