



WWW.CABLEJOINTS.CO.UK  
**THORNE & DERRICK UK**  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK

## British Rail Approved Items for 3M EMD Products

### Cable Joints up to 6.6kV

#### Points Heating Cable Jointing Kits

| BR Cat Number       | 3M Part nbr Description                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 55/109022 BR/91-A12 | For 2 Core 6mm <sup>2</sup> and 16mm <sup>2</sup> PVC SWA Cable                                                                           |
| 55/109026 BR/91-A13 | For 16mm <sup>2</sup> 3 Core Flex Cable, & 16mm <sup>2</sup> 4 Core PVC SWA Cable                                                         |
| 55/109024 BR/91-A14 | For 35mm <sup>2</sup> 4 Core Cu PVC SWA Cable                                                                                             |
| 55/109023 BR/91-A15 | For 50mm <sup>2</sup> and 70mm <sup>2</sup> 4 Core Cu PVC SWA Cable                                                                       |
| 55/109025 BR/91-A16 | For 150mm <sup>2</sup> 4 Core Cu PVC SWA Cable                                                                                            |
| 54/037039 91-A11    | Inline Scotchcast Min 8mm Max 26mm OD                                                                                                     |
| 54/037019 91-A12    | Inline Scotchcast Min 14mm Max 32mm OD                                                                                                    |
| 54/015664 91-A13    | Inline Scotchcast Min 23mm Max 37mm OD                                                                                                    |
| 54/037048 91-A14    | Inline Scotchcast Min 39mm Max 51mm OD                                                                                                    |
| 54/015624 91-A15    | Inline Scotchcast Min 36mm Max 63mm OD                                                                                                    |
| 54/105663 91-A16    | Inline Scotchcast Min 48mm Max 80mm OD                                                                                                    |
| 54/015634 91-A17    | Inline Scotchcast Min 45mm Max 90mm OD                                                                                                    |
| 54/110490 91-B121   | Branch Scotchcast Main 8-26mm OD, Branch 8-26mm OD                                                                                        |
| 55/121353 LO41      | PST for 500mm <sup>2</sup> , 630mm <sup>2</sup> , 1000mm <sup>2</sup> Alu/Cu Terms<br>Min Dia 24.4mm, Max Dia 98.2mm, Length 234mm        |
| 55/121352 LA11      | PST for Butt/Inline Terms 500mm <sup>2</sup> , 630mm <sup>2</sup> , 1000mm <sup>2</sup> Alu/Cu<br>Min Dia 38.1mm, Max 114mm, Length 457mm |
| 55/121351 LO42      | PST for Butt/Inline Joints/Terms for 150mm <sup>2</sup> , 240mm <sup>2</sup> Cu/Alu<br>Min Dia 38.1mm, Max Dia 114mm, Length 457mm        |
| 55/022506 8407-12   | PST EPR for Butt/Inline Joints/Terms for Cu/Alu<br>Min Dia 18mm, Max Dia 41.5mm, Length 305mm                                             |

### 11kV Cable Terminations for PILC/Polymeric Screened Cables (Cu and Alu)

| BR Cat Number | 3M Part nbr Description                                                        |
|---------------|--------------------------------------------------------------------------------|
| 54/073246     | MT16 Term Indoor for 3 Core Alu/Cu PILC/CAS SWA Cable 70-300mm <sup>2</sup>    |
| 54/073248     | MT25 Term Indoor for 3 Core Alu/Cu XLPE/EPR Scr PVC/SWA 25-70mm <sup>2</sup>   |
| 54/073249     | MT26 Term Indoor for 3 Core Alu/Cu XLPE/EPR Scr PVC/SWA 95-185mm <sup>2</sup>  |
| 54/073250     | MT27 Term Indoor for 3 Core Alu/Cu XLPE/EPR Scr PVC/SWA 240-300mm <sup>2</sup> |

### 11kV Cable Jointing for PILC/Polymeric Screened Cables (Cu and Alu)

| BR Cat Number | 3M Part nbr Description                                                                         |
|---------------|-------------------------------------------------------------------------------------------------|
| 54/035031     | MA27 Inline Joint for 3 Core 185-240mm <sup>2</sup> Str Alu/Cu, 11kV XLPE/SWA                   |
| 54/035032     | MA17 Inline Joint for 3 Core 70-150mm <sup>2</sup> Str Alu/Cu, 11kV PILC/CAS SWA                |
| 54/035033     | MA18 Inline Joint for 3 core 185-300mm <sup>2</sup> Str Alu/Cu, 11kV PILC/CAS SWA               |
| 54/035034     | 91-A17+92-P241/3 Transition Joint for 3 Core 70-150mm <sup>2</sup> Al/Cu, 11kV<br>PILC/PICAS    |
| 54/035035     | 91-A175 +92-P242/3 Transition Joint for 3 Core 185-300mm <sup>2</sup> Al/Cu, 11kV<br>PILC/PICAS |
| 54/037049     | MA21 Joint Kit Single Core XLPE or EPR 25-95mm <sup>2</sup> Al/Cu                               |
| 54/015638     | MA22 Joint Kit Single Core XLPE or EPR 120-240mm <sup>2</sup> Al/Cu                             |
| 7/051081      | MP23 Resin 1471 Extra 1471 Resin for MA27 Kit                                                   |



WWW.CABLEJOINTS.CO.UK  
**THORNE & DERRICK UK**  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK

### **33kV<sub>phase</sub> Cable Jointing for XLPE/XLPE**

| BR Cat Number | 3M Part nbr Description                                                                       |
|---------------|-----------------------------------------------------------------------------------------------|
| TBA           | 94-AP631-1 Inline joint for single core XLPE 120-400mm <sup>2</sup> , 36kV <sub>max</sub> CWA |

### **33kV<sub>phase</sub> Cable Terminations for XLPE**

| BR Cat Number | 3M Part nbr Description                                                               |
|---------------|---------------------------------------------------------------------------------------|
| TBA           | 94-EP630-2 QTIIL Single Core term for CWA 95-400mm <sup>2</sup> , 36kV <sub>max</sub> |

### **45kV<sub>phase</sub> Cable Terminations for XLPE**

| BR Cat Number | 3M Part nbr Description                                                                |
|---------------|----------------------------------------------------------------------------------------|
| TBA           | 95-EP631-2 QTIIL Single Core term for CWA 240-500mm <sup>2</sup> , 52kV <sub>max</sub> |

All these kits are under Network Rail Approval Qtrr 2 2005. New PADs nos will be issued when known.

### **Cable Management Systems, Lugs, Connectors & Tooling, up to 36kV**

| BR Cat Number | 3M Part nbr Description                                                                      |
|---------------|----------------------------------------------------------------------------------------------|
| 54/010635     | C7070C11W.16 Connector Compression Blocked hole Cu stranded Conductor 70mm                   |
| 54/010636     | C9595C11W.18 Connector Compression Blocked hole Cu stranded Conductor 95mm                   |
| 54/010637     | C120120C11W.20 Connector Compression Blocked hole Cu stranded Conductor 120mm                |
| 54/010638     | C150150C11W.22 Connector Compression Blocked hole Cu stranded Conductor 150mm                |
| 54/010639     | C185185C11W.25 Connector Compression Blocked hole Cu stranded Conductor 185mm                |
| 54/010640     | C150150A11W.25 Connector Compression Blocked hole Alu stranded Conductor 150mm               |
| 54/010641     | C185185A11W.28 Connector Compression Blocked hole Alu stranded Conductor 185mm               |
| 54/010642     | C240240A11W.32 Connector Compression Blocked hole Alu stranded Conductor 240mm               |
| 54/010643     | C300300A11W.34 Connector Compression Blocked hole Alu stranded Conductor 300mm               |
| 54/010644     | C240185B11W.32/25 Connector Compression Blocked hole Bimetallic stranded Conductor 240-185mm |
| 54/010645     | C300185B11W.34/25 Connector Compression Blocked hole Bimetallic stranded Conductor 300-185mm |
| 54/039212     | L150B11W.25 Lug Compression Bimetallic Waterblocked Alu Stranded Conductor 150mm             |
| 54/039213     | L185B11W.28 Lug Compression Bimetallic Waterblocked Alu Stranded Conductor 185mm             |
| 54/039214     | L240B11W.32 Lug Compression Bimetallic Waterblocked Alu Stranded Conductor 240mm             |
| 54/039215     | L300B11W.34 Lug Compression Bimetallic Waterblocked Alu Stranded Conductor 300mm             |
| 39/069238     | EP1 Crimping tool extendable handles, for Cu 6-240mm, and Alu 16-300mm                       |
| 39/013044     | A95/120-22 Die set for 95 & 120mm Alu                                                        |
| 39/013046     | A185-28 Die set for 185mm Alu                                                                |



WWW.CABLEJOINTS.CO.UK  
**THORNE & DERRICK UK**  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK

|           |                                                   |
|-----------|---------------------------------------------------|
| 39/013047 | A240-32 Die set for 240mm Alu                     |
| 39/013048 | A300-34 Die set for 300mm Alu                     |
| 39/013049 | C70-16 Die set for 70mm Cu                        |
| 39/013051 | C95-18 Die set for 95mm Cu                        |
| 39/013052 | C120-20 Die set for 120mm Cu                      |
| 39/013053 | C150-22 Die set for 150mm Cu                      |
| 39/013054 | C185-25 Die set for 185mm Cu                      |
| 54/039216 | L70C11W.16 Lug Compression Cu Waterblocked 70mm   |
| 54/039217 | L95C11W.18 Lug Compression Cu Waterblocked 95mm   |
| 54/039218 | L120C11W.20 Lug Compression Cu Waterblocked 120mm |
| 54/039219 | L150C11W.22 Lug Compression Cu Waterblocked 150mm |
| 54/039220 | L185C11W.25 Lug Compression Cu Waterblocked 185mm |
| 54/039221 | L240C11W.28 Lug Compression Cu Waterblocked 240mm |

### **Cable Joints & Accessories for Signalling and Telephone**

| BR Cat Number | 3M Part nbr Description                                        |
|---------------|----------------------------------------------------------------|
| 54/015632     | 99-D1 Jointing Kit for Pilot/Communication Cable 8-26mm OD     |
| 54/015656     | 99-D2 Jointing Kit for Pilot/Communication Cable 14-32mm OD    |
| 54/015659     | 99-D3 Jointing Kit for Pilot/Communication Cable 23-37mm OD    |
| 54/015661     | 99-D4 Jointing Kit for Pilot/Communication Cable 28-51mm OD    |
| 54/035007     | 99-D5 Jointing Kit for Pilot/Communication Cable 33-60mm OD    |
| 54/008164     | E9MB Scotchlok Crimping Tool                                   |
| 54/012638     | U1B Scotchlok Crimp Connector Paired Solid Conductor 0.9-1.3mm |
| 54/012633     | UY Scotchlok Crimp Connector Through Solid Conductor 0.4-0.6mm |
| 54/012634     | UR Scotchlok Crimp Connector Through Solid Conductor 0.4-0.9mm |
| 54/012636     | UG Scotchlok Crimp Connector Tee Solid Conductor 0.4-0.9mm     |
| 54/012637     | U1R Scotchlok Crimp Connector Paired Solid Conductor 0.5-0.9mm |

### **Earth Continuity for Armoured Cables**

| BR Cat Number | 3M Part nbr Description                                           |
|---------------|-------------------------------------------------------------------|
| 54/037040     | AC1 Armour Continuity Kit 8-13mm OD                               |
| 54/037041     | AC2 Armour Continuity Kit 13.1-19mm OD                            |
| 54/037042     | AC3 Armour Continuity Kit 25-19mm OD                              |
| 54/037043     | AC4 Armour Continuity Kit 25.1-32mm OD                            |
| 54/037044     | AC5 Armour Continuity Kit 32.1-38mm OD                            |
| 54/037045     | AC6 Armour Continuity Kit 38.1-44mm OD                            |
| 54/037046     | AC8 Armour Continuity Kit 48.1-54mm OD                            |
| 54/037047     | ACC26 Copper Earth Bonding 16mm x 2.6mm for use with AC Kit Range |
| 54/069241     | JO20 Tool for use with AC and ACC Kits                            |

Note, a ref. BR-99-Dx equals the 99-Dx series kit supplied with the appropriate AC kit. Network Rail insist that all 99 series kits are earthed with the AC screen.

### **Wire Marking Systems**

| BR Cat Number | 3M Part nbr Description                                                  |
|---------------|--------------------------------------------------------------------------|
| 39/013057     | STD0-9 Scotchcode Wire Marker Dispenser Filled Marker 0-9 540 Characters |
| 54/073037     | SDR0 Scotchcode Tape Wire Marker Number 0                                |
| 54/073038     | SDR1 Scotchcode Tape Wire Marker Number 1                                |



|           |                                           |
|-----------|-------------------------------------------|
| 54/073039 | SDR2 Scotchcode Tape Wire Marker Number 2 |
| 54/073040 | SDR3 Scotchcode Tape Wire Marker Number 3 |
| 54/073041 | SDR4 Scotchcode Tape Wire Marker Number 4 |
| 54/073042 | SDR5 Scotchcode Tape Wire Marker Number 5 |
| 54/073043 | SDR6 Scotchcode Tape Wire Marker Number 6 |
| 54/073044 | SDR7 Scotchcode Tape Wire Marker Number 7 |
| 54/073046 | SDR8 Scotchcode Tape Wire Marker Number 8 |
| 54/073047 | SDR9 Scotchcode Tape Wire Marker Number 9 |
| 54/073048 | SDR+ Scotchcode Tape Wire Marker Symbol + |
| 54/073049 | SDR- Scotchcode Tape Wire Marker Symbol - |
| 54/073011 | SDRA Scotchcode Tape Wire Marker Letter A |
| 54/073012 | SDRB Scotchcode Tape Wire Marker Letter B |
| 54/073013 | SDRC Scotchcode Tape Wire Marker Letter C |
| 54/073014 | SDRD Scotchcode Tape Wire Marker Letter D |
| 54/073015 | SDRE Scotchcode Tape Wire Marker Letter E |
| 54/073016 | SDRF Scotchcode Tape Wire Marker Letter F |
| 54/073017 | SDRG Scotchcode Tape Wire Marker Letter G |
| 54/073018 | SDRH Scotchcode Tape Wire Marker Letter H |
| 54/073019 | SDRI Scotchcode Tape Wire Marker Letter I |
| 54/073020 | SDRJ Scotchcode Tape Wire Marker Letter J |
| 54/073021 | SDRK Scotchcode Tape Wire Marker Letter K |
| 54/073022 | SDRL Scotchcode Tape Wire Marker Letter L |
| 54/073023 | SDRM Scotchcode Tape Wire Marker Letter M |
| 54/073024 | SDRN Scotchcode Tape Wire Marker Letter N |
| 54/073025 | SDRO Scotchcode Tape Wire Marker Letter O |
| 54/073026 | SDRP Scotchcode Tape Wire Marker Letter P |
| 54/073027 | SDRQ Scotchcode Tape Wire Marker Letter Q |
| 54/073028 | SDRR Scotchcode Tape Wire Marker Letter R |
| 54/073029 | SDRS Scotchcode Tape Wire Marker Letter S |
| 54/073030 | SDRT Scotchcode Tape Wire Marker Letter T |
| 54/073031 | SDRU Scotchcode Tape Wire Marker Letter U |
| 54/073032 | SDRV Scotchcode Tape Wire Marker Letter V |
| 54/073033 | SDRW Scotchcode Tape Wire Marker Letter W |
| 54/073034 | SDRX Scotchcode Tape Wire Marker Letter X |
| 54/073035 | SDRY Scotchcode Tape Wire Marker Letter Y |
| 54/073036 | SDRZ Scotchcode Tape Wire Marker Letter Z |

## Electrical Tapes and Accessories

| BR Cat Number | 3M Part nbr Description                                                         |
|---------------|---------------------------------------------------------------------------------|
| 55/022275     | Scotch 23 Self Amalgamating EPR 19mm x 9.5m                                     |
| 55/022297     | Scotch VM Vinyl Mastic Tape 38mm x 6m                                           |
| 55/121001     | Scotch 88 Insulating PVC, Black, Low temp outdoor applications, 38mm x 33m      |
| 55/121025     | Scotch 27 Insulating Glass Cloth pressure sensitive, 0.08mm x 12mm x 55m BS3924 |
| 55/121040     | Scotch 79 Insulating Glass Cloth pressure sensitive, 0.18mm x 12mm x 55m BS3924 |
| 55/121042     | Scotch 27 Insulating Glass Cloth pressure sensitive, 0.08mm x 6mm x 55m BS3924  |
| 55/121049     | Scotch 27 Insulating Glass Cloth pressure sensitive, 0.08mm x 12mm x 20m BS3924 |
| 55/121050     | Scotch 27 Insulating Glass Cloth pressure sensitive, 0.08mm x 15mm x 55m BS3924 |
| 55/121055     | Scotch 79 Insulating Glass Cloth pressure sensitive, 0.18mm x 25mm x 55m BS3924 |
| 55/121056     | Scotch 27 Insulating Glass Cloth pressure sensitive, 0.08mm x 25mm x 55m BS3924 |
| 55/022272     | Scotch 24 Electrical Shielding Tape Tinned Copper Braid Open Weave 25mm x 4.5m  |



WWW.CABLEJOINTS.CO.UK  
**THORNE & DERRICK UK**  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK

|           |                                                                                              |
|-----------|----------------------------------------------------------------------------------------------|
| 55/022271 | Scotch 33+ Insulating PVC, Black, Flame retardent All weather -18-105DegC<br>19mmx20m BS3924 |
| 55/022131 | Scotchfil Putty Rubber based Putty in tape form Use up to 1kV, BS3924, 38mm x 1.5m           |
| 55/022013 | Scotchwrap 50 All weather Corrosion protection tape, Black, 50mm x 30.5m                     |
| 55/021820 | Scotch 33 Electrical PVC Tape, Adhesive, Black. 0.18mm x 19mm x 55m                          |