



# Earthing Kits



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS  
FURSE EARTHING  
[www.cablejoints.co.uk](http://www.cablejoints.co.uk)  
**Thorne and Derrick UK**

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### 3M™ AC Series - Armour Continuity Kits

This Scotchcast™ Armour Continuity Kit is designed to provide complete electrical continuity across the joint position on 2, 3 or 4 core armoured power cables for inline, tee or branch configurations.

The AC kits contain two interlocking contact rings and two lengths of steel band with pre-assembled buckles. Used in conjunction with an ACC kit containing the required length of copper cord.

The JO20 'Pok-It' Tool is used to assemble the components and ensure low contact resistance.

| ACCEPTED CABLE DIAMETER |     |      |
|-------------------------|-----|------|
| KIT                     | MAX | MIN  |
| AC-1                    | 13  | 8    |
| AC-2                    | 19  | 13.1 |
| AC-3                    | 25  | 19.1 |
| AC-4                    | 32  | 25.1 |
| AC-5                    | 38  | 32.1 |
| AC-6                    | 44  | 38.1 |
| AC- 7                   | 48  | 44.1 |
| AC-8                    | 54  | 48.1 |
| AC-9                    | 60  | 54.1 |
| AC-10                   | 70  | 60.1 |

| COPPER CORD LENGTH |      |
|--------------------|------|
| KIT                | Mm   |
| ACC-21             | 180  |
| ACC-22             | 230  |
| ACC-23             | 350  |
| ACC-24             | 950  |
| ACC-25             | 1300 |
| ACC-26             | 2300 |



## Band it Pok it Tool

Pok-It II Tool J020 is a lightweight pocket sized tool for use with 3M AC Series Kit. Applies tension and includes built-in cutter. Weight 1.1lbs (.5kg).



## 3M™ Constant Force Springs

Scotchcast™ Constant Force Springs are a range of solderless connections for use on lead or aluminium sheaths and copper screened cables.

The springs are easily applied by rolling onto the sheath connections, whereupon it continues to exert a constant pressure.

| PART NUMBER | INNER DIAMETER<br>OF SPRING | SPRING<br>WIDTH | SPRING TAPE<br>LENGTH (Mm) | MIN DIA | MAX DIA |
|-------------|-----------------------------|-----------------|----------------------------|---------|---------|
| P59         | 3.5                         | 9               | 80                         | 4       | 10      |
| P60         | 7.5                         | 10              | 175                        | 9       | 15      |
| P61         | 11                          | 16              | 225                        | 14      | 22      |
| P62         | 14.5                        | 16              | 295                        | 18.5    | 29      |
| P63         | 18.5                        | 16              | 375                        | 23.5    | 37      |
| P64         | 25                          | 16              | 505                        | 31      | 50      |
| P65         | 32                          | 20              | 710                        | 44      | 70      |
| P66         | 44                          | 20              | 935                        | 58      | 94      |
| P67         | 57                          | 20              | 1250                       | 70      | 110     |



## 3M™ Earth Bonding Kits SB 1 - SB4

Scotchcast™ Spring Bonding Kits may be used to bond the armour wires on armoured cables in 'Scotchcast' Cable jointing, including the 'resin pressure method' of jointing. The SB kits provide an electrical bond and should be used where earthing leakage protection is installed.

The SB Series contains two constant force springs; copper braid and insulating tape and can be applied without the aid of special tools.

| KIT | ACCEPTED CABLE DIAMETER (Mm) | LENGTH OF COPPER CORD |     |
|-----|------------------------------|-----------------------|-----|
|     | MAX                          | MIN                   | MIN |
| SB1 | 12                           | 9                     | 200 |
| SB2 | 19                           | 14                    | 250 |
| SB3 | 25                           | 23.5                  | 320 |
| SB4 | 38                           | 31                    | 350 |



## Size

25mm x 4.5m

## Scotch® 24 Electrical Shielding Braid

Scotch® 24 Electrical Shielding Tape is an all metal, open-weave, shielding braid tape in a flat, cable like form. It is conformable due to the open-weave knit construction of two No.36 AWG tinned copper wires. Tape thickness is 0.406mm.

### Features

- Tinned copper conductors
- Stable at elevated temperatures
- Oil resistant
- Compatible with power cable insulations
- Fire resistant
- Elongates easily to conform to inclined or uneven surfaces
- Corrosion resistant
- Compatible with all high-voltage splicing and terminating materials
- Unaffected by solvents, UV, ozone, and moisture
- Suitable for indoor and outdoor applications

### 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



## Size

25mm x 4.5m

## Scotch® 25 Electrical Grounding Braid

Scotch® 25 Electrical Grounding Braid is an all-metal woven grounding braid in a flat, cable-like form. It is conformable due to its woven construction of 240 strands of #30 AWG tinned copper wires. Tape thickness is 2.38mm. Cross sectional area 16mm².

### Features

- High current-carrying capacity
- Tinned copper wires
- Stable at elevated temperatures
- Oil resistant
- Compatible with all power cable installations
- Fire resistant
- Easy conformity to irregular surfaces
- Corrosion resistant
- Compatible with high-voltage jointing and termination materials
- Unaffected by solvents, ultra-violet, ozone, and moisture
- Usable for indoor and outdoor applications
- Can be easily soldered to high-voltage cable shields

### Applications

- To provide a fault current path across shielded cable joints
- For grounding high-voltage joints, terminations, cables or other cable accessories



3M™ Copper braid

3M supply a range of copper braid to be used as an earthing & grounding accessory for joints and terminations.

Available in a continuous roll of 3/8" flat copper braid, or in cut pieces of Tinned Copper Hose.

Applications

- To provide earth continuity and fault current path across shielded low voltage cable joints
- For grounding joints, terminations, cables, or other cable accessories

| Range Available |                    |
|-----------------|--------------------|
| Flat Braid      | 3/8" x 100m (4mm²) |
| Tinned Cu Hose  | 16mm² x 300mm      |
| Tinned Cu Hose  | 25mm² x 400mm      |
| Tinned Cu Hose  | 50mm² x 450mm      |
| Tinned Cu Hose  | 95mm² x 600mm      |



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|                                                    |
|----------------------------------------------------|
| Electrical Tapes                                   |
| Low Voltage Joints & Terminations                  |
| Cold Shrink tubes & End Caps                       |
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| Resins                                             |
| Medium Voltage Joints & Terminations               |
| Hazard Area Joint & Termination Kits               |
| Cable & Wire Management                            |
| Lugs & Connectors                                  |
| Heat Shrink                                        |
| Cable & Fault Locators & Electronic Marker Systems |