



Alvern

Cables (PTY) Ltd



ACCESSORIES CATALOGUE

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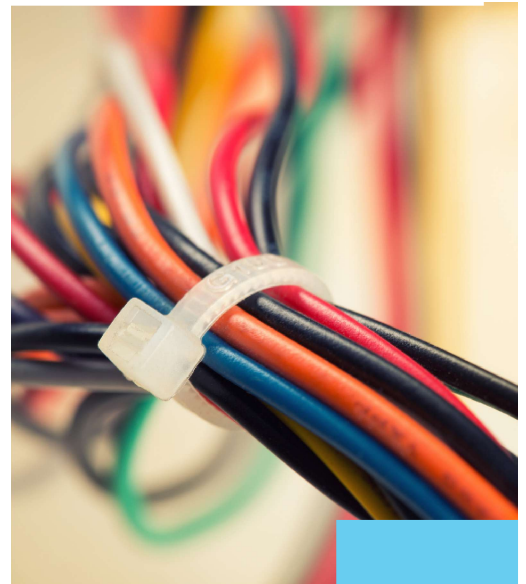
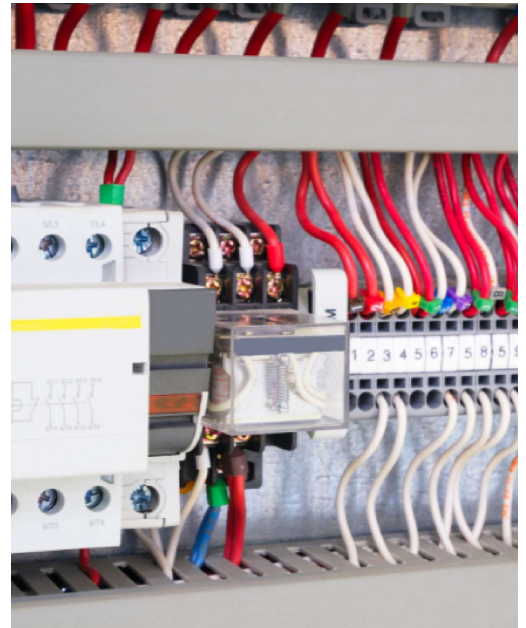
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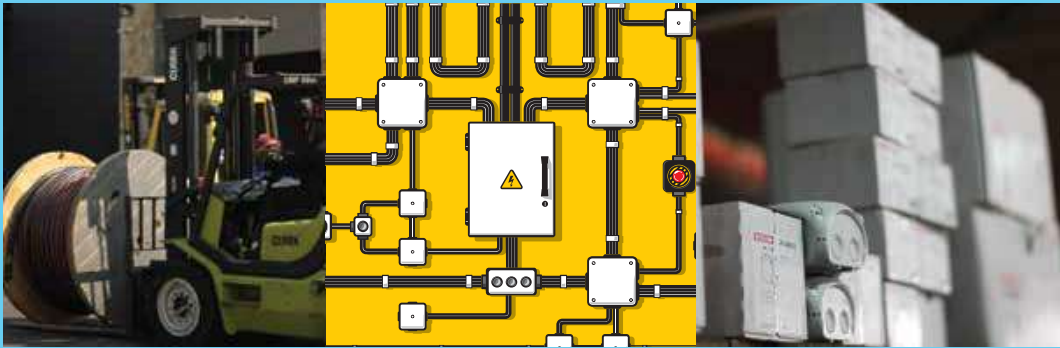
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SOLUTIONS



CABLE JUNCTION BOXES HEENSEL

ECO RANGE

Cable entry via metric knockouts

Applications

Good quality Eco range of junction boxes for standard applications

System features

- From 1.5 up to 25 mm²
- Degree of protection IP 55 - 65
- Cable/Conduit entry via metric knockouts or box walls without knockouts
- Terminals on request

	WITHOUT TERMINALS	DIMENSIONS
	DM 9020	88 x 88 x 53
	DM 9040	98 x 98 x 61
	DM 8020	88 x 88 x 53
	DM 8040	98 x 98 x 61
	KM 8060	119 x 139 x 70
	KM 8250	160 x 200 x 98
	KM 8500	310 x 210 x 117



DK Cable Junction Boxes

Cable entry via integrated elastic membranes or metric knockouts.

Applications

For indoor installation in industrial and commercial buildings

System features

- Cable entry via integrated elastic membranes up to IP 66, alternatively, a cable gland can be used after removing the elastic membrane
- Multi-level knockouts for cable glands in different sizes
- Degree of protection: IP 66
- Material: polypropylene or polycarbonate
- Burning behaviour: Glow wire test according to IEC 60695-2-11: 750 C°, flame-retardant, self-extinguishing
- Colour: grey, RAL 7035



	Design	Type
	0,75-2,5 mm ²	DK 0202 G 93x93x62
		DK 0402 G 104x104x70
	1,5-4 mm ²	DK 0404 G 104x104x70
		DK 0604 G 130x130x77
	2,5-6 mm ²	DK 0606 G 130x130x77
		DK 1006 G 150x150x77
	4-10 mm ²	DK 1010 G 180x180x77
		DK 1610 G 210x155x92
	10-16 mm ²	DK 1616 G 210x155x92
		DK 2525 G 255x205x112
16-35 mm ²	DK 3535 G 295x255x122	
	DK 5054 G 355x255x122	
16-50 mm ²	DK 5055 G 355x255x122	
		DK 0200 G 83x93x62
DK 0400 G 104x104x77		
DK 0600 G 130x130x77		
DK 1000 G 180x180x77		
DK 1600 G 210x155x92		
DK 2500 G 255x205x112		
DK 3500 G 295x255x122		
DK 5000 G 355x255x122		
without terminals		DK 0200 G 83x93x62
		DK 0400 G 104x104x77

CABLE JUNCTION BOXES HENSEL

FK Cable Junction Boxes

Cable entry via metric knockouts and grommets

Applications

For buildings with public traffic, to guarantee the emergency power supply in the event of a fire

System features

- Intrinsic fireresistance E30-E90 according to DIN 4102, Part 12 (German standard) together with function-retaining cables
- Insulation integrity PH120 according to BS EN 50200 in combination with insulation retaining cables
- Included screw anchors, connecting terminal made from ceramic with resistance to high temperatures E30 - E90 and cable entries as standard
- Multi-level knockouts for cable glands indifferent sizes
- Material: PC-GFS polycarbonate
- Colour: Orange RAL 2003



Design	Type
1,5-2,5 mm ²	FK 0402 93x93x62
1,5-4 mm ²	FK 0404 104x104x70
1,5-6 mm ²	FK 0604 130x130x77
1,5-6 mm ²	FK 0606 130x130x77
1,5-10 mm ²	FK 1610 210x155x92
1,5-16 mm ²	FK 1616 210x155x92
1,5-6 mm ²	FK 1606 210x155x92
1,5-2,5 mm ²	FK 1608 210x155x92

KF Cable Junction Boxes

Cable entry via metric knockouts.

Applications

Weatherproof, for unprotected outdoor installation in harsh environment and offshore applications

System features

- VDE approved, DNV GL - Certificate-No.: TAE00000EE, Russian Maritime Register of Shipping, Documentation-No.250-A-1180-108795
- Degree of protection IP66/ IP 67 / IP 69 with cable glands, temporary submersion up to 1 meter, max. 15 minutes
- Halogen-free: low toxicity, low fume development
- Weatherproof: UV resistant, rainproof, temperature resistant
- Material: PC-GFS polycarbonate,
- Burning behaviour: glow wire test according to IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- Colour: grey, RAL 7035 or black, RAL 9011



Specification	Design	Type Grey	Type Black
	0,75-2,5 mm ²	KF 0202 G 93x93x62	KF 0202 B 93x93x62
		KF 0402 G 104x104x70	KF 0402 B 104x104x70
	1,5-4 mm ²	KF 0404 G 104x104x70	KF 0404 B 104x104x70
		KF 0604 G 130x130x77	KF 0604 B 130x130x77
	2,5-6 mm ²	KF 0606 G 130x130x77	KF 0606 B 130x130x77
		KF 1006 G 180x130x77	KF 1006 B 180x130x77
	4-10 mm ²	KF 1010 G 180x130x77	KF 1010 B 180x130x77
		KF 1610 G 210x155x92	KF 1610 B 210x155x92
	6-16 mm ²	KF 1616 G 210x155x92	KF 1616 B 210x155x92
		KF 2525 G 255x255x112	KF 2525 B 255x255x112
10-25 mm ²	KF 3535 G 295x255x122	KF 3535 B 295x255x122	
	KF 5050 G 355x255x122	KF 5050 B 355x255x122	
without terminals		KF 0200 G 93x93x62	KF 0200 B 93x93x62
		KF 0400 G 104x104x77	KF 0400 B 104x104x77
		KF 0600 G 130x130x77	KF 0600 B 130x130x77
		KF 1000 G 180x130x77	KF 1000 B 180x130x77
		KF 1600 G 210x155x92	KF 1600 B 210x155x92
		KF 2500 G 255x255x112	KF 2500 B 255x255x112
		KF 3500 G 295x255x122	KF 3500 B 295x255x122
		KF 5000 G 355x255x122	KF 5000 B 355x255x122

CABLE JUNCTION BOXES HENSEL

WP Cable Junction Boxes

Cable entry via metric knockouts

Applications

Waterproof, for encapsulation

System features

- Degree of protection IP 68, submersion up to 20 meter, 168 hours
- The amount of sealing compound always fits to the product - never too much or too little material in the processing.
- Measurement and re-installation: The lid can be removed to measure electrical voltage. In case of re-installation the sealing compound can be removed easily.
- Material: PC-GFS polycarbonate
- Burning behaviour: Glow wire test according to IEC 60695-2-11: 960 °C, flame-retardant, self-extinguishing
- Colour: Grey, RAL 7035 or Black, RAL 9011



Design	Type
	0,75-2,5 mm ² WP 0202 G 93x93x62
	WP 0402 G 104x104x70
	WP 0604 G 130x130x77
	1,5-4 mm ² WP 0606 G 130x130x77
	WP 1006 G 180x130x77
	4-10 mm ² WP 1010 G 180x130x77
	0,75-2,5 mm ² WP 0202 B 93x93x62
	WP 0402 B 104x104x70
	WP 0604 B 130x130x77
	1,5-4 mm ² WP 0606 B 130x130x77
	WP 1006 B 180x130x77
	4-10 mm ² WP 1010 B 180x130x77

DISTRIBUTION BOXES HENSEL

KV Distribution Boxes

Circuit Breaker Boxes

Applications

KV small-type distribution boards are big in the safe and economical power supply in buildings and commercial and industrial applications. Close to working places. Safe through using highest material quality. Conforming to standards with Hensel expertise.

System features

- Small-type distribution board up to IP 65
- For DIN-rail mounted devices up to 63 A according to DIN 43 871
- Operation and access by unskilled persons.
- In accordance with DIN EN 60 439-3



Design	Type		
Modules (1 mod = 18 mm)			 KV metric
3 modules 1-row 3 mods each		KV 9103	KV 7103
4.5 modules 1-row 4.5 mods each		KV 9104	KV 7104
6 modules 1-row 6 mods each		KV 9106	KV 7106
9 modules 1-row 9 mods each		KV 9109	KV 7109
12 modules 1-row 12 mods each		KV 9112	KV 9112 M
18 modules 1-row 18 mods each		KV 9118	KV 9118 M
24 modules 2-row 12 mods each		KV 9224	KV 9224 M
36 modules 2-row 18 mods each	KV 2536	KV 9236	KV 9236 M
36 modules 3-row 12 mods each		KV 9336	KV 9336 M
48 modules 4-row 12 mods each		KV 9448	KV 9448 M
54 modules 3-row 18 mods each		KV 9354	KV 9354 M

MI POWER ENCLOSURES

Combinable system for the assembly of power switchgear and control gear assemblies (PSC) up to 630 A, According to IEC 61 439-2

Applications

Power distribution board up to 630 A as power switchgear and control gear assembly (PSC)

System features

- Degree of protection IP 65
- Protection class II
- EMC compliant busbar system
- Certified by ASTA
- Suitable for indoor installation and outdoor installation, protected against weather influences
- Pre-assembled enclosures with standardised kits up to 630 A
- Proven in commercial buildings in rough industrial atmospheres and difficult environments
- Safe even in extreme environments such as dust, dirt, humidity and in harsh industrial environments



Empty enclosures - transparent or opaque lids

 <p>MI 0101 built-in dimensions 275x125x146 mm</p>	 <p>MI 0200 built-in dimensions 275x275x146 mm</p>	 <p>MI 0201 built-in dimensions 275x275x146 mm</p>	 <p>MI 0211 built-in dimensions 275x275x191 mm</p>
 <p>MI 0220 built-in dimensions 275x275x115 mm hinged lid</p>	 <p>MI 0300 built-in dimensions 275x425x146 mm</p>	 <p>MI 0301 built-in dimensions 275x425x146 mm</p>	 <p>MI 0400 built-in dimensions 275x575x146 mm</p>
 <p>MI 0401 built-in dimensions 275x575x146 mm</p>	 <p>MI 0410 built-in dimensions 275x575x191 mm</p>	 <p>MI 0601 built-in dimensions 575x425x146 mm</p>	 <p>MI 0800 built-in dimensions 575x575x146 mm</p>
 <p>MI 0801 built-in dimensions 575x575x146 mm</p>	 <p>MI 9210 built-in dimensions 275x275x191 mm, hinged lid</p>	 <p>MI 9400 built-in dimensions 275x575x146 mm, hinged lid</p>	 <p>MI 6255 400 A built-in dimensions 300x300x170 mm,</p>

TAPES

PREMIUM 37 - Color Coding

A 7mil professional grade available in nine colors for color coding with an excellent elasticity and insulating properties. High resistance against abrasion, water, oil, alkalis, acids and corrosive chemicals. Use for quick identification of electrical circuits, containers and conduit systems as well as primary insulation for splices at not more than 600V.

Temperature range: -10°C to 105°C | 14°F to 221°F

Adhesion Level:	High (>2.2 N/cm)
Application:	Colour coding
Colours:	Red, Blue, Green, Yellow, White, Brown, Grey
Market:	Contractor/Industrial Utilities Telecom OEM
Performance Level:	Professional Grade
Thickness:	7mil (0,18mm)



N-15 - General Purpose

A 7 mil vinyl electrical tape with superior quality and mechanical resistance. Suitable for reparation of outer jackets of power cables and other applications where higher abrasion resistance is required. N-15 is also highly conformable and with a good adhesion level. A balanced combination of high quality rubber-adhesive systems on special vinyl film provides an excellent performance and durability. Meets the directives 2000/53/EC and RoHS 2011/65/EU. Contains no lead, cadmium, mercury, chromium (VI), PBB or PBDE. Meets EN 60454-3-1.

Temperature range: up to 105°C | 221°F

Adhesion Level:	Extreme (>2.8 N/cm)
Application:	Jacketing Repair Color Coding
Colours:	Black
Market:	Contractor/Industrial Telecom
Performance Level:	General Purpose
Thickness:	7mil (0,18mm)



Slipknot Platinum 7.0 - Excellent Elasticity | Professional Grade

A 7mil premium vinyl electrical tape included in our new Slipknot Vinyl series. Specially designed for professional use with excellent elasticity even in cold weather applications. Primary insulation for splices up to 600V, protective outer jacket over splices and for all low temperature applications.

Temperature range: -18°C to 105°C | 0°F to 221°F

Adhesion Level:	High (>2.2 N/cm)
Application:	Jacketing Repair Extreme Weather
Colours:	Black
Market:	Contractor/Industrial Telecom OEM
Performance Level:	Professional Grade
Thickness:	7mil (0,18mm)



TAPES

W963 Plysafe - HV & LV Rubber Tape With Liner

A 30 mil EPR, self-bonding, high voltage tape for insulating and jacketing splices through 69kV. W963 amalgamates quickly, yielding a void-free, electrically stable build-up and it's ideal for waterproofing.

Temperature range:

Continuous: 90°C | 194 °F

Overload: 130 °C | 266 °F

Application:	Insulation Low Voltage Insulation High Voltage
Liner:	Linered
Tack Level:	Contractor/Industrial Utilities



Plyfill - Electrical Filler Insulating Mastic

A self-amalgamating low voltage insulating mastic, designed for quick void-free insulation build-up. Easily molded by hand.

Temperature range:

Continuous: 90°C | 194 °F

Overload: 130°C | 266 °F

Application:	Insulation Build-Up
Market:	Contractor/Industrial Utilities Mining OEM
Tack Level:	Good Tack



77 Plyglass - Glass Cloth Tape

A 7 mil woven glass fabric tape with a thermosetting rubber based adhesive used for protecting and insulating high temperature connections (130°C/266°F), such as motor leads and transformed windings.

High tensile strength for splice reinforcement. Excellent tear and abrasion resistance.

Temperature range: Up to 130°C | Up to 266°F

Available in: 13MM or 19MM

Application:	High Temperature Resistance
Market:	Contractor/Industrial Utilities Telecom OEM



TAPES

Scotch® 1710 - PVC Electrical Tape

Stock No.	Description	Thickness	Size
UE555571343	Black PVC Electrical tape.	0.18mm	18mm x 20m
UE555571350	Yellow PVC Electrical tape.	0.18mm	18mm x 20m
UE555571368	Red PVC Electrical tape.	0.18mm	18mm x 20m
UE555571376	White PVC Electrical tape.	0.18mm	18mm x 20m
UE555571384	Green PVC Electrical tape.	0.18mm	18mm x 20m
UE555571392	Blue PVC Electrical tape.	0.18mm	18mm x 20m



Features

- Good quality general use polyvinyl chloride (PVC) tape.
- High dielectric strength, is conformable and provides very good mechanical protection with minimum bulk.
- Flame retardant; SANS 122 compliant - SABS Tested.
- Excellent resistance to abrasion, moisture, alkalis, acid, UV light and varying weather conditions.
- Suitable for voltages of up to 600V and continuous operating temperatures of 80°C.
- Available in six colours.

Applications

- Economical SABS tested specification grade use tape.
- Protective jacketing, harnessing and bundling for cables.

Scotch® Super 33+ - High Quality PVC Tape

Stock No.	Description	Thickness	Size
80610138911	Black Premium grade all weather vinyl insulation tape. Suitable for high and low temperature applications.	0.178mm	19mm x 20m



Features

- High quality premium polyvinyl chloride (PVC) tape.
- Very high dielectric strength and highly conformable.
- It is UL 50 listed and marked per UL Standard 510 as "Flame Retardant, Cold and Sunlight Resistant". Conforms to BS3924 and EU RoHS Compliant.
- SANS 122 compliant and SABS Tested. Certified as a VDE Type 5 PVC tape.
- Highly conformable, super stretchy in all weather applications, resists UV rays, abrasion, corrosion, alkalis and acids.
- Suitable for voltages of up to 1000V.
- Maximum operating temperature of 105°C as per CSA - C22.2 No. 197-M1983.
- Available in Black.

Applications

- High quality tape for use in industrial and mining environments.
- Effective primary insulation of up to 1000V
- Effective as a protective jacketing against moisture, UV, abrasion, corrosion, alkali and acids.

Scotch® 35 - High Quality PVC Tape Multi Colour

Stock No.	Description	Thickness	Size
80014000550	White Fade resistant tape.	0.178mm	19mm x 20m
80014000519	Red Fade resistant tape.	0.178mm	19mm x 20m
80014000543	Yellow Fade resistant tape.	0.178mm	19mm x 20m
80014000584	Green Fade resistant tape.	0.178mm	19mm x 20m
80014000527	Blue Fade resistant tape.	0.178mm	19mm x 20m



Features

- High quality premium polyvinyl chloride (PVC) colour-coding fade-resistant tape.
- Very high dielectric strength, highly conformable super stretchy in all weather applications; resists UV rays, abrasion, corrosion, alkali and acids.
- Flame retardant and has low smoke emission; SANS 122 compliant - SABS Tested, Conforms to BS3924 and UL510.
- Suitable for voltages of up to 1000V.
- Maximum operating temperature of 105°C as per CSA - C22.2 No. 197-M1983..
- Available in nine colours.

Applications

- Suitable for industrial, municipal and mining environments.
- Primary insulation for splices up to 1000V, protective jacketing.
- Excellent for us in phase identification and marking, harnessing, colour coding of motor leads, piping systems and marking safety areas.

TAPES

Scotch® 23 - Self Fusing Insulation Tape

Stock No.	Description	Thickness	Size
H0001724667	Self-amalgamating EPR (Ethylene Propylene Rubber) based high voltage joining tape. For joints up to 69kV.	0.76mm	19mm x 9.15m



Features

- Physical and electrical properties unaffected by degree of stretch.
- Can be stretched up to 100% to give void free, moisture resistant insulation.

Applications

- Self-amalgamating tape with excellent electrical properties.
- Primary electrical insulation for cable jointing and terminating up to 69kV at 90°C continuous operating temperatures and 130°C emergency overload temperatures.

Scotch® 27 - Glass Cloth Tape

Stock No.	Description	Thickness	Size
80610781918	Woven glass cloth tape.	0.178mm	19mm x 20m



Features

- Glass will not shrink, rot or burn and has high tensile stress.
- Designed for continuous use at 130°C with high temperature thermosetting adhesive.

Applications

- Applications requiring high mechanical strength and resistance to high temperatures.
- Heat stable insulation for furnace and oven controls, motor leads and switches.

Scotchfill® - Electrical Insulation Putty

Stock No.	Description	Thickness	Size
UT100000934	Electrical grade insulation compound in tape form.	3.175mm	38mm x 1.5m



Features

- Non-corrosive, synthetic rubber that will not dry out.
- Applies cleanly without waste.

Applications

- To build up cable joints and fill out major irregularities and voids in low voltage joints (<2300V).
- To insulate low-voltage (<600V) connections.
- To create moisture seal in high-voltage joints and for multi-conductor cable connections.
- To round out high-voltage connections to gear.
- To smooth busbar irregularities.

Scotch® 24 - Electrical Shielding Tape

Stock No.	Description	Size
BC000000887	All-metal, open-weave, shielding braid tape in a flat, cable-like form.	25mm x 4.5m



Features

- Fire resistant.
- Compatible with all high-voltage splicing and termination materials.

Applications

- To provide shielding for cable joints on shielded power cables.
- To make the conductive portion of the stress cone on power cable terminations.
- To smooth connector area in oil-filled cables.

Scotchrap® Tapes 50, 51 and Pipe Primer

Stock No.	Description	Size
UE000092648	Polyvinyl chloride based tapes with special high tack adhesives	24mm x 30.5m
UE000092663	Polyvinyl chloride based tapes with special high tack adhesives	48mm x 30.5m
UE000092705	Polyvinyl chloride based tapes with special high tack adhesives	96mm x 30.5m



Features

- Resistant to corrosive salt water, soil acids, alkalis and salts, common chemicals, chemical vapours and exposure to outdoor weathering and sunlight.

Applications

- The Scotchrap Tapes 50 and 51 are easy to apply without special tools or dangerous flame.

TAPES

Scotch® 70 - Silicone Rubber Tape

Stock No.	Description	Thickness	Size
UE100053029	Silicone Rubber Electrical tape.	0.3mm	25mm x 9m

Features

- Excellent track, ozone & arc resistance. High dielectric strength.
- Class "H" material (180°C continuous operation).
- Workable in extremely low temperatures.
- Excellent conformability.
- Excellent instantaneous fusion, does not need to be held down.

Applications

- As an Over-wrap for protection of terminating high-voltage cables against arcing and tracking.



Scotch® 13 Tape - Semi Conducting EPR

Stock No.	Description	Thickness	Size
UE100000947	Soft Black rubber tape highly conformable.	0.762mm	19mm x 4.5m

Features

- Remains stable at 130°C and is non-vulcanising.
- Elongates easily to form irregular shapes.
- Resist cracking, solvents, U.V and moisture.
- Tape and liner boldly printed to distinguish from insulating tape.
- Meets requirements of ADTM-D4388, Type IV.

Applications

- Electricity rounds-off high voltage connectors and lugs.
- Provides screen continuation for high voltage joints and terminations.
- Replaces semi-conducting layer beneath metallic shield of damaged cables.
- Forms conductive portion of stress cones.



Scotch® 77 Tape - Fire Retardant and Electric Arc Proofing Tape

Stock No.	Description	Size
HC000602306	Non-adhesive, Intumescent Elastomer.	76mm x 6.1m

Features

- Flexible unsupported elastomer - clean, easy to apply, eliminates cuts and contusions of hands.
- Conformability provides wrinkle-free wrapping and complete coverage with minimum effort.

Applications

- Designed to protect most types of electrical cables when exposed to potential failures in an adjacent cable.
- Specifically formulated adhesive expands in fire to form a thick char buildup between the flame and the cable. The resulting firewall acts as a heat shield and flame barrier, thus protecting the nearby cables and accessories.



Scotch® 2220 - Stress Tape

Stock No.	Description	Thickness	Size
UE333346406	Mastic Stress Tape	0.76mm	18mm x 4.8m

Features

- Scotch® 2220 Stress Control Type changes the voltage distribution in electrical field surrounding medium voltage joints or terminations.
- Range of Temperature: Continuous operating temperature 90°C: Emergency operating temperature: 130°C.

Applications

- Stress control in medium voltage joints and terminations; ines of flux are regulated to equalize the electrical stresses in a controlled manner along the entire taped joint or termination area where the shielding has been re-moved. By changing the electrical field surrounding the joint or termination, the stress concentration is reduced from several thousand volts to values found in continuous cable.



COMFORT GRIP GLOVES

Code	Size
WX300921193	Large
WX300921201	X-Large

Characteristics

- Exceptional comfort and breathability : Thin foam coating provides high breathability for maximum comfort.
- Flexibility: Fine gauge knit nylon liner provides flexibility and padding.
- High Durability: Unique nitrile formula offers resistance to abrasion.
- Machine washable.



JOINT KITS

AC Low Voltage Jointing Kits

Alvern LV joint range

The Alvern jointing kit range is manufactured in South Africa for the jointing of low voltage electrical cables up to 1000V. Compliant with International and South African standards, The Alvern LV joint range is suitable for 1,5mm² to 300mm² armoured or unarmoured cables.

Each AC (Alvern cables) joint kit is supplied with PU resin, EPR tape strips and a tapered mould for casting and jointing of the electrical cable.

Introduction

The resin supplied with the full range of AC Low Voltage Cable Jointing kits, is a cold vulcanizing complex blend of two liquid components, 100% solids, electrical grade, hydrolytically stable insulating POLYURETHANE resin system that is processed at room temperature. Supplied in a pre-weighed twin-pack mixing & application pouch system in the correct ratio, to enable a hand mixing technique without the need for scales, specialist equipment or skilled training.

The splice kit resin is designed for indoor, outdoor (weather exposed), direct buried or submersed applications. It is designed to be a fast, easy to use and extremely cost-effective that generates its own heat to cure on site and at room temperature. When mixed and applied correctly, the Resin has a Shore hardness of 65 – 65 Durometer Shore D which is ideally suited for repairing and splicing electric cable joints and effective encapsulation of electronic components with minimum waste. The resin's physical features have been specifically developed for the joining - in a very special procedure - for repairing and splicing of certain low voltages cables and effective encapsulation of electronic components - which is certified to International Standards when mixed and applied correctly. Their unique electrical and physical properties also make them ideal for insulating and protecting electrical/electronic parts and assemblies.



Alvern LV Joint Codes - Kit Selection Chart

UNIT PRODUCT CODE	CABLE SIZE WITHOUT AMOURING (mm ²)	CABLE SIZE WITH AMOURING (mm ²)	MAX CABLE O.D. (mm)	MOULD LENGTH (mm)
JK0	1,5-4	1,5-4	20	185
JKX1	1,5-4	1,5-4	20	185
JK1	4-10	4-10	30	230
JKX2	10-25	10-16	34	270
JK2	25-50	16-35	42	310
JK3	50-70	35-70	52	400
JK3.5	70-120	70-95	56	432
JK4	95-120	95-150	65	550
JK5	120-300	150-240	82	660
JK6	185-300	240-30	85	720



TYPICAL PHYSICALS AND CHEMICAL PROPERTIES

The Alvern resin yields a hard elastomer specifically developed for the electronic encapsulation industry. Dispensed into a special clear pouch with a divider in the middle, it is then packed in a special aluminium foil with processing instructions printed on the outside of the aluminium foil. The special clear pouch is designed to keep the two chemicals apart until it is ready for the components to be mixed in the pouch.

The Urethane Resin (A Component)		The Curative (B Component)		
RESIN	Appearance:	Off White Coloured liquid	Appearance:	Pale yellow to dark brown liquid
	Chemical Composition:	Polyols with special fillers	Chemical Composition:	Contains aromatic Isocyanate
	S.G at 25°C:	1,4	S.G at 25°C:	1,22
	Viscosity:	1 500 cps	Viscosity at 25°C (mPa S):	200 cps
	Flash Point (°C) (DIN 51755):	>160°C	Flash Point (°C)	Boiled at 238°C without igniting
	Physical State:	Free Flowing	Physical State:	Free Flowing
	Water Content:	0,05%	Flash Point (°C) (DIN 51755):	>150°C
CURATIVE				

JOINT KITS

AC Low Voltage Jointing Kits

The Urethane Resin (A + B Mixed and Cured)				
CURED RESIN	Appearance:	Cream Solid	S.G at 25°C:	1.4
	Hardness:	50 – 60 D Shore	Impact Strength :	>20 J/cm2
	Shrinkage During Cure:	<2.5%	Tensile Strength:	>4 N/mm2
	Surface Resistivity:	>1 x 10 ¹⁰	Tear Strength:	>63 N/mm Thickness
	Volume Resistivity:	>1 x 10 ¹⁰	Elongation:	20%
	Dielectric Strength:	>15 kV/mm		
	Water Absorption:	30mg@24hrs, 235°C		

WHEN FULLY CURED, ALVERN RESIN IS A TOUGH, HIGHLY DURABLE ELASTOMER CHARACTERISED BY:

- Good toughness and outstanding weathering properties.
- Excellent low temperature properties.
- Excellent low temperature properties.
- Good ageing resistance to heat, humidity, many chemicals, and good loading characteristics
- Low viscosity and easy processing characteristics.
- Excellent for water proofing and filling moulds for all cable sizes to prevent water permeation.
- Applied on site without any special equipment requirements.
- Certified to International Standards.
- Ideal for armoured and un-armoured cables.
- Tough and moisture proof.
- Shelf life of 24-months if stored correctly before splice assembly.
- Long lasting physical and electrical protection.

It MUST be noted that this is only a Technical Data Sheet, and NOT an Installation Instruction for an LV electrical cable resin splice kit.

The Alvern Installation instructions is available separately on request.
It is recommended that any LV electrical Splice Kit Installation be done by a qualified Electrician.



Product of South Africa

Panel-LOC

Anti-Theft Clamp System

Product Code: PANLOC

Application

Mid-clamp security lock for solar PV panel installations

Product Description

The Panel-LOC Anti-Theft Clamp System is a robust and innovative solution designed to deter theft and secure solar panels in commercial and residential installations. Engineered for easy integration into existing racking systems, this tamper-resistant locking mechanism ensures maximum panel security without compromising system aesthetics or functionality.

Key Features

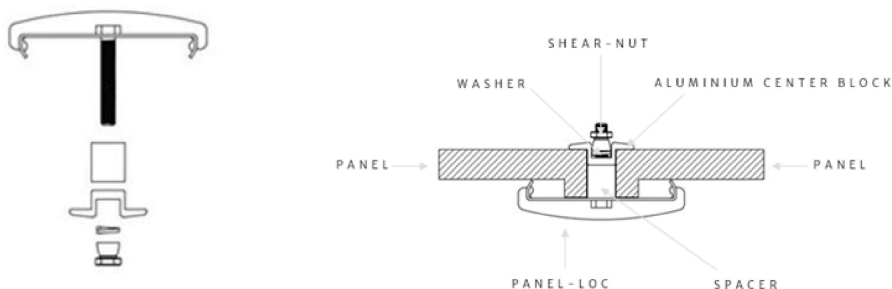
Secure Clamping Design: Locks directly between solar panel frames using a rotating clamp that secures into the frame when turned

Tamper-Proof Fastening: Uses a shear-nut that breaks off once fully tightened, eliminating re-access without tools

Materials: 316 Stainless steel plate, shear nut and bolts

Quick Installation: Simple, tool-assisted installation process with minimal training required

Compatibility: Compatible with a wide range of panels; no special mounting structure required



MC 4 Connector

Specifications

Description	Specifications
Rated Voltage	1500V DC
Rated Current	25A (2,5 sq.mm), 45A (4 sq.mm), 54A (6 sq.mm)
RMS Test Voltage	8 kV (1500V)
Impulse with stand Voltage	16 kV
Degree of Protec	IP 68
Contact Material	Copper with Tin Pla
Maximum Stripping Length	8mm to 10mm
Inflammability Class	UL94-V0
Ambient Temperature	-40° C to +85° C
Max. Operating Temp	+110° C
Pollution Degree	3
Contact Resistance	< 0,25 mΩ
Insertion Force	> 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In Specifica

Note : Our Connectors are suitable for PV Solar Cables of 2,5 / 4,0 / 6,0 mm diameter (As per EN 50618).
 'Imex' PV Solar Straight connectors EMPV4N with plug and socket design are constructed using flame retardant engineering thermoplas





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