



**SPECIALISED FORCE**  
HYDRAULIC TOOLS &  
ELECTRICAL CONTRACTORS EQUIPMENT

PTY. LTD.

# ***Live Working, Storage & Linesman Accessories***



***[www.specialisedforce.com.au](http://www.specialisedforce.com.au)***

## H. LIVE WORKING. STORAGE & LINESMAN ACCESSORIES

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## INSULATED TREE TRIMMING KITS (MADE IN USA)

### ALL OF YOUR TREE TRIMMING NEEDS IN ONE BAG

Open the tool kit bag and you have your choice of tree trimming tools in the length you need, all in a convenient heavy duty vinyl tool bag that offers long wear and maximum protection for the tools.



Model No.	Description	Weight	Kit Qty	Model No.	Description
<b>4141</b>	TREE TRIMMING KIT 1,200mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	6.8kg	4	-	<b>HF546-4</b> Stick Ext 1.2m <b>1</b>
<b>4142</b>	TREE TRIMMING KIT 1,800mmL x 32mm DIA ROUND FOAM FILLED SECTIONS (electrically tested at factory)	8.6kg	-	4	<b>HF546-6</b> Stick Ext 1.8m <b>2</b>
	Optional		1	1	<b>HF4125</b> Cutter Head <b>3</b>
<b>HF4005</b>	ROPE INSULATOR 860mmL	0.136kg	1	1	<b>HFA18007</b> Stick Base Cap <b>4</b>
<b>HF-4010</b>	ROPE INSULATOR 1100mmL	0.136kg	1	1	<b>HFA10012</b> Adaptor Universal Head <b>5</b>
			1	1	<b>HFP10046</b> Universal "S" Hook <b>6</b>
			1	1	<b>HFA11000</b> Saw Pruning Universal <b>7</b>
			1	1	<b>HFA10016</b> Handle Universal Saw <b>8</b>
			1	1	<b>HFA30007</b> Scabbard for Saw <b>9</b>
			1	-	<b>HF01-020</b> Carry Bag 1.2m Sticks <b>10</b>
			-	1	<b>HF01-021</b> Carry Bag 1.8m Sticks <b>10</b>



Rope Insulator for up to 33kV Model No. **HF-4010**

Rope Insulator for up to 66kV Model No. **HF4005**

Note:

- Manufactured to meet a variety of standards, including ASTM, IEC and OSHA
- Will withstand 100KV per foot
- Doesn't absorb moisture and is very durable





## INSULATED FIBREGLASS STICKS (MADE IN USA)

### TELESCOPIC INSULATED MEASURING STICKS

#### Triangular Insulated Combination Operating/Measuring Stick.

- Open and Close switches, disconnects, line fuses, as well as measure elevated heights.
- Eye level measurement markings means no calculations required.  
Read height is shown at the top of the Base section.  
Metric markings are printed in LARGE easy to read numbers.



Model No.	Extended Length (m)	Retracted Length (m)	Vinyl Storage Bag	Weight (kg)
<b>HFMV-25*</b>	7.8	1.6	<b>TE2607</b>	3.7
<b>HFMV-30*</b>	9.2	1.7	<b>TE2607</b>	4.6
<b>HFMV-35*</b>	10.5	1.7	<b>TE2607</b>	5.5
<b>HFMV-40*</b>	12	1.8	<b>TE2608</b>	6.5

\*Replacement sections available

Other measuring and operating sticks available upon request.



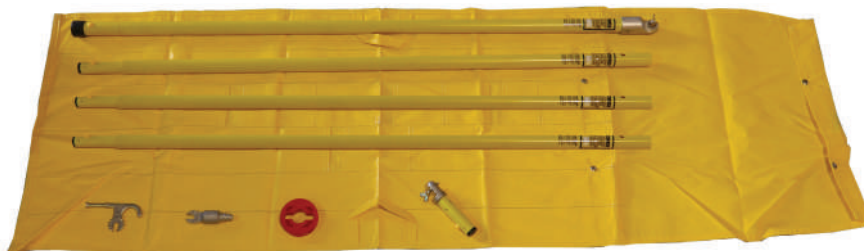
**Universal Disconnect Hook**  
(Supplied with Stick)



### INSULATED STICK KITS

Insulated stick kits for opening and closing switches & fuses.

- Available in 1200 & 1800mm sections.
- Tailor to your requirements.



Model No.	Description	Contents	QTY	
HF546-4/KIT	Insulated Stick Kit, 1200mm sections	HF5467-4*	1200mm Extension c/w Sunrise Head	1
		HF546-4*	1200mm Extension	3
		HFP10431*	Universal disconnect hook	1
		HFA10012*	Sunrise adaptor	1
		HFA30002*	Hand Guard	1
		FEH*	Fuse extraction head – pigtail	1
		HF01-020*	Vinyl Carry Case	1
HF546-6/KIT	Insulated Stick Kit, 1800mm sections	HF5467-6*	1800mm Extension c/w Sunrise Head	1
		HF546-6*	1800mm Extension	2
		HFP10431*	Universal disconnect hook	1
		HFA10012*	Sunrise adaptor	1
		HFA30002*	Hand Guard	1
		FEH*	Fuse extraction head – pigtail	1
		HF01-021*	Vinyl Carry Case	1

\*Replacement parts are also sold individually. Other sticks KITS available upon request

## AERIAL BUCKET MOUNTED TOOLHOLDERS (MADE IN USA)

Jameson's heavy duty bucket mount tool holders offer safe, convenient storage for bucket truck tools. Water repellent and UV resistant, they are designed to withstand extreme weather conditions.



Chainsaw Scabbard  
Model No. **24-14A**



Impact Wrench Holder  
Model No. **24-12A**



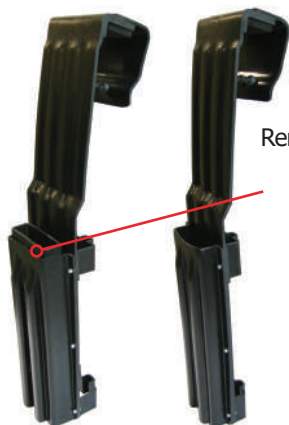
Impact Wrench Holder with Scabbard  
Model No. **24-12AH**



Slide in  
adjustable  
dividers



Tool Tray  
Model No. **24-17**



Chainsaw Scabbard with Removable  
Liner  
Model No. **24-14L**

Removable  
Liner



2Double Pocket Tool holder  
Model No. **24-15D**

Model No.	Description	Size (mm)	Bucket Lip Max (mm)	Weight (kg)
<b>24-12A</b>	Impact Wrench Holder	254 x 125 x 178	95	1.2
<b>24-12AH</b>	Impact Wrench Holder with Scabbard	762 x 280 x 229	95	2.2
<b>24-17</b>	Bucket Mounted Tool Tray	584 x 356 x 203	81	3.2
<b>24-14L</b>	Chainsaw Scabbard with Removable Liner	890 x 203 x 152	89	2.1
<b>24-14A</b>	Chainsaw Scabbard	850 x 127	89	2.0
<b>24-15D</b>	Double Pocket Tool holder	559 x 229 x 229	73	3.0

## STORAGE EQUIPMENT (MADE IN USA)

Estex is a solutions provider in the storage and management of tools



### TOOL APRONS

Estex has designed a series of tool aprons with multiple pocket configurations to fit inside the bucket.

They were designed to fit flat against the liner to minimise interference with line work yet maximise a linemen's ability to reach the necessary tools. Each apron has a non-conductive rod in the top for support as well as two brass grommets.



Yellow Vinyl Tool Apron with Multiple pockets  
Model No. **1829-AP-2**



Black INOSIL Tool Apron with hard body and Multiple pockets  
Model No. **1829-HB-7**



Model No.	Description	Size (mm)	Weight (kg)
<b>1829-AP-2</b>	Tool Apron-Yellow w/multiple pockets	724 x 102 x 673	2.3
<b>1829-HB-7</b>	Tool Apron-Black INOSIL w/multiple pockets & hard body	607 x 102 x 540	3.0

### HANGING HOOKS



Model No.  
**1830**



Model No.  
**1831**



Model No.  
**1842**



Model No.  
**1842-1**



Model No.  
**1843**



Model No.  
**1849**



Model No.  
**1849-OE**



Model No.  
**1849-OE-1**

Model No.	Description	Bucket Lip Size (mm)	Weight Approx. (kg)
<b>1830</b>	Polymer Hook 17.5mm Dia	55.00	0.2
<b>1831</b>	Polymer Hook 17.5mm Dia	76.00	0.2
<b>1842</b>	PVC Hook 16mm Dia	76.00	0.2
<b>1842-1</b>	PVC Hook 19mm Dia	76.00	0.2
<b>1843</b>	PVC Hook 16mm Dia	-	0.2
<b>1849</b>	PVC Hook 19mm Dia	100.00	0.2
<b>1849-OE</b>	PVC Cross Arm Hook 19mm Dia Also suitable for 95.25mm wide bucket lips	95.25	0.2
<b>1849-OE-1</b>	PVC Hook 19mm Dia	100.00	0.2



## STORAGE EQUIPMENT (MADE IN USA)

### BAGS AND TOOL BUCKETS

All Estex tool bucket are made of heavy duty canvas or vinyl coated nylon for long wear and use. The top ring is a single piece moulded, non-metallic material designed to stay open even under severe and continuous load. The bottoms are made of high impact polymer resins or leather.

The bag has leather side supports at the rope holes and a unique Estex feature whereby the bottom is stitched on and the body of the bag is folded back over the stitches to protect the threads from abrasion and excessive wear. This has the added benefit of providing a smooth padded area at the bucket bottom. Otherwise, your bucket becomes a rough sharp source of wear on the bucket truck and on the aerial bucket.

The bucket also has Strong UV resistance and rot resistant rope handle



Hose Bag  
Model No. **2630**

Model No.	Description	Dimensions (mm)	Weight (kg)
<b>2630</b>	Hydraulic hose bag, heavy weight vinyl	432 x 89 x 470	1.8

### TOOL BUCKETS

NOT RATED



Miniature Tool Bucket  
Model No. **2009**



Vinyl Tool Bucket  
Model No. **2059-V-HB**



Canvas Tool Bucket  
Model No. **2022**



Tapered Canvas Tool Bucket  
Model No. **2050-S-IP**



Splicers Tool Bucket Model  
No. **2059**

Model No.	Description	Dimensions (mm)	Weight (kg)
<b>2009</b>	Miniature tool bucket, without pockets	127 Ø opening x 152High	0.9
<b>2022</b>	Heavy duty canvas tool bucket, moulded top ring & bottom, polypropelene handle without pockets WLL 36kg	203 Ø opening x 305High	1.0
<b>2050-S-IP</b>	Tapered heavy duty canvas tool bucket, moulded top ring & bottom WLL 36kg	305 Ø opening x 305h 203 Ø bottom x 305h	1.1
<b>2059-V-HB</b>	Vinyl tool bucket with plastic bottom, 14 pockets, rope handle and snaphook 36kg.	304 Ø opening x 304High	1.3
<b>2059</b>	Splicers heavy duty canvas tool bucket moulded top ring & bottom, polypropelene handle, (14 pockets outside). 36kg rated.	305 x 305	1.4

**TOOL STORAGE (MADE IN USA)**

**ESTEX**



SINCE 1900



Hard Body Oval Tool Bucket  
Model No. **1820-HB-C**



Canvas Oval Tool Bucket  
Model No. **1820**



Splicers Oval Tool Bucket (INOSIL)  
Model No. **1815-14-7**



Canvas Splicers Oval Tool Bucket  
Model No. **1815-14**



Canvas Overhead Tool Bucket  
Model No. **2075-1215**



Vinyl Tool Bucket  
Model No. **2075-1215V**



Canvas Tool Carrier  
Model No. **2196-2-TVA**



Canvas Tool Bag  
Model No. **2113-24**

Model No.	Description	Dimensions (mm)	Weight (kg)
<b>1820-HB-C</b>	Oval tool bucket, w/hard body liner & cover (15 inside pockets)	381 x 178 x 229	1.2
<b>1820</b>	Heavy duty canvas oval tool bucket, w/pvc side supports (15 inside pockets)	381 x 178 x 229	1.1
<b>1815-14-7</b>	Splicers cordura oval tool bucket (inosil) (15 pockets inside / 14 pockets outside)	381 x 178 x 229	1.7
<b>1815-14</b>	Splicers canvas oval tool bucket (15 pockets inside / 14 pockets outside)	381 x 178 x 229	1.3
<b>2075-1215</b>	Canvas overhead rated tool bucket, w/ overhead rated snap, rated webbing strap (w/ box x), labelled & serialised for tracking & inspection, 10:1 safety factor, WLL: 50kg (printed in lbs on bucket)	305mm ø x 381h	1.3
<b>2075-1215V</b>	Heavy duty coated vinyl overhead rated tool bucket, w/ overhead rated snap, rated webbing strap (w/ box x), labelled & serialised for tracking & inspection, 10:1 safety factor, WLL: 80kg (printed in lbs on bucket)	305mm ø x 381h	1.3
<b>2196-2-TVA</b>	Canvas tool carrier, w/shoulder strap (20 pockets inside / 2 large pockets inside)	467 x 222 x 229	0.9
<b>2113-24</b>	Heavy duty canvas tool bag, steel frame, hard base, leather strap closure (610mm long)	610 x 254 x 356	2.2





## PETROL DRILL

### MODEL NO. PRO-TED260RS

#### TAS/TANAKA two-stroke engine drill with reverse gear.

This portable two-stroke engine drill is packed with 26cc's of power and is ideal for all types of TIMBER work. It features a gear reduction ratio for improved torque, and can be used with a number of attachments.

### FEATURES

- **Keyless Chuck**  
Heavy duty keyless chuck that holds up to 13mm drill shank making it easy to change drill bits.
- **Reverse Gear**  
Easy to change gear with reversible function for maximum operator convenience & versatility.
- **Ergonomic Handles**  
Ergonomic reversible front handle for left and right handed use that provides a comfortable grip for long hours of operator comfort.
- **Anti-Vibration**  
For Reduced Operator Vibration



### SPECIFICATIONS

- 2 Year Limited Warranty
- Power: 26cc
- Output: 0.7 kW
- Dry Weight: 5.2kg
- Fuel Capacity: 0.6L
- Fuel Consumption at Max. Engine Power: 0.67 L/h
- 13mm Chuck
- Max Bit Size: 25mm Wood
- Complies with Australian Emission Laws
- Gear Reduction Ratio - 10.6:1  
19.58:1 Forward - 20.38:1 Reverse
- Throttle Setting Device
- Reversible Function
- Cylinder: Chrome Plated for Longer Life
- Connection Rod: Forged Steel
- Petrol/Oil Ratio: 25:1
- Carburetor: Walbro - Diaphragm Type
- Noise Level: 79DB

Model No.	Description
<b>PRO-TED260RS</b>	Petrol Drill with 13mm Keyless Chuck (Supplied Standard)
<b>EDR2400-EXT</b>	Male & Female threaded Extension Shaft 360mm
<b>0593212091</b>	13mm Capacity Keyed Chuck



**PRO-TED260RS Shown with Extension  
EDR2400-EXT**

### MODEL No. ME-HTT1 HELICAL TERMINATION TOOL

Specially designed and field tested in collaboration with field crew of a major power company, for the winding and unwinding of helical fittings for guy wire and other large conductors.

#### FEATURES

- Strong, lightweight aluminium body
- Ergonomically designed for effortless winding and unwinding of helical fittings for guy wire and other large conductors
- Hanging hole at the rear of the tool for easy storage or attachment to tool belt as required
- May be anodised in a range of colours (optional)



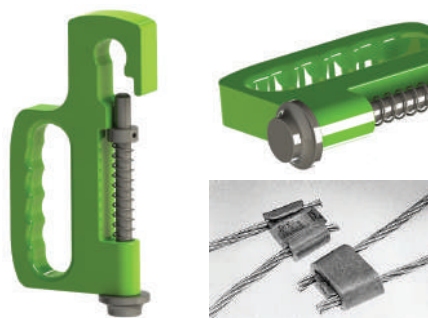
Model No.	ME-HTT1
Material	Lightweight corrosion resistant aluminium
Overall Dimensions (mm)	55 Ø x 340 L
Weight (kg)	0.4

### MODEL No. ME-WRT1 AMPACT WEDGE REMOVAL TOOL

Aids in the removal of Ampact Wedge connectors from "C" members.

#### FEATURES

- Impact resistant hammer pin treated for strength and corrosion to prolong fatigue life of tool
- Spring loaded for ease of use
- Solid, heavy duty mild steel body capable of absorbing impact



"AMPACT WEDGE CONNECTOR"

Model No.	ME-WRT1
Material	Mild steel body, tool steel hammer pin
Overall Dimensions (mm)	225 x 112 x 24
Weight (kg)	1.5

### MODEL No. ME-CAD1 CROSS ARM DRILL

Designed to drill over a king bolt and assist in the removal of wooden crossarms from power poles.

#### SPECIFICATIONS

Model No.	ME-CAD1
Material	Main Body: High strength precision tube Hex and drill head: High tensile steel, heat treated for additional strength and durability Attachments: 10mm Titanium carbide
Mass	Approx. 1.2kg
Maximum Bolt Size	24mm Dia.
OAL Dimensions (mm)	375 L x 48 Ø x 34 Hex (A/F)
Weight (kg)	1.2



#### FEATURES

- High strength, light weight design
- For use with 1/2" drive adapter
- Replaceable drilling inserts incorporated into the design of the drill head held in place with Torx screws for ease of replacement (1 set included, additional inserts and Torx screws may be purchased in sets of 10). Torx Screwdriver not included
- Inbuilt drilling support to increase stability and minimise vibrations during drilling procedures
- Designed in conjunction with Australia's leading power companies
- For use with hydraulic impact wrench or electric power drill

## MODEL No. SB-3UK IPC/SHEAR BOLT IMPACT WRENCH

The SB-3UK is a battery operated impact wrench especially designed to torque down the shear bolts or IPC's (Insulation Piercing Connectors) for electrical connection use.

### FEATURES

- The tool features a unique shape to reduce its length for easy access to tight space.
- It develops 196 Nm of torque and features variable speed to 2,200 rpm.
- As it was designed for electrical work, there is no opening for air circulation.

**Continuous use will overheat and damage the tool. Rest the tool after 20 bolts are sheared.**

### DETAILS

- Battery operated impact wrench for shear bolts
- Short body length for tight space application
- Well balanced and light weight
- Lithium-Ion batteries
- Manufacturer ISO 9001 accredited

### SPECIFICATIONS

Torque (Nm)	196
Speed (RPM)	0–2,200
Motor (VDC)	14.4
Socket Retainer	1/2" square drive
Dimensions (mm)	350 (L) x 180 (H) x 75 (W)
Weight Inc Battery (kg)	2.2

### ORDERING INFORMATION

**Model No.: SB-3UK (CC)**

Includes: Wrench Unit, Plastic Carrying Case, 2 x Lithium-Ion Batteries (**BP-84LI**) and 12/24VDC & 230VAC Charger (**CH-120**)

(Refer pages 14 for Battery & Charger details)



**IZUMI**





## WRENCHES – STANDARD & UTILITY

### DOUBLE SIDED PODGER RATCHET WRENCHES

Model No.	Size (mm A/F)	Opening	Length (mm)
64110	10 x 12	12 POINT	240
64111	11 x 13		240
64114	14 x 15		280
64117	17 x 19		315
64118	18 x 24		360
64119	19 x 24		360
64121	21 x 23		360
64122	22 x 24		360
64124	24 x 30		360
64127	27 x 30		425
64128	27 x 32		425
64132	32 x 36		425
64135	38 x 41		485
64146	46 x 50		485
61624	1/2" Male to 3/4" Male	n/a	400



To order pawl and spring add "R" to the end of the part number (eg. 64117-R)

### UTILITY RATCHET WRENCHES

Model No.	Size (mm A/F)	Notes	Length (mm)
61317-6P	13 x 17	6 Point Hex with Acetate Handle for IPC's	180
61317-6PL	13 x 17		280
BY3	17 x 19 x 24 x 30 (4 in 1 spanner)	Ideal for Pole Work	285

#61317-6P



#61317-6PL



#BY3 (Made in Japan)



#19



#30



#24



#17

## RUBBER INSULATED LIVE WORKING GLOVES



balmoral engineering



### FEATURES

- Pure Latex Gloves manufactured under ISO 9001/ISO 14001
- Certified to EN 60903 also available in ASTM D120
- Ergonomically shaped excellent strength & durability
- Supreme feel & flexibility
- Outer Protector Gloves custom designed to perfectly complement the Marigold Rubber Insulating Glove
- Manufactured without the use of solvents & hazardous chemicals utilising a proprietary aqueous dipping process
- Acid resistant
- Ozone resistant
- Low temperature resistant
- Comprehensive range of classes, colours, lengths and sizes, including half sizes
- Various cuff styles available including straight, contour and bell
- Arc flash certified

### GLOVE SIZE SELECTION

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



### HOW TO MEASURE

Measure around your hand above the V of the thumb. This gives you the circumference in mm/inches.



Rubber Insulating Glove Item Number Legend	
	<b>Example:</b> RIG-4-18-YB-C-10H
	A   B   C   D   E   F
	A – <b>Glove Type:</b> RIG (Rubber Insulating Glove)
	B – <b>Class:</b> 00/0/1/2/3/4
	C – <b>Length:</b> 280 – 460mm (11-18")
	D – <b>Colour:</b> R/Y/YB/BY (Red, Yellow, Yellow under Black, Black under Yellow)
	E – <b>Cuff:</b> S/C/B (Straight/Contour/Bell)
	F – <b>Size:</b> 7/8/8H/9/9H/10/10H/11 (H = ½ Sizes)

Glove Size	Nominal Hand Circumference	
	mm	Inches (")
7	178	7
8	203	8
8 ½	216	8 ½
9	229	9
9 ½	241	9 ½
10	254	10
10 ½	267	10 ½
11	279	11
Tolerance: +/- 13mm		
Allow an extra 13mm if Cotton Liners are to be used		

Gloves Class	Description	Gloves Class	Description
<b>Class 00</b>	500 Volt AC Working	<b>Class 2</b>	17,000 Volt AC Working
<b>Class 0</b>	1,000 Volt AC Working	<b>Class 3</b>	26,000 Volt AC Working
<b>Class 1</b>	5,000 Volt AC Working	<b>Class 4</b>	36,000 Volt AC Working

Additional sizes and working voltage (class) gloves available upon request. For full list please scan the QR code.



**LOW VOLTAGE RUBBER INSULATED LIVE WORKING GLOVES**



balmoral engineering

			
500v 11 INCH STRAIGHT CUFF	500v 14 INCH STRAIGHT CUFF	CLASS 0 14 INCH STRAIGHT CUFF	CLASS 0 14 INCH STRAIGHT CUFF (DUAL LAYER)
<b>RIG0011R-SIZE</b>	<b>RIG0014Y-SIZE</b>	<b>RIG014Y-SIZE</b>	<b>RIG014BY-SIZE</b>

Model No.	Size	Glove Length (inch)	Type	Class	Working Voltage (VAC)
<b>RIG0011RS9</b>	9	11	Straight Cuff	00	500
<b>RIG0011RS10</b>	10	11	Straight Cuff	00	500
<b>RIG0014YS10</b>	10	14	Straight Cuff	00	500
<b>RIG014YS9</b>	9	14	Straight Cuff	0	1000
<b>RIG014YS9H</b>	9.5	14	Straight Cuff	0	1000
<b>RIG014YS10</b>	10	14	Straight Cuff	0	1000

**LV OUTER PROTECTOR**

Model No.	Description	Size	Glove Length (inch)
<b>OUTLVGS8</b>	LV Outer Protector – Goatskin Velcro Cotton Strap Kevlar Thread	8-8.5	10
<b>OUTLVGS9</b>		9 – 9.5	10
<b>OUTLVGS10</b>		10 – 10.5	10
<b>OUTLVGS11</b>		11	10



100g Glove Talcum Powder for high voltage gloves



**GLOVE LINERS**

Model No.	Description	Length (inch)
<b>COT1</b>	Cotton - Interlock Liners	10
<b>COT2</b>	PolyCotton - Knitted Liners	10
<b>COT3</b>	Cotton - Interlock Liners	14

**GLOVE SLEEVE BAG**

Model No.	Description	Dimensions (mm)
<b>26012</b>	LV Glove Bag - 2 Pocket Treated Canvas. Velcro Close - Webbing Loops	390 x 210 x 45
<b>26016</b>	LV Glove Bag - 2 Pocket Loomstate Canvas. Velcro Close - Webbing Loop	400 x 220 x 75
<b>26023</b>	LV Glove Bag - 1 Pocket Loomstate Canvas. Velcro Close - Webbing Loop	400 x 220 x 75



26012



26016



26023



## LV INSULATED LINE COVERS & GUARDS




balmoral engineering

### FEATURES


- Suitable for use on Power Lines & Wires as visual warning, mechanical protection and electrical insulation
- Rigid guards or flexible style hose cater for most requirements
- Eyelet in bell housing allows locking by cable ties & complies with WHS requirements
- Unique striped safety feature (Tiger Tail Only)
- Weather resistant
- Stamped & rated to comply with Australian and International Standards
- Robust design and construction backed by decades of engineering to ensure the highest quality & safety standards




### TIGER TAILS & LION TAILS

Image	Model No.	Class	Working Voltage (VAC)	Dimensions	Certification
	DB35A	1	650	2.5m x 35mm	AS4202 - HDPE
	DB45A	1	650	2.5m x 45mm	AS4202 - HDPE

### GUY GUARDS - NON-INSULATED

Image	Model No.	Description	Dimensions	Certification
	GG	For Stay & Guy Wires (Not Rated For Electrical Insulation)	2m x 45mm	HDPE

### JUMPER WIRE GUARDS

Image	Model No.	Description	Class	Working Voltage (VAC)	Dimensions	Certification
	IPEP	Flexible hose for covering Bonds, Bridges & Jumper Wires	1	650	10m x 35mm	AS4202

## WM SERIES LINE WARNING MARKERS & FLAGS



balmoral engineering

Power line strikes from construction and agricultural plant and equipment are an all too common occurrence, potentially causing serious injury or death. These incidents can result in major asset damage and power outages.

Our Balmoral Rotamarka™ has been specifically designed to mitigate against these risks faced by electrical transmission and distribution companies, as well as contractors and industry workers worldwide.

### ROTAMARKA FEATURES

- Designed with science
- Premium reflectors on all fins
- High internal contrast of fins provides better visibility in a range of environmental conditions
- Less markers required on lines
- Highly tested, designed for durability
- Aerodynamic design rotates for high impact visibility
- AS 3891.2 2018 Clause 2.3.1 (d) compliant
- 3D design provides enhanced visibility from all angles of approach



WM-CS-E-1H-BW



WM-CS-E-1H-RW



WM-CS-E-1H-BY



WM-CS-E-1J-O



WM-CS-B-1H-BW



WM-CS-B-1H-RW



WM-CS-B-1H-BY



WM-CS-B-1J-O

### Warning Marker Part Number

**Example:** WM - CS - B - 1H - RW  
A B C D E

**A- Product Type:** WM (Warning Marker)

**B- Line Attachment:** CS (Clamp Screw)

**C- Hot Stick Attachment:** B/E (Bayonet or Eye Ring)

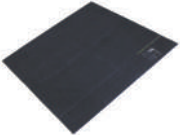



**D- Style of Warning Device:** 1H/1J (Rotamarka Flag)

**E- Colour:** RW/O/BY/BW (Red/White, Orange, Black/Yellow, Black/White)

## MATS & COVERS




balmoral engineering


Image	Model No.	Description	Dimensions	Class	Type	Working Voltage (VAC)	Material	Certification
	<b>181A</b>	Ground Mats	1mx1mx6mm	A		650	EPDM	AS2978
	<b>2001</b>	Line Covers	1.2mx225mm drop		Studs	650	PVC	AS4202
	<b>3001</b>		1.2mx300mm drop	2	Studs	650	PVC	AS4202
	<b>2003</b>		1.2mx225mm drop		Magnet & Studs	650	PVC	AS4202
	<b>2004</b>	Line Covers	1.2mx225mm drop					
	<b>2010</b>		1mx235mm drop	2	Velcro	650	EPDM Velcro	AS4202
	<b>3002</b>		1.2mx300mm drop					
	<b>7010</b>		1mx235mm drop		Velcro		EPDM Velcro	

Special sizes available on application


## SUBSTATION & SWITCHBOARD DRAPES

Image	Model No.	Dimensions	Type	Class	Material	Working Voltage (VAC)
	<b>19002</b>	Cable End Covers	245x190mm	2	PVC	650
	<b>19003</b>		230x110mm			

## MATS & COVERS ACCESSORIES

Image	Model No.	Description	Dimensions	Type	Material
	<b>YS-211-3-5</b>	Clamp	220x115x22mm	Clamps	Polypropylene

## RESCUE KITS

Image	Model No.	Description	Contents
	<b>11002</b>	Switchboard Rescue Kit	1x Bag, 1x CPR Card, 1x Crook, 1x Torch, 1x Isolate Here Sign, 1x Trauma Dressing, 1x Fire Blanket, 1x Rubber Gloves





## ELECTRICAL ARC PROTECTION BLANKET

The possibility for Electrical Arc is an incredibly dangerous aspect of working in manholes and other utility areas. The Estex BlastMat Arc Protection Blanket provides a measure of protection against severe injury and even death in Electrical Arcing when used properly. The Arc blanket is designed to manage thermal radiation of both the heat and fire created by the blast event, a pressure wave, and a molten spray.

- Kevlar straps available for quick and easy installation
- Hang blankets loosely and at least 20cm from potential fault
- The BlastMat can be configured to fit the circumstances of the vault for particular jobs

## BLANKET LAYERING CONSTRUCTION

The BlastMat Arc Suppression Blanket is made in three configurations: A **3 layer Light-Line style blanket** used in 15KA applications, a **4 layer blanket** used in 25KA applications and a **6 layer Regular-Line style blanket** used in a 40KA application. Layers include Kevlar, ballistic fabric and nomex blends.

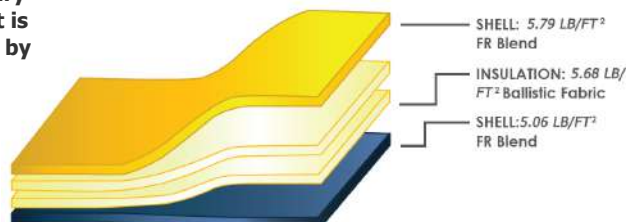
## STANDARD TO PROVIDE GUIDANCE FOR ITS EFFECTIVENESS AND CAPACITY

**STANDARD ASTM 2676-09 HAS THREE PARTS THAT ARE SCORED TO PASS THE TEST:**

1. The KA (KiloAmps) threshold, which chronicles the blankets maximum current at which it will fail at 10 cycles.
2. Time in cycles it takes the blanket to fail thereby calculating the blankets mechanical number is derived by multiplying the threshold number, for example 25KA with the cycle time, for example 20 cycles, the time the blanket held until failure, to equal the KA Cycle level of 500 (which is the total energy management of 500KA).
3. Evaluate ability of the blanket to self-extinguish after the arc explosion ceases.  
ASTM 2676-09 provides for three levels of testing: 15KA, 25KA, and 40KA.

## SPECIFICATIONS

Model No.	Size
<b>15KA ARC PROTECTION BLANKET - 3 Layer</b>	
<b>TE3-15-4860</b>	120cm x 150cm
<b>TE3-15-6096</b>	150cm x 244cm
<b>25KA ARC PROTECTION BLANKET - 4 Layer</b>	
<b>TE2-48-60</b>	122cm x 150cm
<b>TE2-48-96</b>	122cm x 244cm
<b>TE2-56-96</b>	142cm x 244cm
<b>TE2-72-96</b>	183cm x 244cm
<b>40KA ARC PROTECTION BLANKET - 6 Layer</b>	
<b>TE2-W4860</b>	122cm x 142cm
<b>TE2-W4896</b>	122cm x 244cm
<b>TE2-W7296</b>	183cm x 244cm
<b>KEVLAR STRAP KIT</b>	
<b>TE-S-6HK-KIT</b>	8 each x 6-ft Adjustable, Heavy Kevlar Straps, with Rated Cam-buckle; 2 x Rated Aluminium Carabineers in a canvas zipper pouch



## CARE AND USE INSTRUCTIONS

1. UV light found in sun and fluorescent lighting effects all Aramid fabric's strength. Proper storage is required to prevent UV damage. Always store blankets after thoroughly dried.
2. BlastMat Blankets can be laundered with normal detergents. Water temp should not exceed 60 degrees Celsius. DO NOT USE Chlorine Bleaches. Rinse thoroughly. Tumble Dry on Delicate or Air Dry preferably.

## WARNINGS AND PRECAUTIONS

1. BlastMat Blankets give limited protection because of the unpredictable nature of electrical discharges and may not fully contain the pressure wave, plasma arc flash, or blast material, but only reduce or dampen the explosive and incendiary effects. In such cases, injuries or even death may still occur, even if the blanket is properly used.
2. BlastMat Arc Suppression Blankets are designed for protection from the effects of arcing fault and is not classified as "Electrically Insulated" must never be used in this way.
3. BlastMat Blankets, hardware and strapping should be visually inspected before each use. Signs of wear or deterioration of components or stitching should cause the product to be disqualified for use. A user sponsored inspection and qualification program is recommended. Serial numbers and production dates are provided with each blanket.



## CABLE LENGTH METER

Used to measure the length of insulated copper or aluminium conductors on a spool, and to measure low resistance values.

- Automatic Power Off for maximum battery life
- Automatic temperature compensation for maximum accuracy
- Accurate to  $\pm 1.0$  to  $1.5\%$
- Display : Large Digit LCD
- Voltage Rating : Not intended for connection to live voltage
- Eight user-programmable settings for other sizes
- Powered by (6) 1.5V AA batteries
- Replacement calibration rods (pair) available as CLM-ROD, UPC 02721
- Replacement Kelvin clips (pair) available as CLM-CLIPS, UPC 02722



## SPECIFICATIONS

Model No.	02720 (CLM-1000E)
Description	Cable Length Meter for Metric Wire and Cable
Wire Sizes	0.75, 1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400, 500 mm <sup>2</sup>
Length Measurement	5.0 m to 30.00 km (3 Ranges)
Resistance Measurement	199.99 mΩ to 1999.9 Ω (5 Ranges)



## NON-CONTACT VOLTAGE DETECTOR

Used to detect voltage in outlets, lighting fixtures, circuit breakers, wires, and cables or to find a break in a wire.

- **Patented Automatic Self -Test-** Verifies circuit integrity
- **Versatile Voltage Detection-** Use in outlets, lightning fixtures, circuit breakers, wires and cables
- **Clear Voltage Indication-** Audible and visual alerts when voltage is present
- **Bright Flashlight-** Illuminates dark work spaces
- **Auto Shutoff-** Automatically turns off after 5 min of inactivity
- **Low Battery Indication**
- **Ergonomic Grip & Button Location-** Optimized for comfort and end-of-use



## SPECIFICATIONS

Model No.	04718 (GT-13)
Type	Non-Contact Voltage Detector
Battery	2 x 1.5V AAA
Frequency	50/60 Hz
Measurement Category	CAT IV, 1000V
Voltage Rating	50V - 1000V AC
Standards	CE Compliant

