



GrayBar

Cable Accessories

Section 4

Railway Cable Accessories

Graybar is a certified ISO 9001 organisation developing a wide variety of Heatshrinkable Cable Accessories and Point Heating Systems.

Cable Accessory Systems are supplied internationally for cabling networks in the Railway Industry.

Railway Product Development.

Working in conjunction with Railway Engineers, Graybar have introduced a combination of specialised kits suitable for the most hostile environmental conditions.

High Electrical Integrity and Protection against Impact Damage and Moisture Ingress combine to ensure high levels of Quality & Safety

Point Heating systems, Track Circuit accessories, Multicore signalling and Power cable jointing solutions and general Heatshrinkable S & T cable accessories are included in the range, as well as our new range of axle counting cable accessories.

Network Rail Parts and Description System (P.A.D.S)

Most of the Graybar kits supplied have associated P.A.D.S identification reference numbers.

Railway Cable Specifications.

Graybar Kits are suitable for cables manufactured to Railway Signalling Cable Specification RT/ E / PS/ 00005 & Unit Twin Copper Compound filled Telecommunication Cables Specification RT / E / PS / 00015

Graybar Technical Support

Highly experienced personnel are able to advice about any product application from our extensive range, or discuss development of new applications.

Product familiarisation presentations can be provided that are designed to help promote the required product installation skills.

Railway Cable Accessories

Cable Accessories - Section 4

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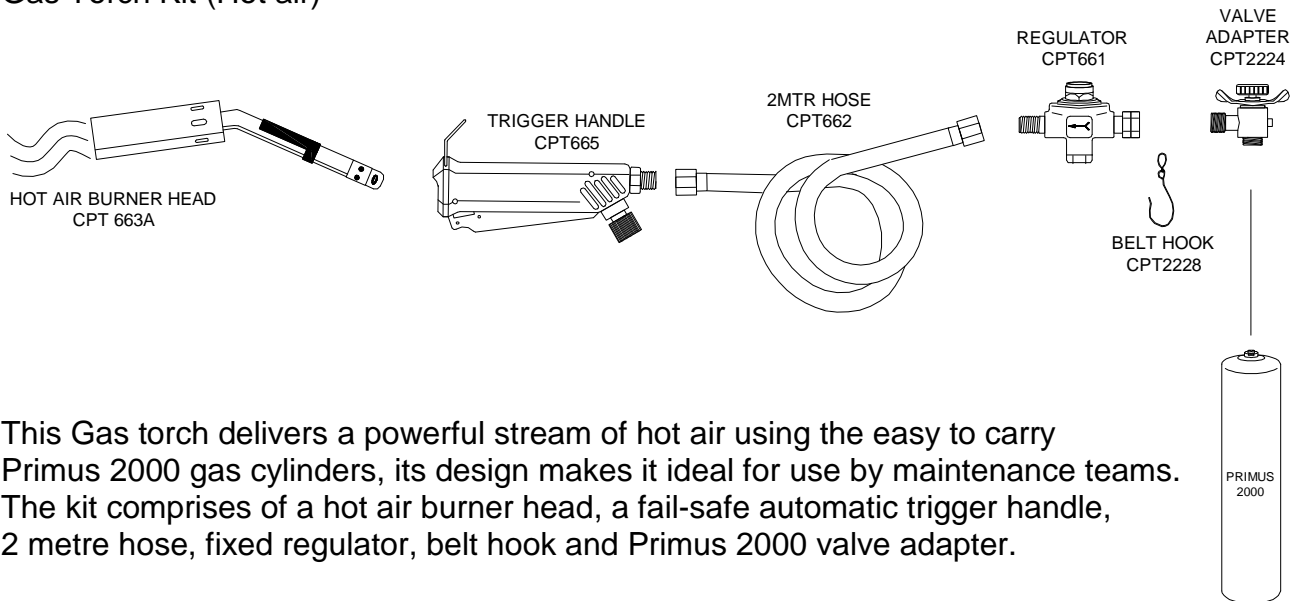
Railway Cable Accessories

GAS TORCH KITS

GrayBar Gas torch kits have been specially developed for use in the Railway environment. All GrayBar Gas Torch Kits are designed to provide the most efficient heat sources, ideal for use with Heatshrinkable kits both indoors and outdoors.

GBK1306: P.A.D.S. No **054/037088**

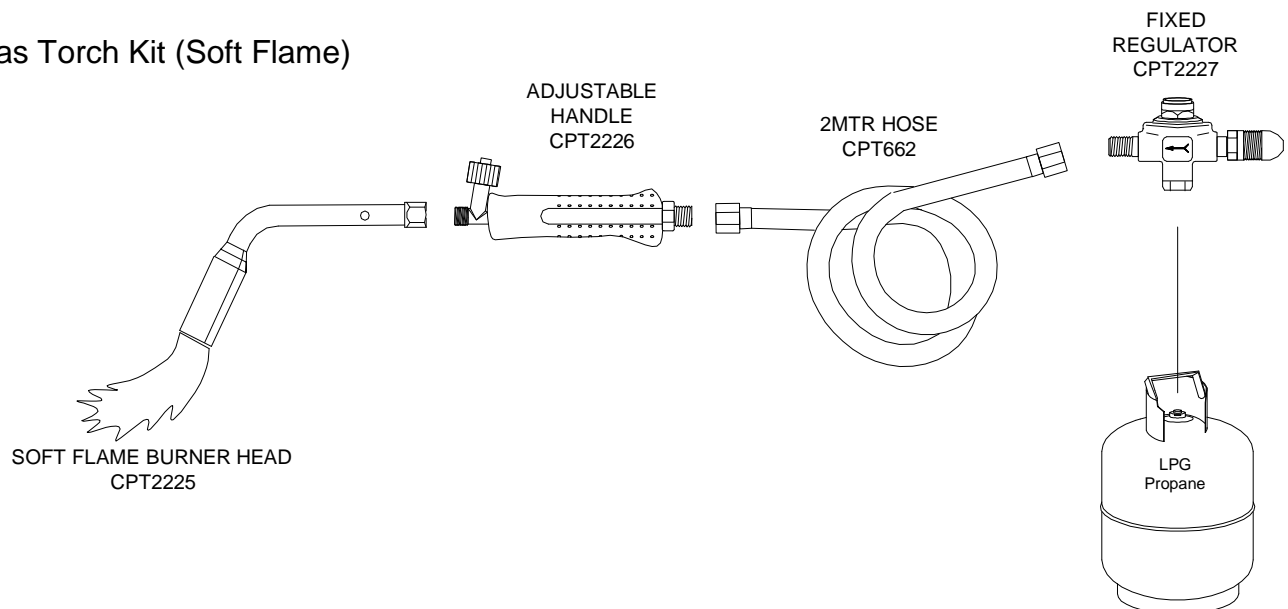
Gas Torch Kit (Hot air)



This Gas torch delivers a powerful stream of hot air using the easy to carry Primus 2000 gas cylinders, its design makes it ideal for use by maintenance teams. The kit comprises of a hot air burner head, a fail-safe automatic trigger handle, 2 metre hose, fixed regulator, belt hook and Primus 2000 valve adapter.

GBK1150: P.A.D.S No **040/017801**

Gas Torch Kit (Soft Flame)

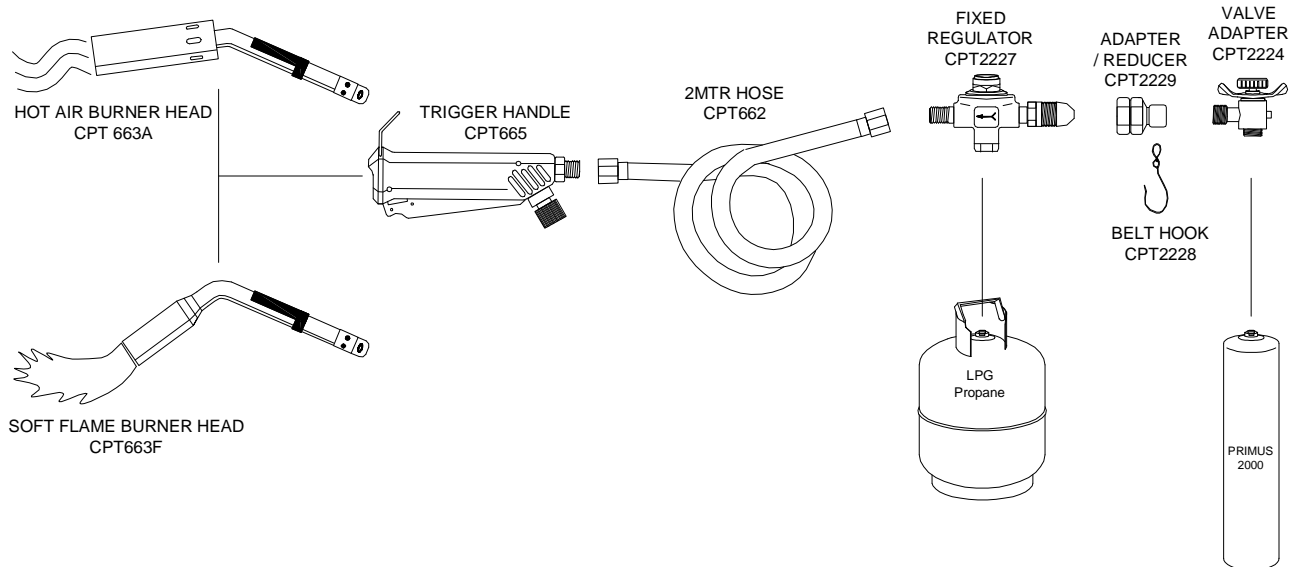


This gas torch delivers a soft flame from standard LPG/BPG gas bottles. It is ideal for use with Low and high Voltage Heatshrinkable jointing systems. The kit comprises of a soft flame burner head, an adjustable handle, 2 metre hose and regulator.

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GBK1738

Gas Torch Kit (Universal)

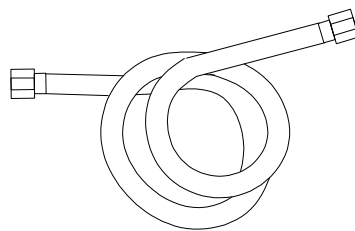


This Gas torch kit is designed for heatshrink jointing and can be used with Primus 2000 or standard LPG/BPG refillable steel containers.

The kit comprises of hot air and soft flame burner heads, a fail safe automatic trigger handle, 2 metre hose, fixed regulator, adapter/reducer, belt hook and primus 2000 valve adapter. The kit is complete with carrying case.

CPT 662: P.A.D.S No. 054/031016

Replacement 2 metre hose.

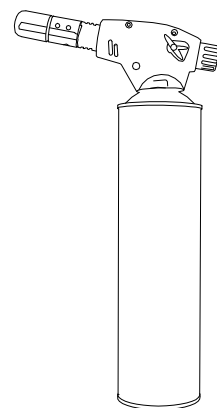


GBK1674

Gas Torch Kit with Disposable Gas Cylinders.
This is a low cost gas torch system.

CPT1182

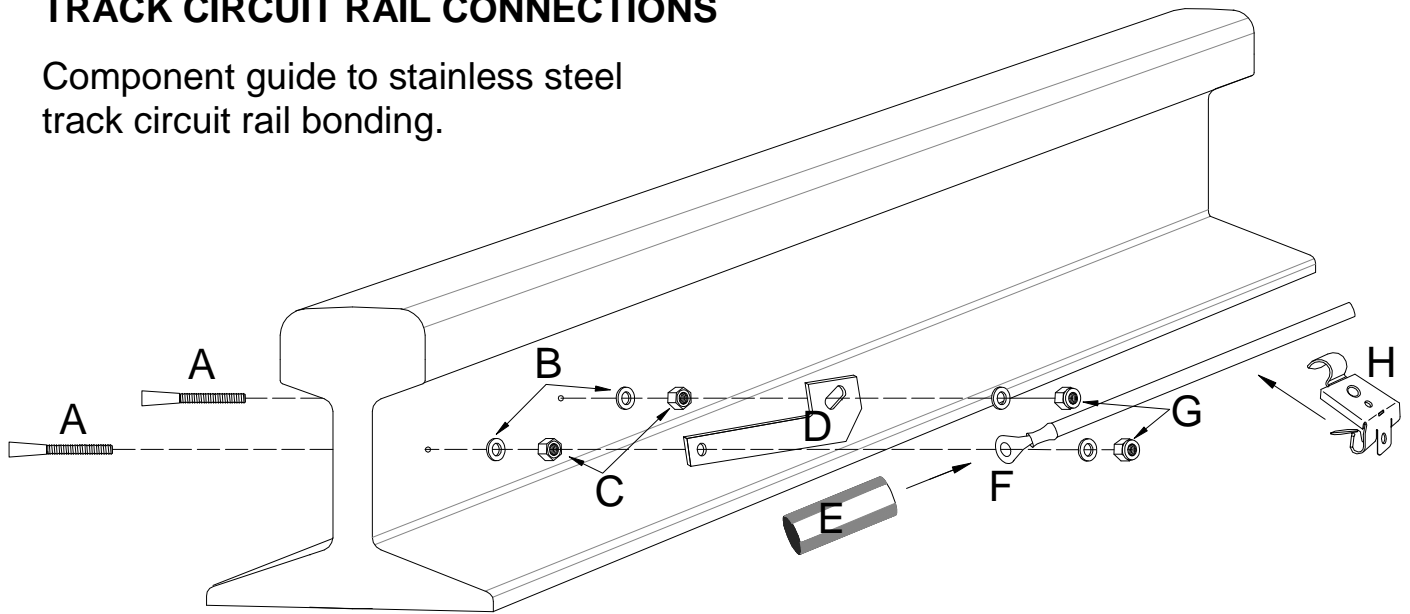
Spare Gas Cartridges for use with GBK1674



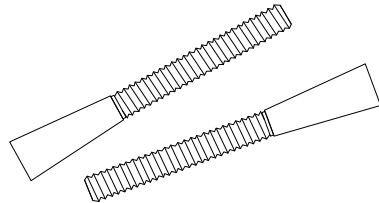
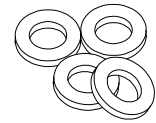
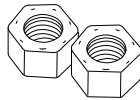
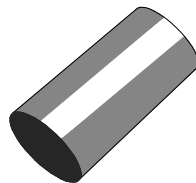
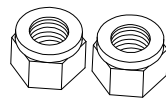
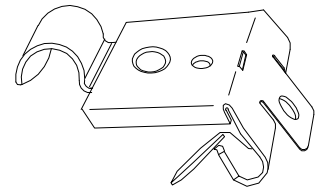
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TRACK CIRCUIT RAIL CONNECTIONS

Component guide to stainless steel track circuit rail bonding.



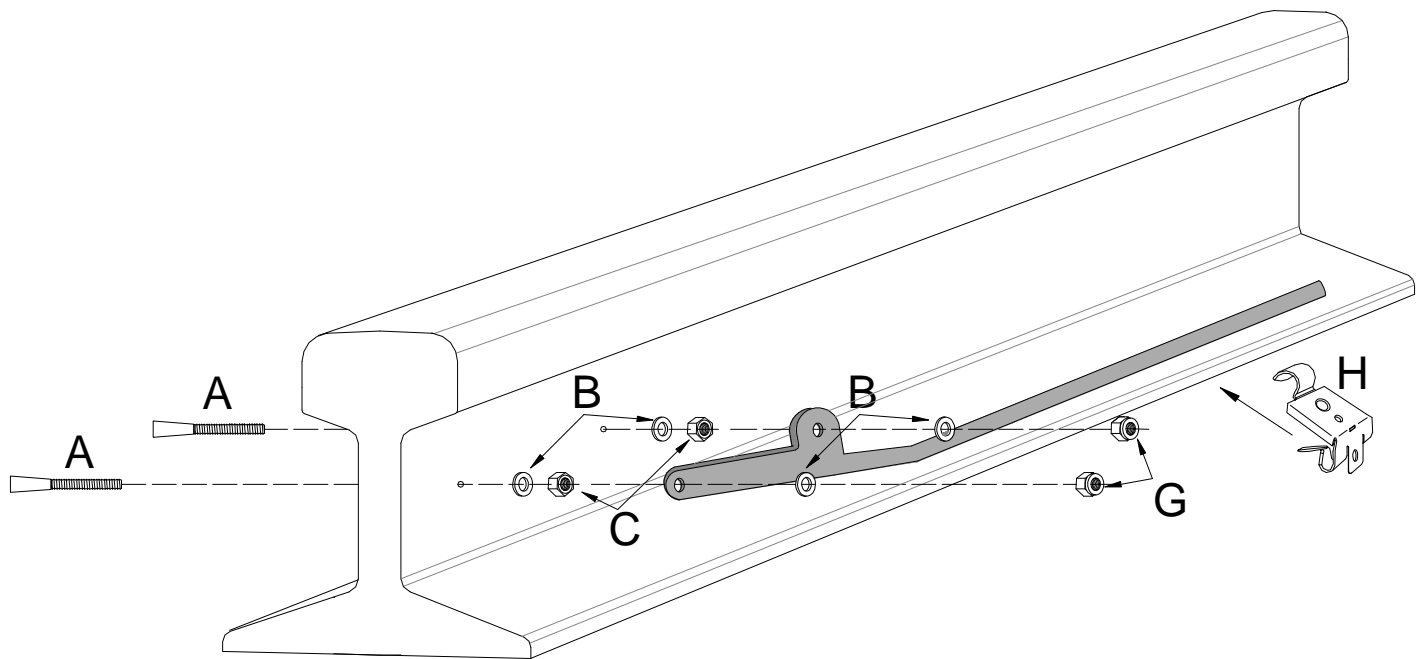
| Components Letter Code | P.A.D.S. Ref. No. | GrayBar Part No. | Components |
|------------------------|---|--|--|
| A | 086/044013 | CPT 049 | Taper Pin, Stainless Steel, M6 (PK10) |
| B | 003/190825 | CPT 051 | Washer, Stainless Steel, M6 (PK100) |
| C | 003/175013 | CPT 052 | Nut, Stainless Steel, M6 (PK100) |
| D | 086/043488 | CPT 050 | Rail Connection 'L' Bracket, Stainless Steel (PK10) |
| E | 055/120991 055/120989 | GBK 2001 GBK 1316 | Sealing/Support Tube 2.5mm ² (PK10) Sealing/Support Tube 35mm ² (PK10) |
| F | 054/119568 054/119492 | CPT 024 CPT 183 | Crimp Terminal, 2.5mm ² (PK100) Crimp Terminal, 35mm ² (PK10) |
| G | 003/179995 | CPT 053 | Self-locking Nut, Stainless Steel, M6 (PK100) |
| H | 086/043489 086/043498 ~ 086/043499 | GBK 1037 GBK 1030 GBK 1722 GBK 1099 | Cable Clip for Flat Bottom Rail, 12mm (PK10) Cable Clip for Flat Bottom Rail, 15mm (PK10) Cable Clip for Flat Bottom Rail, 18mm (PK10) Cable Clip for Flat Bottom Rail, 25mm (PK10) |

Railway Cable Accessories**TRACK CIRCUIT RAIL CONNECTION COMPONENTS****A** Taper Pin (2)**B** Washers (4)**C** Full Nuts (2)**D** 'L' Bracket**E** Sealing/Support Tube**F** Crimp Terminal**G** Self-Locking Nuts (2)**H** Cable Clip**COMPLETE TRACK CIRCUIT RAIL CONNECTION KITS**

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Size |
|-------------------|------------------|--|---|
| 086/044019 | GBK 2002 | Complete Track Circuit Rail Bond Kit (1 Fixing per kit) (Contains: A,B,C,D,E,F,G,H) | Single core 2.5mm ² (006/120130) C1 Type Cable |
| 086/044021 | GBK 1146 | Complete Track Circuit Rail Bond Kit Joint-less Aster or Type (TI.21) Track Circuits (1 Fixing per kit) (Contains: A,B,C,D,E,F,G,H) | Single core 35mm ² Track Circuit Cable |
| ~ | GBK 1268 | Complete Track Circuit Rail Bond Kit (1 Fixing per kit) (Contains: A,B,C,D,E,F,G,H) | Single core 70mm ² Track Circuit Cable |
| 020/003013 | GBK 1102 | Complete Track Circuit Rail Bond Kit With Pin Brazing Copper Bracket (1 Fixing per kit) (Contains: B,C,E,F,G & Bracket) | Single core 2.5mm ² Track Circuit Cable |

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TRACK CIRCUIT RAIL CONNECTION KITS FOR PRE-MOULDED ENDS

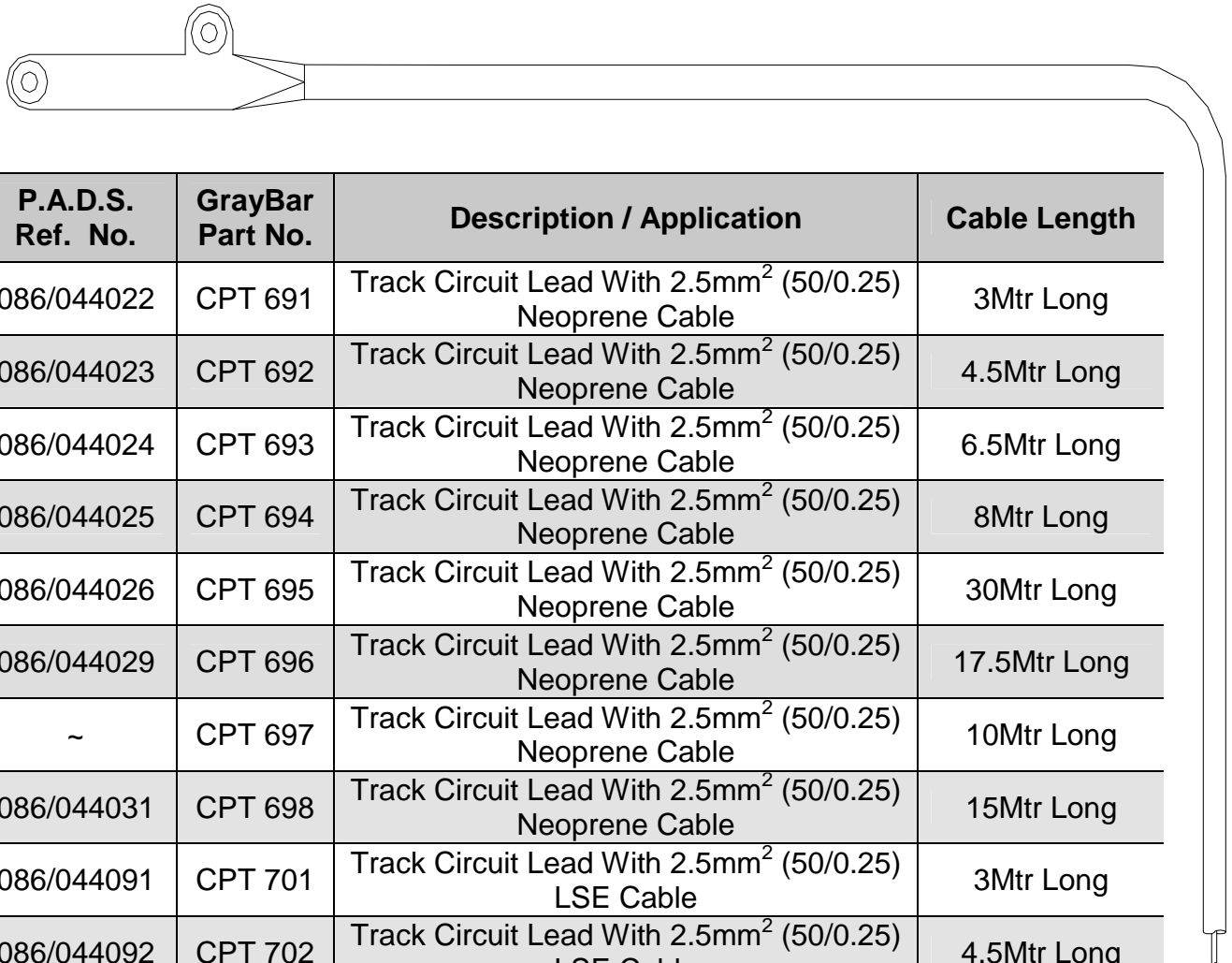


| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range |
|-------------------|------------------|---|-----------------------------------|
| 088/010037 | GBK 1299 | Track Circuit Maintenance Rail Bond Kit for Pre-moulded end Track circuit leads (5 Fixings per kit) | Single core 2.5mm ² |
| 086/044017 | GBK 1142 | Track Circuit Rail Bond Kit for Pre-moulded end Track circuit leads (1 Fixing per kit) | Single core 2.5mm ² |
| ~ | GBK 1244 | Track Circuit Rail Bond Kit for Pre-moulded end Track circuit leads (1 Fixing per kit) | Single core 70mm ² |
| 054/044029 | GBK 1144 | Track Circuit Rail Bond Kit for Pin Braze Bond Pre-moulded end Track circuit leads (1 Fixing per kit) | Single core 2.5mm ² |

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PRE-MOULDED TRACK CIRCUIT LEADS

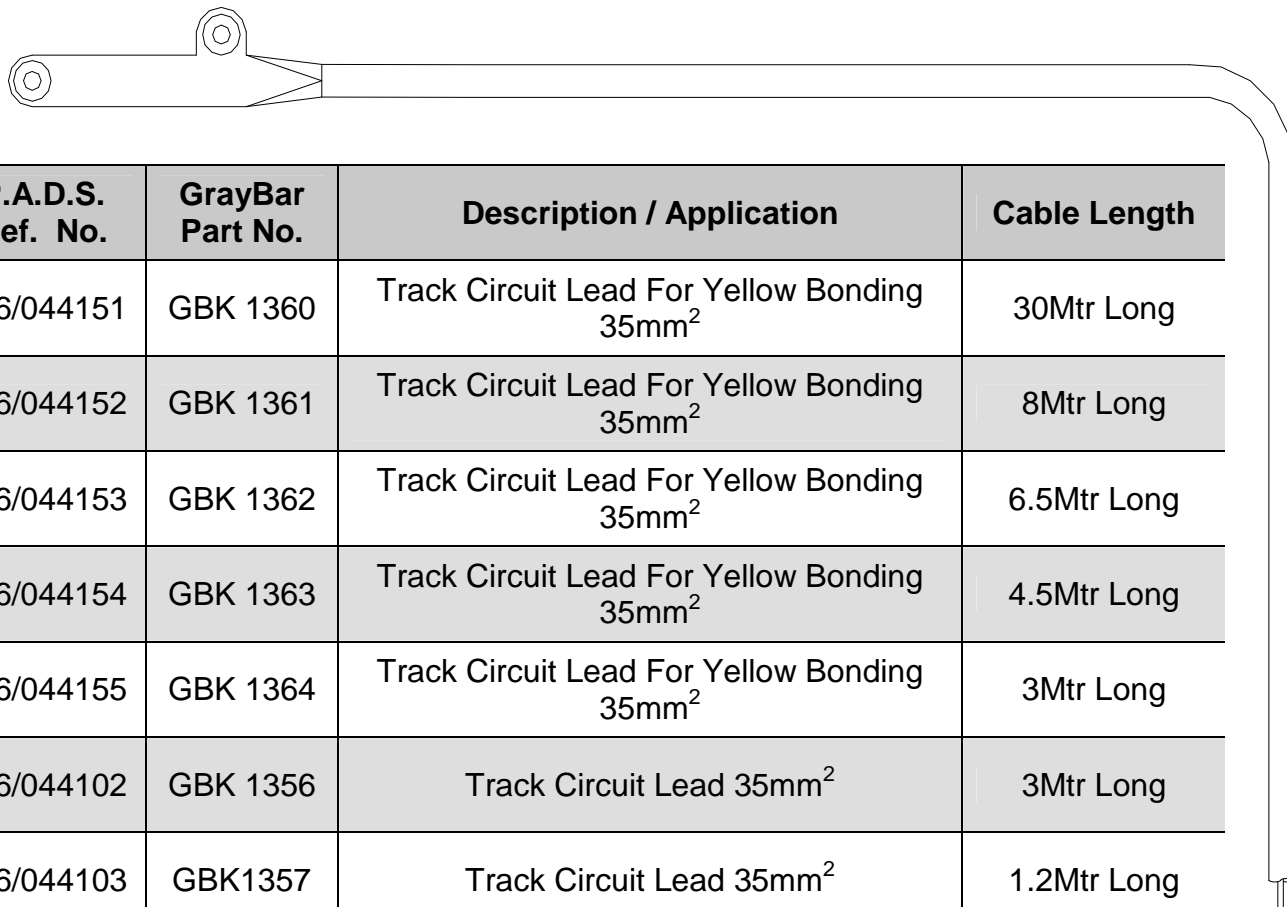
2.5mm² Neoprene Cable and 2.5mm² and 70mm² EPR LSE Cable.
Railway Group Standard GK/RT 0301 (May 1994)



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Length |
|-------------------|------------------|--|--------------|
| 086/044022 | CPT 691 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 3Mtr Long |
| 086/044023 | CPT 692 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 4.5Mtr Long |
| 086/044024 | CPT 693 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 6.5Mtr Long |
| 086/044025 | CPT 694 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 8Mtr Long |
| 086/044026 | CPT 695 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 30Mtr Long |
| 086/044029 | CPT 696 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 17.5Mtr Long |
| ~ | CPT 697 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 10Mtr Long |
| 086/044031 | CPT 698 | Track Circuit Lead With 2.5mm ² (50/0.25) Neoprene Cable | 15Mtr Long |
| 086/044091 | CPT 701 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 3Mtr Long |
| 086/044092 | CPT 702 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 4.5Mtr Long |
| 086/044093 | CPT 703 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 9.5Mtr Long |
| 086/044094 | CPT 704 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 6.5Mtr Long |
| 086/044095 | CPT 705 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 8Mtr Long |
| 086/044096 | CPT 706 | Track Circuit Lead With 2.5mm ² (50/0.25) LSE Cable | 30Mtr Long |
| 086/044101 | CPT 713 | Track Circuit Lead With 70mm ² Cable CCT Lead, Aster & TI21 | 3Mtr Long |
| 086/044100 | CPT 714 | Track Circuit Lead With 70mm ² Cable CCT Lead, Aster & TI21 | 4.8Mtr Long |

Railway Cable Accessories**PRE-MOULDED TRACK CIRCUIT LEADS**35mm² Cable.

Railway Group Standard GK/RT 0301 (May 1994)

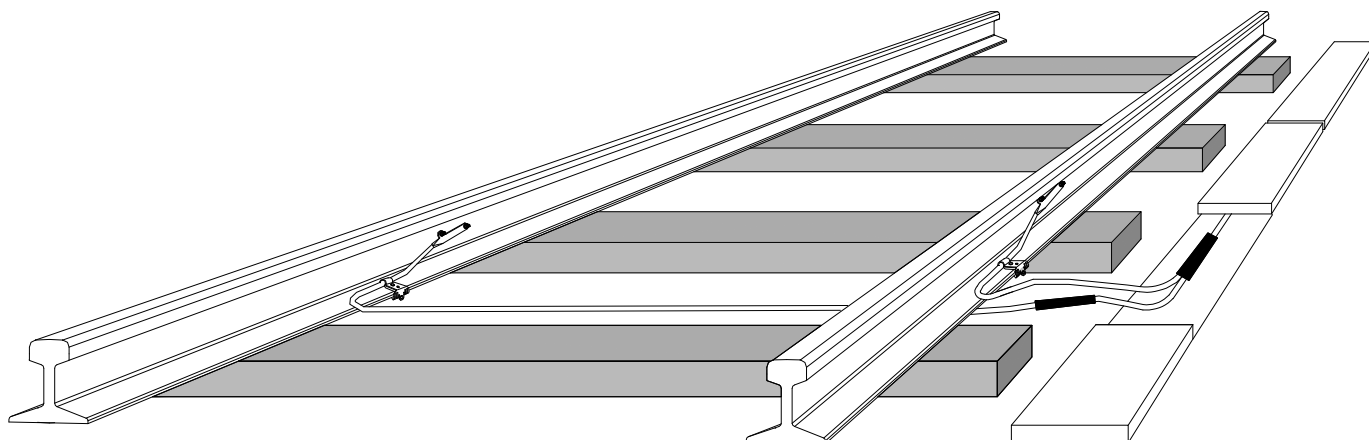






| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Length |
|--------------------------|-------------------------|--|---------------------|
| 086/044151 | GBK 1360 | Track Circuit Lead For Yellow Bonding 35mm ² | 30Mtr Long |
| 086/044152 | GBK 1361 | Track Circuit Lead For Yellow Bonding 35mm ² | 8Mtr Long |
| 086/044153 | GBK 1362 | Track Circuit Lead For Yellow Bonding 35mm ² | 6.5Mtr Long |
| 086/044154 | GBK 1363 | Track Circuit Lead For Yellow Bonding 35mm ² | 4.5Mtr Long |
| 086/044155 | GBK 1364 | Track Circuit Lead For Yellow Bonding 35mm ² | 3Mtr Long |
| 086/044102 | GBK 1356 | Track Circuit Lead 35mm ² | 3Mtr Long |
| 086/044103 | GBK1357 | Track Circuit Lead 35mm ² | 1.2Mtr Long |
| 086/044104 | GBK1358 | Track Circuit Lead 35mm ² | 1.65Mtr Long |
| 086/044105 | GBK 1359 | Track Circuit Lead 35mm ² | 2.9Mtr Long |

NOTE: PRE-MOULDED LEADS ARE AVAILABLE IN A VARIETY OF LENGTHS OR CAN BE SUPPLIED TO MEASURE IF REQUIRED

Railway Cable Accessories

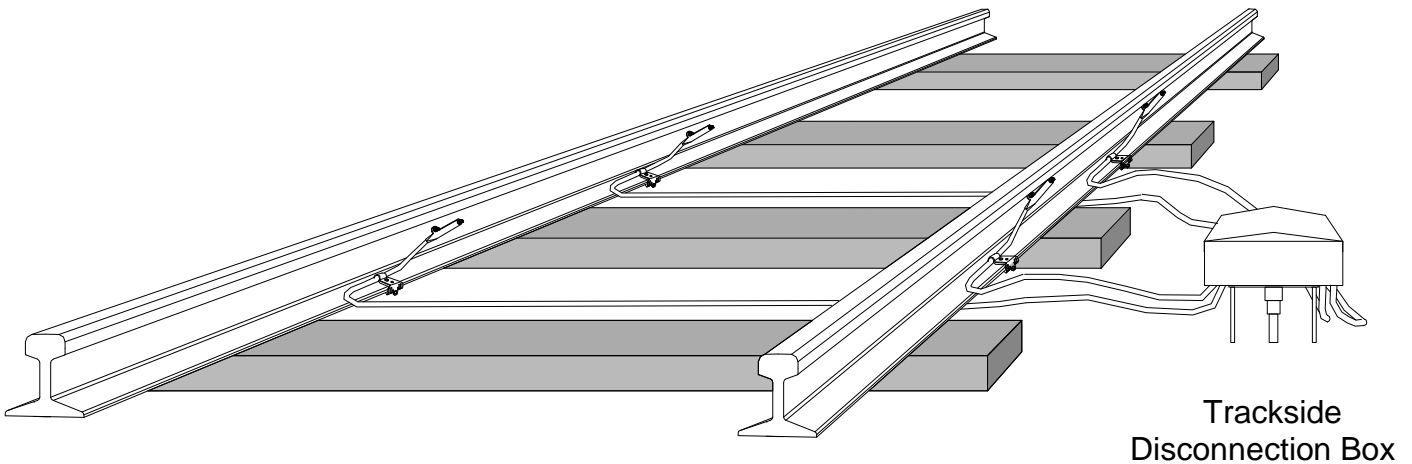
TRACK CIRCUIT CABLE JOINT KITS (Complete with crimp connectors)

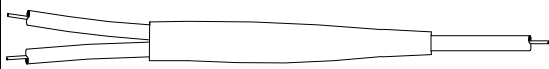





| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Joint Style | |
|----------------------|---------------------|--|---|----------------|
| | | | | |
| 054/015875 | GBK 2003 | Joint Kit For Single Core 2.5mm ² TC cable (10 Joints per Pack) | 2 x 006/120130 | 1 x 006/120130 |
| | | |  <p style="text-align: center;">Type C1 Cable</p> | |
| 054/037005 | GBK 2004 | Joint Kit For Single Core 10mm ² TC cable (10 Joints per Pack) | 1 x 006/120062 | 1 x 006/120062 |
| | | |  <p style="text-align: center;">Type B1 Cable</p> | |
| 054/015289 | GBK 2005 | Joint Kit For 2 x Single Core 2.5mm ² TC cable to 1 x 2 Core 2.5mm ² | 2 x 006/120130 | 1 x 006/120140 |
| | | |  <p style="text-align: center;">Type C1 to Type C2 Cables</p> | |
| 054/015873 | GBK 2006 | Joint Kit For 2 x Single Core 10mm ² TC cable to 1 x 2 Core 2.5mm ² | 2 x 006/120062 | 1 x 006/120140 |
| | | |  | |

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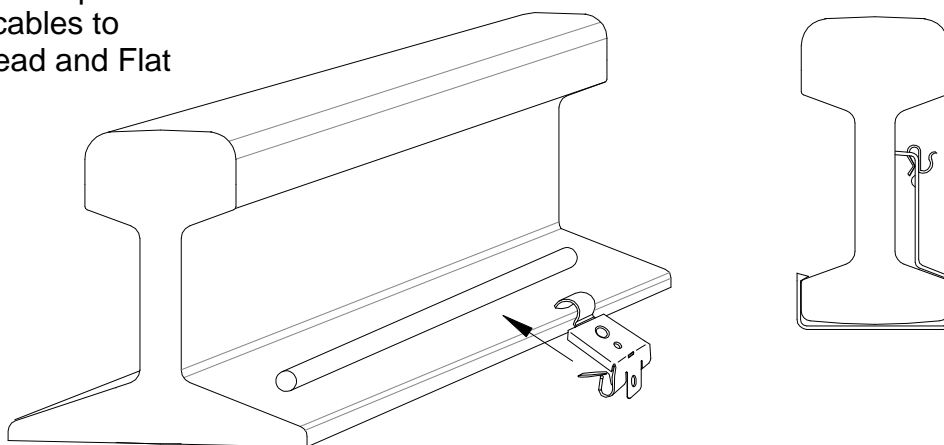
CABLE JOINTING KITS FOR DUPLICATED TRACK CIRCUIT. (Complete with crimp connectors)



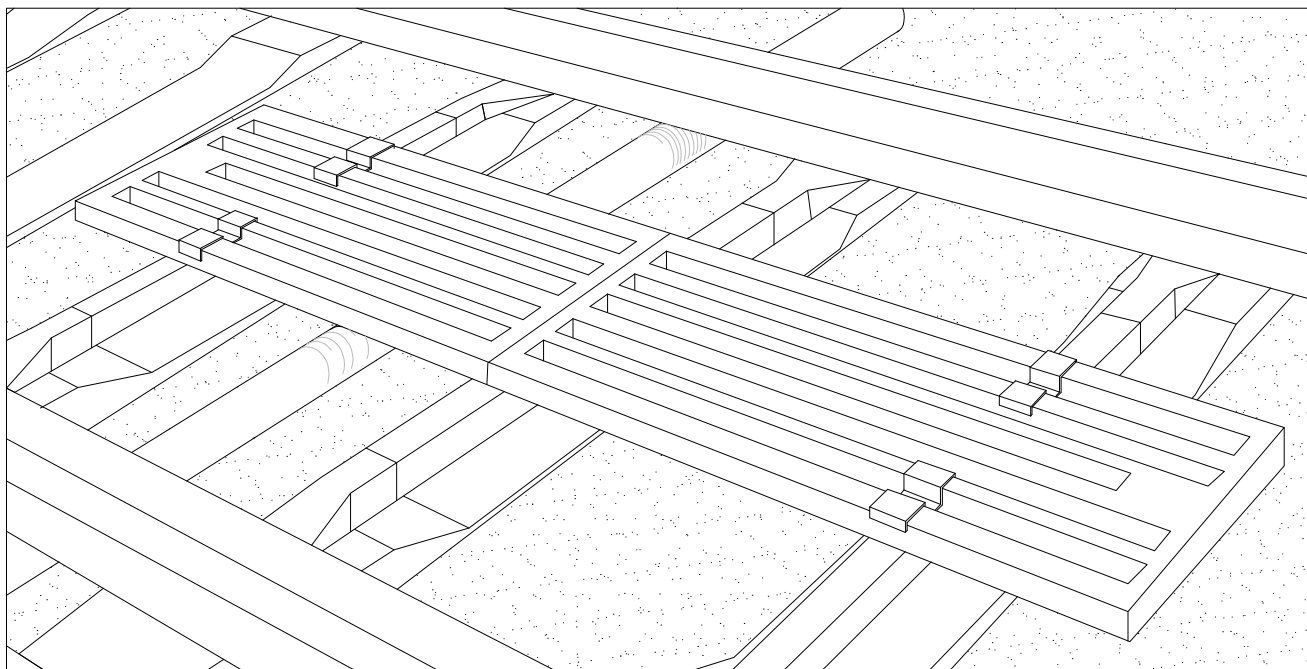
| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Joint Style | |
|----------------------|---------------------|--|--|----------------|
| 054/036101 | GBK 2061 | Joint Kit For Single Core 2.5mm ² TC cable to 2 x Single Core 2.5mm ² Cable | 2 x 006/120130 | 1 x 006/120130 |
| | | |  Type C1 Cable | |
| 054/036102 | GBK 2062 | Joint Kit For 4 x Single Core 2.5mm ² TC cable to 1 x 2 Core 2.5mm ² Cable | 4 x 006/120130 | 1 x 006/120140 |
| | | |  Type C1 to Type C2 Cable | |
| 054/036103 | GBK 2063 | Joint Kit For 4 x Single Core 2.5mm ² TC cable to 1 x 4 Core 2.5mm ² Cable | 4 x 006/120130 | 1 x 006/120141 |
| | | |  Type C1 to Type C2 Cable | |
| 054/036106 | GBK 2065 | Joint Kit For 2 x 2 Core 2.5mm ² TC cable to 1 x 4 Core 2.5mm ² Cable | 2 x 006/120140 | 1 x 006/120141 |
| | | |  Type C2 Cable | |

Railway Cable Accessories**RAIL CABLE FIXING CLIPS FOR RAILWAY APPLICATIONS.**

A wide range of cable clips for securely retaining cables to Network Rail Bullhead and Flat Bottom rail.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Dia. |
|-------------------|------------------|---|----------------------------------|
| 086/043498 | GBK 1030 | Cable Clip for 113lb Flat Bottom Rail (PK10) | 15mm |
| 086/043489 | GBK 1037 | Cable Clip for 113lb Flat Bottom Rail (PK10) | 12mm |
| 086/043499 | GBK 1099 | Cable/Hose Clip for 113lb Flat Bottom Rail (PK10) | 25mm |
| 086/043510 | GBK 1080 | Cable Clip for UIC60B/54B Flat Bottom Switch Rail (PK10) | 15mm |
| 086/044031 | GBK 1159 | Spring Clip Assembly for Fixing 1 Cable to Rail Type BS95BH Bullhead Rail (PK10) | 1 x 12mm E.G. 2.5mm ² |
| 086/044032 | GBK 1161 | Spring Clip Assembly Fixing 2 Cables to Rail Type BS95BH Bullhead Rail (PK10) | 2 x 12mm E.G. 2.5mm ² |
| 086/043511 | GBK1115 | Cable Clip for Docklands Light Rail and Network Rail Flat Bottom Rail Sections (PK10) | 1-3 x 2.5mm ² |
| ~ | CPT 480 | 'P' Clip (PK10) | 13mm |
| 086/044034 | CPT 398 | Double Hose Cable Assembly for Bullhead Rail (PK10) | 2 x 25mm |
| 086/044030 | GBK 1255 | Double Hose Cable Assembly for BS113lb Flat Bottom Rail (PK10) | 2 x 25mm |



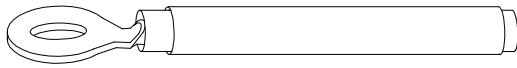

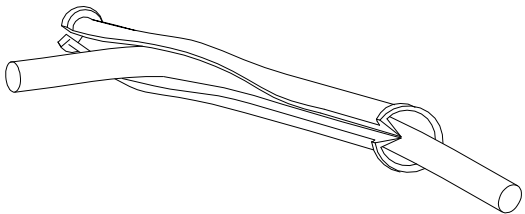
Railway Cable Accessories**TRAIN PROTECTION WARNING SYSTEM.
Heatshrinkable Accessories For T.P.W.S. Cable.**

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Size |
|------------------------------|-----------------------------|--|--|
| 054/037093 | GBK 1600 | Jointing Kit for Screened Twisted Pair Cable | 2 core 2.5mm ² (006/160086) Type C3, TPWS Cable |
| 054/037094 | GBK 1599 | Moisture Barrier Kit For T.P.W.S. Cable | 2 core 2.5mm ² (006/160086) |

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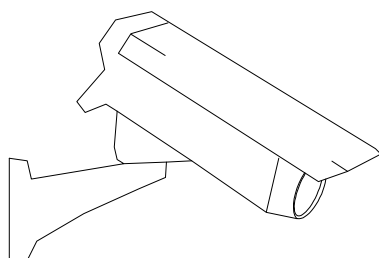
YELLOW IDENTIFICATION CABLE ACCESSORIES

Bonding Cable Identification Kits and Sleeves.

| P.A.D.S. Ref. No. | GrayBar Part No. | Description /Application | Joint Style / Cable Range |
|-------------------|------------------|---|--|
| 054/037092 | GBK 1276 | Yellow Heatshrinkable Bonding Cable Joint Kit (Inc. Connectors) |  <p>Single core 35mm² B1 Cable (006/120063)</p> |
| ~ | GBK 1264 | Yellow Heatshrinkable Bonding Cable Joint Kit (Ex. Connectors) |  <p>Single core 35mm² B1 Cable (006/120063)</p> |
| 086/043954 | GBK 1282 | Yellow Heatshrinkable Bonding Cable Sealing Kit (Inc. Lug) |  <p>Single core 35mm² Cable</p> |
| ~ | GBK 1271 | Yellow Heatshrinkable Bonding Cable Sealing Kit (Ex. Lug) |  <p>Single core 35mm² Cable</p> |
| 054/064087 | GBK 1614 | 15mm I/D Yellow Bonding Cable Identification Sleeve (Pack of 5) |  |
| 054/064088 | GBK 1615 | 25mm I/D Yellow Bonding Cable Identification Sleeve (Pack of 5) | |
| 054/064089 | GBK 1616 | 35mm I/D Yellow Bonding Cable Identification Sleeve (Pack of 5) | |

Railway Cable Accessories**DATA-LINK CABLE JOINTING KITS**
(Screened and un-screened)

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Size P.A.D.S No. |
|-------------------|------------------|--|---|
| 054/037079 | GBK 2018 | Joint kit for un-screened Data-link cable | 2 core 1.5mm ² (006/166065) |
| 054/015877 | GBK 2019 | Joint kit for screened Data-link cable | 2 core 1.5mm ² (006/167020) |
| 054/037070 | GBK 1138 | Moisture barrier kit for all Data-link cable | (006/166065 006/167020) |

CCTV CABLE JOINTING KITS

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application |
|-------------------|------------------|--|
| 054/035012 | GBK 1350 | CCTV Coaxial Type A to Camera Cable Joint Kit. |
| 054/015894 | GBK 2013 | CCTV Type A Coaxial Joint Kit. |

Railway Cable Accessories

LINESIDE MULTICORE SIGNALLING CABLE JOINTING KITS. (Complete with Approved crimp connectors)



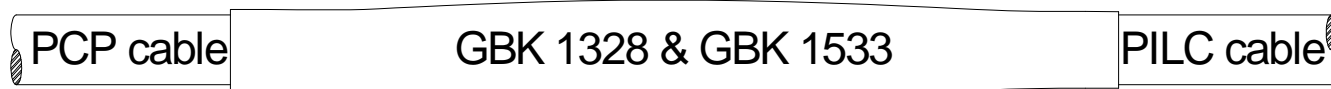
| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range / P.A.D.S No. |
|-------------------|------------------|--|---|
| 054/015870 | GBK 2007-12 | Lineside Multicore Jointing Kit for 7 to 12 core Cable | 0.75-1.5mm ² (Type B2 Cable) (006/120091, 006/120093, 006/120094, 006/120096, 006/120097) |
| 054/015871 | GBK 2007-19 | Lineside Multicore Jointing Kit for 19 core Cable | 0.75-1.5mm ² (Type B2 cable) (006/120099, 006/120100) |
| 054/015874 | GBK 2008-27 | Lineside Multicore Jointing Kit for 27 core Cable | 0.75-1.5mm ² (Type B2 Cable) (006/120102, 006/120103) |
| 054/015872 | GBK 2008-37 | Lineside Multicore Jointing Kit for 37 core Cable | 0.75-1.5mm ² (Type B2 Cable) (006/120105, 006/120106) |
| 054/037009 | GBK 2009-48 | Lineside Multicore Jointing Kit for 48 core Cable | 0.75-1.5mm ² (Type B2 Cable) (006/120108, 006/120109) |
| 054/015880 | GBK 2009-61 | Lineside Multicore Jointing Kit for 61 core Cable | 0.75-1.5mm ² (Type B2 Cable) (006/120108, 006/120109) |
| 054/037120 | GBK 1220 | Lineside Multicore Jointing Kit for 7 to 12 core Cable | 2.5mm ² (Type B2 Cable) (006/120092, 006/120095, 006/120098) |
| 054/037121 | GBK 1339 | Lineside Multicore Jointing Kit for 19 core Cable | 2.5mm ² (Type B2 cable) (006/120101) |
| 054/037122 | GBK 1344 | Lineside Multicore Jointing Kit for 27 core Cable | 2.5mm ² (Type B2 Cable) (006/120104) |
| 054/037123 | GBK 1278 | Lineside Multicore Jointing Kit for 37 core Cable | 2.5mm ² (Type B2 cable) (006/120107) |
| 054/037124 | GBK 1279 | Lineside Multicore Jointing Kit for 48 core Cable | 2.5mm ² (Type B2 cable) (006/120110) |

(Excluding crimp connectors)

| | | | |
|------------|----------|---|----------------------|
| 054/037008 | GBK 2010 | Lineside Multicore Jointing Kit (similar to GBK 2007) | 1/0.85mm to 1/1.53mm |
| 054/015746 | GBK 2011 | Lineside Multicore Jointing Kit (similar to GBK 2008) | 1/0.85mm to 1/1.53mm |
| 054/037011 | GBK 2012 | Lineside Multicore Jointing Kit (similar to GBK 2009) | 1/0.85mm to 1/1.53mm |

Railway Cable Accessories**SPECIAL LINESIDE MULTICORE CABLE JOINTING KITS.**

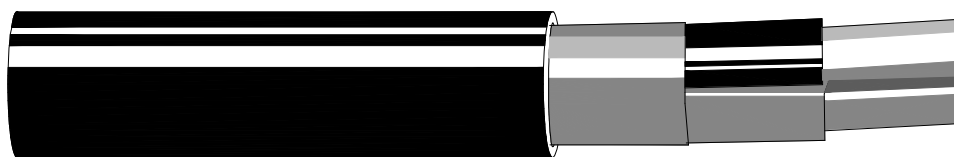
Standard PCP signalling cable jointed to paper insulated and lead covered signalling cable.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range / Type |
|--------------------------|-------------------------|---|--|
| 054/015848 | GBK 1328 | Transition Joint Kit for 19 core Cable | 0.75 – 1.5mm ² Type B2 Cable (006/120100) |
| 054/015846 | GBK 1533 | Transition Joint Kit for 37 core Cable | 0.75 – 1.5mm ² Type B2 Cable (006/120106) |
| 054/015889 | GBK 1365 | Induction Loop Joint Kit for 37 core Cable | 0.75-1.5mm ² Type B2 Cable (006/120105) |
| 054/037114 | GBK 1090 | Special Lineside Signalling Cable Joint kit for 300/500 Volt 2 Core Cable | 1 - 1.5mm ² Cartridge Point Heater Cable (055/026961) |

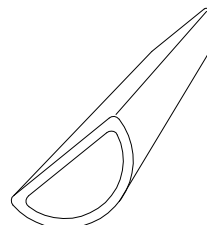
Railway Cable Accessories

2 CORE UNARMoured POWER CABLE JOINT KITS
 600/1000-Volt Solid Sectorial Shaped Aluminium to BR 880
 (All kits complete with Crimp Type Aluminium connectors)



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application |
|-------------------|------------------|--|
| 054/037095 | GBK 1083D | Jointing Kit for 2 Core 16mm ² 'D' Shape Aluminium Conductors |
| 054/037096 | GBK 1084D | Jointing Kit for 2 Core 25mm ² 'D' Shape Aluminium Conductors |
| 054/037097 | GBK 1085D | Jointing Kit for 2 Core 35mm ² 'D' Shape Aluminium Conductors |
| 054/037098 | GBK 1086D | Jointing Kit for 2 Core 50mm ² 'D' Shape Aluminium Conductors |
| 054/037099 | GBK 1087D | Jointing Kit for 2 Core 70mm ² 'D' Shape Aluminium Conductors |
| 054/037100 | GBK 1088D | Jointing Kit for 2 Core 95mm ² 'D' Shape Aluminium Conductors |

2 CORE SOLID SECTORIAL ALUMINIUM CRIMP CONNECTORS



| | | |
|------------|---------|--|
| 054/114100 | CPT 015 | 2 Core 16mm ² Aluminium Sectorial 'D' Shape Connector |
| 054/114102 | CPT 016 | 2 Core 25mm ² Aluminium Sectorial 'D' Shape Connector |
| 054/114103 | CPT 017 | 2 Core 35mm ² Aluminium Sectorial 'D' Shape Connector |
| 054/114104 | CPT 018 | 2 Core 50mm ² Aluminium Sectorial 'D' Shape Connector |
| 054/114106 | CPT 019 | 2 Core 70mm ² Aluminium Sectorial 'D' Shape Connector |
| 054/114108 | CPT 020 | 2 Core 95mm ² Aluminium Sectorial 'D' Shape Connector |

NOTE: These connectors are supplied in packs of ten (10).

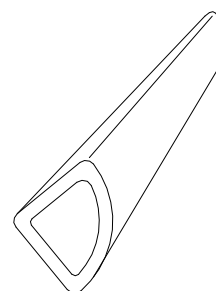
Railway Cable Accessories

4 CORE POWER CABLE JOINT KITS
 600/1000-Volt Solid Sectorial Shaped Aluminium
 (All kits complete with Aluminium connectors)



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application |
|-------------------|------------------|---|
| 054/037101 | GBK 2087D | Jointing Kit for 4 Core 70mm ² Aluminium Sector Conductors |
| 054/037102 | GBK 2088D | Jointing Kit for 4 Core 95mm ² Aluminium Sector Conductors |

**4 CORE SOLID SECTORIAL
 ALUMINIUM CRIMP CONNECTORS**



| | | |
|------------|----------|---|
| 054/114122 | CPT 1463 | 4 Core 70mm ² Aluminium Sectorial Connector (006/151469) |
| 054/114124 | CPT 021 | 4 Core 95mm ² Aluminium Sectorial Connector (006/151494) |

NOTE: These connectors are supplied in packs of twenty (20).

Railway Cable Accessories

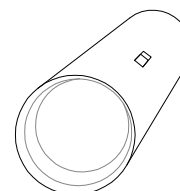
2 CORE POWER CABLE JOINT KITS

600/1000-Volt Stranded Copper
(All kits complete with Copper connectors)



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application |
|-------------------|------------------|--|
| 054/037012 | GBK 1081C | Jointing Kit for 2 Core 6mm ² Copper Conductors |
| 054/015857 | GBK 1082C | Jointing Kit for 2 Core 10mm ² Copper Conductors |
| ~ | GBK 1083C | Jointing Kit for 2 Core 16mm ² Copper Conductors |
| ~ | GBK 1084C | Jointing Kit for 2 Core 25mm ² Copper Conductors |
| 054/015891 | GBK 1085C | Jointing Kit for 2 Core 35mm ² Copper Conductors |
| 054/015892 | GBK 1086C | Jointing Kit for 2 Core 50mm ² Copper Conductors |
| 054/015878 | GBK 1087C | Jointing Kit for 2 Core 70mm ² Copper Conductors |
| 054/015879 | GBK 1088C | Jointing Kit for 2 Core 95mm ² Copper Conductors |
| ~ | GBK 1089C | Jointing Kit for 2 Core 120mm ² Copper Conductors |

TUBULAR COPPER CRIMP CONNECTORS



| | | |
|---|---------|--|
| ~ | CPT 010 | 10mm ² Copper Connectors 006/120083 Cable |
| ~ | CPT 011 | 35mm ² Copper Connectors 006/120084 Cable |
| ~ | CPT 469 | 50mm ² Copper Connectors |
| ~ | CPT 466 | 70mm ² Copper Connectors 006/120085 Cable |
| ~ | CPT 012 | 95mm ² Copper Connectors 006/120086 Cable |
| ~ | CPT 467 | 120mm ² Copper Connectors |
| ~ | CPT 468 | 150mm ² Copper Connectors |

NOTE: These connectors are supplied in packs of ten (10).

Railway Cable Accessories

4 CORE UNARMoured POWER CABLE JOINT KITS

600/1000-Volt Stranded Copper Cable

(All kits complete with Copper connectors)



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application |
|-------------------|------------------|--|
| 054/036119 | GBK 2081C | Jointing Kit for 4 Core 6mm ² Copper Conductors |
| 054/036120 | GBK 2082C | Jointing Kit for 4 Core 10mm ² Copper Conductors |
| 054/036121 | GBK 2083C | Jointing Kit for 4 Core 16mm ² Copper Conductors |
| 054/036122 | GBK 2084C | Jointing Kit for 4 Core 25mm ² Copper Conductors |
| 054/036123 | GBK 2085C | Jointing Kit for 4 Core 35mm ² Copper Conductors |
| 054/036124 | GBK 2086C | Jointing Kit for 4 Core 50mm ² Copper Conductors |
| 054/036125 | GBK 2087C | Jointing Kit for 4 Core 70mm ² Copper Conductors |
| 054/036126 | GBK 2088C | Jointing Kit for 4 Core 95mm ² Copper Conductors |
| 054/036127 | GBK 2089C | Jointing Kit for 4 Core 120mm ² Copper Conductors |

2 CORE AND 4 CORE 600/1000V POWER CABLE JOINT KITS

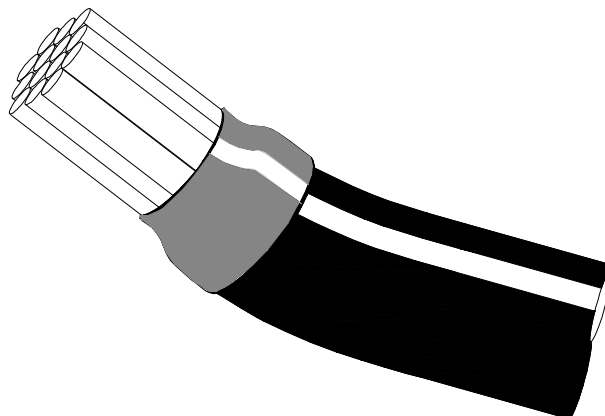
(Without Connectors)

| | | | |
|------------|----------|-------------------------------|---------------------------------|
| 054/015759 | GBK 2015 | 2 core Power Cable Joint kit, | 10 – 35mm ² B2 Cable |
| 054/015886 | GBK 2016 | 2 core Power Cable joint kit, | 70 – 95mm ² B2 Cable |
| 054/036100 | GBK 1137 | 4 core Power Cable Joint kit, | 70 - 95mm ² B2 Cable |

NOTE: User must provide appropriate crimp connectors.

Railway Cable Accessories

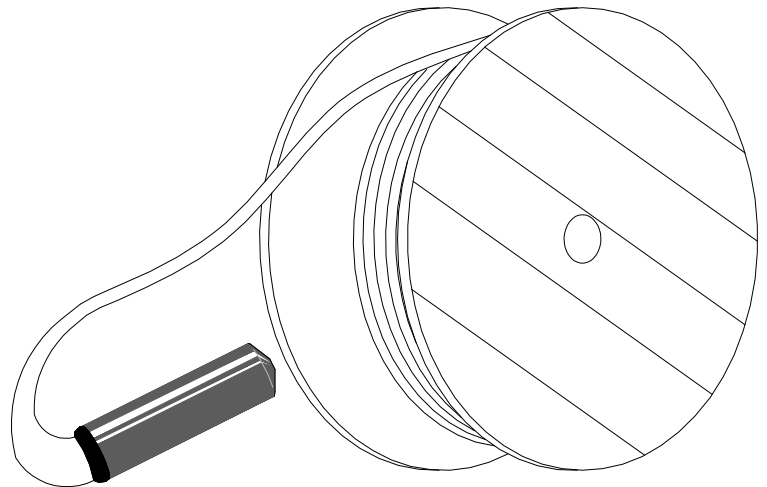
**HEATSHRINKABLE MOISTURE BARRIER
SHROUD & SEAL SUPPORT KITS**
Suitable for Power, Signalling and Telecom cables.





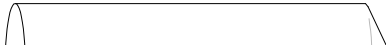



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Style / Range |
|------------------------------|-----------------------------|---|--|
| 054/037070 | GBK 1138 | Moisture barrier Shroud and Seal Support (PK24) | 6mm to 14mm Dia. |
| 054/037052 | GBK 1139 | Moisture barrier Shroud and Seal Support (PK24) | 13mm to 24mm Dia. |
| 054/037053 | GBK 1140 | Moisture barrier Shroud and Seal Support (PK24) | 20mm to 37mm Dia. |
| 054/037054 | GBK 1141 | Moisture barrier Shroud and Seal Support (PK24) | 27mm to 48mm Dia. |
| 054/037094 | GBK 1599 | Moisture barrier Shroud and Seal Support (PK24) | TPWS Screened Twisted Pair. 2 core, 2.5mm ² |
| 054/037144 | GBK 1531 | Cable Gland Support and Sealing Collar (PK10) | For Fibre Optic Cables 10-18mm Dia. |

Railway Cable Accessories**HEATSHRINKABLE CABLE END SEALING CAPS**

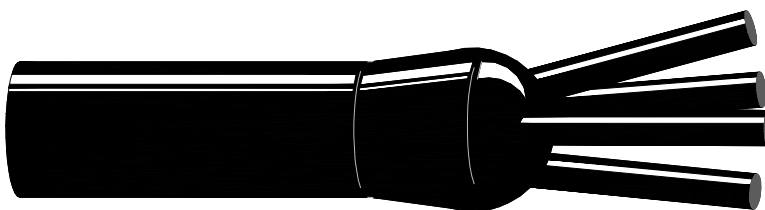
Exposed cable ends will allow moisture to seep into the cable unless the end is suitably sealed. GrayBar Heatshrinkable cable end sealing caps are manufactured from a robust moulded material containing a meltable internal sealant, which is suitable for the railway environment and will prevent ingress of moisture into any type of cables, either in storage or awaiting final termination to the equipment.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range |
|--------------------------|-------------------------|----------------------------------|---|
| 054/010716 | GB 1612 | Cable End Cap |  4mm to 10mm |
| 054/012054 | GB 1613 | Cable End Cap |  9mm to 18 mm |
| 054/012051 | GB 1614 | Cable End Cap |  15mm to 35mm |
| 054/012052 | GB 1615 | Cable End Cap |  25mm to 60mm |
| 054/012053 | GB 1617 | Cable End Cap |  32mm to 72mm |
| 054/012055 | GB 1616 | Cable End Cap |  47mm to 85mm |

Railway Cable Accessories**HEATSHRINKABLE POWER CABLE END SEALING BOOTS**
2 and 4 Core Cables

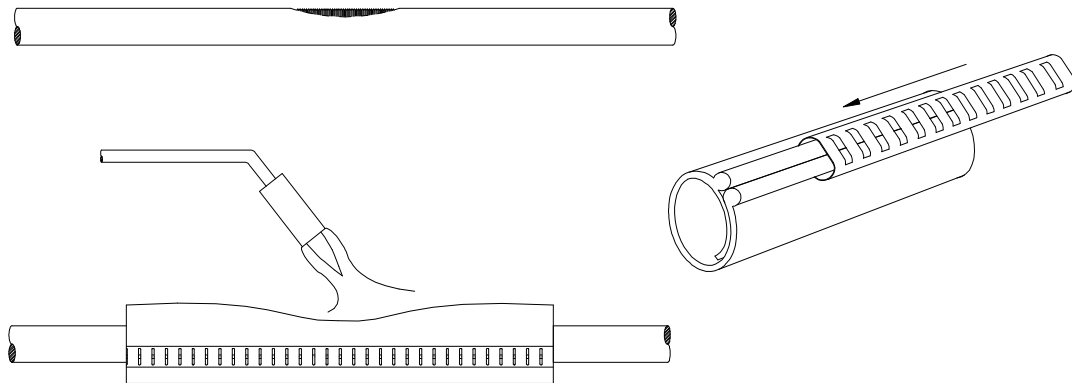
Power cables terminated into equipment will allow moisture to seep into the cable unless the end is suitably sealed. GrayBar Heatshrinkable cable breakouts are highly suited for terminating 2 and 4 core railway power cables.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range |
|--------------------------|-------------------------|--|-------------------------------------|
| 054/037013 054/037022 | GB 6/2 GB 6/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 6mm |
| 054/037014 054/037023 | GB 10/2 GB 10/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 10mm |
| 054/037015 054/037024 | GB 16/2 GB 16/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 16mm |
| 054/037016 054/037025 | GB 25/2 GB 25/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 25mm |
| 054/037017 054/037026 | GB 35/2 GB 35/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 35mm |
| 054/037018 054/037027 | GB 50/2 GB 50/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 50mm |
| 054/037019 054/037028 | GB 70/2 GB 70/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 70mm |
| 054/037020 054/037029 | GB 95/2 GB 95/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 95mm |
| 054/037021 054/037030 | GB 120/2 GB 120/4 | 2 Leg Cable End Sealing Boot 4 Leg Cable End Sealing Boot | 120mm |
| 054/037115 | GBK 1399 | Termination Kit for 2 Core Cables | 10-35mm ² Power Cable |

Railway Cable Accessories**HEATSHRINKABLE WRAPAROUND SHEATH REPAIR KITS**

Suitable for Power, Signalling and Telecom cables.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Recommended Working Range |
|--------------------------|------------------|--|---------------------------|
| 054/018610 086/099555 | GBW 35/10 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 10mm to 30mm Dia. |
| 054/018640 | GBW 51/19 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 15mm to 50mm Dia. |
| 054/018606 | GBW 70/21 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 22mm to 70mm Dia. |
| 054/018608 | GBW 105/30 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 30mm to 100mm Dia. |
| 054/018609 | GBW 146/38 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 38mm to 130mm Dia |
| 054/018607 | GBW 188/55 | Wraparound Heatshrink Repair Sleeve – 1 Mtr Long | 55mm to 175mm Dia. |

WRAPAROUND TEST POINT AND SHEATH REPAIR KITS.

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Cable Range / Type |
|-------------------|------------------|---|---|
| 054/037078 | GBK 1266 | Test Point Joint / Repair Kit for 12 to 27 core Cable | 0.75 – 2.5mm ² Signalling Cable |
| 054/037077 | GBK 1267 | Test Point Joint / Repair Kit for 37 to 48 core Cable | 0.75 – 2.5mm ² Signalling Cable |

Railway Cable Accessories**THINWALL HEATSHRINK TUBING – 2:1**

| P.A.D.S. Ref. No. | GrayBar Part No. | Description | Shrink Range |
|--------------------------|-------------------------|--|---------------------|
| 054/073439 | GBT 48/60 | Thinwall Heatshrink Sleeve (60Mtr Reel) | 2.4mm - 4.8mm |
| 054/073440 | GBT 64/60 | Thinwall Heatshrink Sleeve (60Mtr Reel) | 3.2mm – 6.4mm |
| 054/073441 | GBT 95/60 | Thinwall Heatshrink Sleeve (60Mtr Reel) | 4.8mm – 9.5mm |
| 054/073442 | GBT 127/60 | Thinwall Heatshrink Sleeve (60Mtr Reel) | 6.4mm – 12.7mm |
| 054/073443 | GBT 190/60 | Thinwall Heatshrink Sleeve (60Mtr Reel) | 9.5mm – 19mm |
| 054/044058 | GBT 254/30 | Thinwall Heatshrink Sleeve (30Mtr Reel) | 12.7mm - 25.4mm |
| 054/044059 | GBT 381/30 | Thinwall Heatshrink Sleeve (30Mtr Reel) | 19.1mm – 38.1mm |
| 055/121906 | GBT 381/1.2 | Thinwall Heatshrink Sleeve (1.2Mtr Length) | 19.1mm – 38.1mm |
| 054/044060 | GBT 508/30 | Thinwall Heatshrink Sleeve (30Mtr Reel) | 25.4mm – 50.8mm |

Note: The above Heatshrink Tubing is available in Black, Red, Blue, Yellow and Clear.
When ordering please indicate colour & length preferences.

THICKWALL HEATSHRINK TUBING (SEALANT COATED) – 3:1

| P.A.D.S. Ref. No. | GrayBar Part No. | Description | Shrink Range |
|--------------------------|-------------------------|---|---------------------|
| 054/073436 | GBT 10/4 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 4mm - 12mm |
| 054/073431 | GBT 19/6 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 6mm – 22mm |
| 054/073432 | GBT 28/9 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 8mm – 30mm |
| 054/073433 | GBT 43/12 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 12mm – 40mm |
| 054/073434 | GBT 51/19 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 16mm – 51mm |
| 054/073435 | GBT 70/21 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 21mm – 70mm |
| 054/073437 054/073430 | GBT 90/30 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 30mm - 90mm |
| 054/073429 | GBT120/40 | Thickwall Heatshrink Sleeve (1.2Mtr tube) | 40mm – 122mm |

Note: The above Heatshrink Tubing is only available in Black. Standard sleeve length is 1200mm

DUALWALL HEATSHRINK TUBING – 3:1

| P.A.D.S. Ref. No. | GrayBar Part No. | Description | Shrink Range |
|--------------------------|-------------------------|---------------------------------------|---------------------|
| ~ | GBT 6/2A | Black Heatshrink Tubing (1.2Mtr tube) | 2mm – 6mm |
| 055/121849 | GBT 19/6A | Black Heatshrink Tubing (1.2Mtr tube) | 6mm – 19mm |

Note: All Heatshrink tubing/sleeve can be cut to length to meet special order requirements.

HEATSHRINKABLE CABLE ENTRY GLANDS.

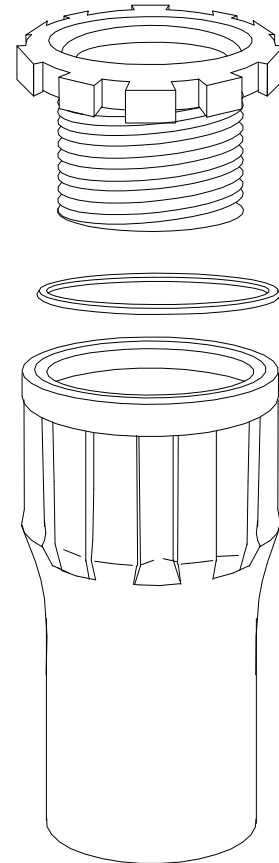
Standard heatshrinkable cable entry support and sealing gland fitted with range taking heavy duty, sealant lined heatshrinkable collar, 'O' ring, and male nylon bush.

Cable Entry Glands – Type CES

GrayBar heatshrinkable cable glands, type CES, are designed to ensure robust cable support and seal against moisture ingress for the majority of unarmoured railway cables.

The glands provide a flame retardant adhesive lined body and high-density nylon insert with a male nylon bush and neoprene 'O' ring.

The high shrink ratio heatshrinkable collar enables suitability for a wide range of cable diameters.

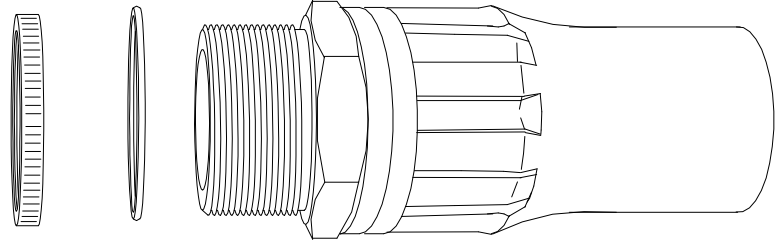


| P.A.D.S. Ref. No. | GrayBar Part No. | Cable Range | Max. Plate Thickness | Entry Hole Dia. |
|-------------------|------------------|--------------|----------------------|-----------------|
| 054/109179 | CES 1 | 3mm to 12mm | 6mm | 25.5mm (1") |
| 054/109175 | CES 2 | 6mm to 17mm | 6mm | 25.5mm (1") |
| 054/109176 | CES 3 | 12mm to 28mm | 8mm | 35mm (1.4") |
| 054/109164 | CES 4 | 19mm to 40mm | 10mm | 51mm (2") |
| 054/109181 | CES 5 | 36mm to 65mm | 18mm | 88mm (3.5") |

Railway Cable Accessories**HEATSHRINKABLE STAINLESS STEEL ADAPTOR GLANDS**

Type CES Heatshrink body fitted with stainless steel adapter designed to fit selected railway equipment.

This range incorporates a stainless steel threaded adapter, locknuts & washers with standard CES heatshrinkable cable glands. The stainless steel adapters are designed to be suitable for a wide range of railway equipment, with screwed or unscrewed cable entry holes.



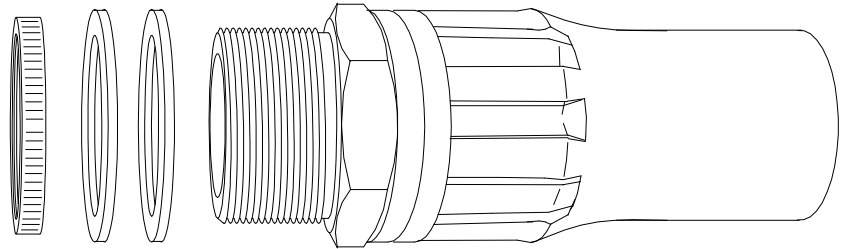
| P.A.D.S. Ref. No. | GrayBar Part No. | Application | Max Cable Dia. | Max Gland Inside Dia. | Thread Length | Thread Type |
|-------------------|------------------|-----------------------------------|----------------|-----------------------|----------------|--------------|
| 054/037051 | GBK 2020 | Post Mounted Telephones Etc. | 14mm | 14.5mm | 15mm | 20mm conduit |
| 054/037056 | GBK 2021 | Old Style Treadle Switch. | 14mm | 14.5mm | 10mm | M18 |
| 054/001002 | GBK 2022 | Westinghouse Impedance Bonds Etc. | 15mm | 16mm | 20mm | ½" BSP |
| 054/037055 | GBK 2023 | Adtranz Ground Signals | 27mm | 28mm | 15mm | 1" BSP |
| 054/037057 | GBK 2024 | Westinghouse '63' Point Machine | 20mm | 21mm | 15mm | ¾" BSP |
| 054/001003 | GBK 2025 | Alstom Type Signals | 24mm | 25mm | 20mm | 38mm conduit |
| 054/037059 | GBK 2026 | Alstom '2000' Type Point Machine | 24mm | 25mm | 20mm | 32mm conduit |
| 054/037050 | GBK 2027 | Post Telephones & Others | 14mm | 14.5mm | 15mm | 20mm conduit |
| 054/001004 | GBK 2028 | Track Auto Warning System | 24mm | 25mm | 10mm | 32mm conduit |
| 054/001001 | GBK 2029 | Type 3 Impedance Bond | 13mm | 13.4mm | 20mm | M18 |
| 054/037058 | GBK 2030 | Impedance Bonds / AWS Inductor | 18mm | 19mm | 20mm | 25mm conduit |
| 054/001005 | GBK 2031 | Wheel Counter (F.R.E.D.) Etc. | 14mm | 14.5mm | 12mm | 20mm conduit |
| 054/037067 | GBK 2032 | AWS Etc. & Ext. Thread Fixing | 14mm | 14.5mm | 35mm | 20mm conduit |
| 054/037068 | GBK 2033 | Detector Box / Switch Etc. | 18mm | 19mm | 25mm | 25mm conduit |
| ~ | GBK 1407 | Clamplock Small Hole | 26mm | 27mm | 25mm | M30 |
| ~ | GBK 1409 | Clamplock Large Hole | 28mm | 29mm | 6+5mm shoulder | M32 |
| ~ | GBK 1173 | DLR Point Detection Box | 25mm | 26mm | 15mm | M32 |

Railway Cable Accessories

HEATSHRINKABLE BRASS ADAPTOR GLANDS

Type CES Heatshrink body fitted with brass adapter designed to fit selected railway equipment.

This range incorporates a brass-threaded adapter, locknuts & washers with standard CES heatshrinkable cable glands. The brass adapters are designed to be suitable for a wide range of railway equipment, with screwed or unscrewed cable entry holes.



| P.A.D.S. Ref. No. | GrayBar Part No. | Application | Max Cable Dia. | Max Gland Inside Dia. | Thread Length | Thread Type |
|-------------------|------------------|--|----------------|-----------------------|---------------|-------------|
| 054/000092 | GBK 1621 | Type 2 & 3 Impedance Bonds / AWS Inductor | 18mm | 19mm | 30mm | M22 |
| 054/000093 | GBK 1622 | AWS Suppressor Inductor | 18mm | 19mm | 42mm | M22 |
| 054/000094 | GBK 1623 | Type 2 & 3 Impedance Bond / Point Heater Transformers | 15mm | 16mm | 20mm | M18 |
| 054/000095 | GBK 1624 | Type 2 Impedance Bond / Supplementary Detector Box / Point Heater Transformers, Etc. | 20mm | 21mm | 30mm | M25 |
| 054/000096 | GBK 1625 | Electro Hydraulic Power Packs / Alstom HW Point Machines / Point Heater Transformers | 25mm | 26mm | 25mm | M30 |
| 054/000097 | GBK 1626 | Type PL1W, PL1R and PL2R Signals / Accumulator Units, Etc. | 25mm | 26mm | 12mm | M30 |
| 054/000098 | GBK 1627 | Detector Boxes / Treadle Switches / P3 Impedance Bonds / Controllers / Point Machines / Etc. | 28mm | 28mm | 6+5mm | M32 |
| 054/000099 | GBK 1628 | DAC & RACAL Weatherproof Telephones | 13.5mm | 14mm | 25mm | M17.5 |

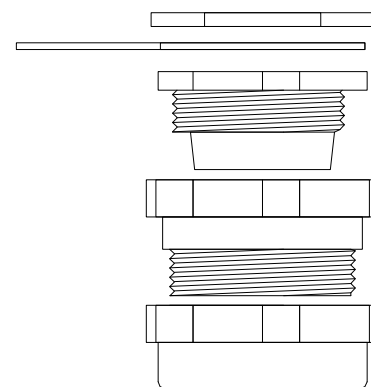
Rail Equipment Cable Entry apertures may vary depending on the equipment age, therefore it is highly recommended that this be taken into account when selecting a suitable gland.

Railway Cable Accessories

TYPE 'CW' AND 'A2' BRASS COMPRESSION GLANDS

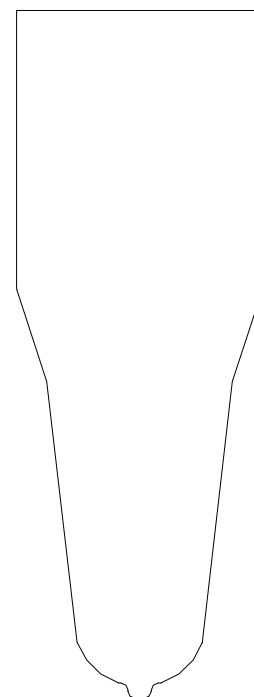
CW type brass gland kits are suitable for plastic or rubber insulated, single wire armoured cables in most climate conditions. Terminates and secures cable armouring and outer seal grips sheath of cable, thus ensuring mechanical strength and earth continuity. Weatherproof. Supplied with steel locknut, earth tag and shroud.

| P.A.D.S. Ref. No. | GrayBar Part No. | Ref. | Min Cable Dia. mm | Max Cable Dia. mm |
|----------------------|---------------------|-------|-------------------------|----------------------|
| 054/138803 | GBK 1654 | CW20S | 8.0 | 15.8 |
| ~ | GBK 1684 | CW20 | 11.7 | 20.8 |
| ~ | GBK 1685 | CW25 | 17.0 | 27.2 |
| ~ | GBK 1655 | CW32 | 23.5 | 33.5 |
| ~ | GBK 1686 | CW40 | 29.0 | 39.9 |
| ~ | GBK 1687 | CW50S | 39.8 | 47.0 |
| ~ | GBK 1688 | CW50 | 39.5 | 52.6 |
| ~ | GBK 1689 | CW63S | 50.0 | 60.3 |
| ~ | GBK 1690 | CW63 | 51.3 | 65.3 |



A2 type brass gland kits are suitable for plastic or rubber insulated single wire unarmoured cables in most climate conditions. Supplied with steel locknut, earth tag and shroud.

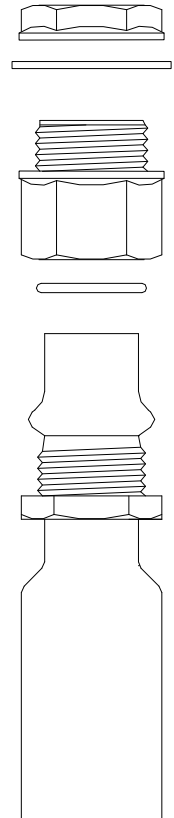
| P.A.D.S. Ref. No. | GrayBar Part No. | Ref. | Min Cable Dia. mm | Max Cable Dia. mm |
|----------------------|---------------------|--------|----------------------|----------------------|
| ~ | GBK 1691 | A2 20S | 8.0 | 11.5 |
| ~ | GBK 1692 | A2 20 | 11.0 | 13.5 |
| ~ | GBK 1693 | A2 25 | 13.0 | 19.5 |
| ~ | GBK 1694 | A2 32 | 19.0 | 25.5 |
| ~ | GBK 1695 | A2 40 | 25.0 | 32.0 |
| ~ | GBK 1696 | A2 50S | 31.5 | 37.0 |
| ~ | GBK 1697 | A2 50 | 36.5 | 43.0 |
| ~ | GBK 1698 | A2 63S | 42.5 | 50.0 |
| ~ | GBK 1699 | A2 63 | 49.5 | 55.0 |



Railway Cable Accessories

HEATSHRINKABLE CABLE SEALING GLANDS.

GrayBar cable sealing glands provide a means for fitting cables into waterproof enclosures using standard ISO fittings. Installation of the heatshrink assembly to the cable is accomplished away from the installed sealing gland body, preventing heat damage to the enclosure, or to other cables in close proximity. Replacement heatshrink parts can be ordered separately, if required.

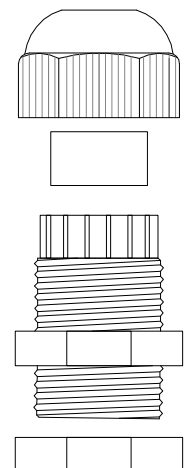


| P.A.D.S. Ref. No. | GrayBar Part No. | Cable Range / Dimensional Detail |
|-------------------|------------------|---|
| 054/029073 | GBK 1410 | Cable Dia 5mm – 16mm Hole size 25mm, Gland Body 32mm |
| 054/078037 | GBK 1410R | Replacement Heatshrink Unit for GBK1410 |
| 054/029074 | GBK 1404 | Cable Dia 6mm – 22mm Hole size 32mm, Gland Body 42mm |
| 054/078038 | GBK 1404R | Replacement Heatshrink Unit for GBK1404 |

DOME TOP NYLON GLANDS

GrayBar cable entry glands are manufactured from a high specification moulded material which is ideally suited to the Railway environment. The multiple thread makes for secure and rapid assembly while the neoprene seal provides a perfect watertight seal to IP68.

| P.A.D.S. Ref. No. | GrayBar Part No. | Cable Range / Dimensional Detail |
|-------------------|------------------|----------------------------------|
| ~ | GBK 1740 | Cable size 6-12mm / 20mm Hole |
| ~ | GBK 1741 | Cable size 9-17mm / 25mm Hole |
| ~ | GBK 1742 | Cable size 18-25mm / 32mm Hole |
| ~ | GBK 1743 | Cable size 22-32mm / 40mm Hole |



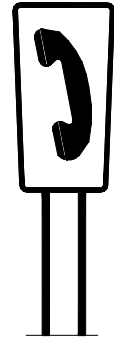
Other sizes are available please call with your requirements.

Railway Cable Accessories

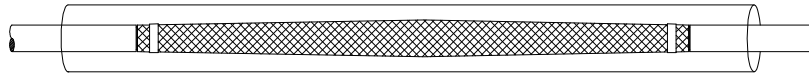
TELECOM CABLE JOINTING KITS

Heatshrinkable jointing kits for compound and jelly filled telecom cables.

Single and multi-entry closures in tubular and wraparound form allowing re-entry if required.

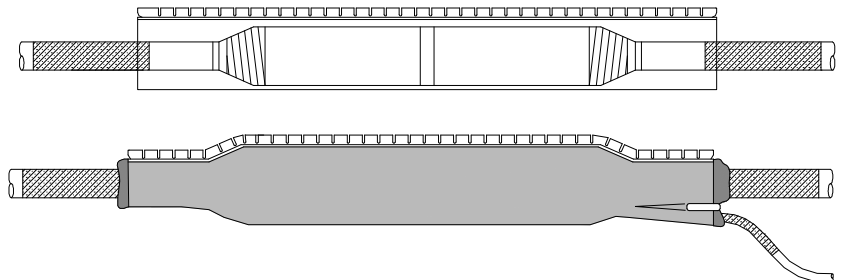


Tubular in-line single cable entry joint closures with steel braid lining.



| P.A.D.S. Ref. No. | GrayBar Part No. | Description |
|-------------------|------------------|---|
| 054/015849 | GBK 1291 | 5/10 pr Compound Filled Cable Joint Kit with braid lining. |
| 054/015852 | GBK 1121 | 20/30 pr Compound Filled Cable Joint Kit with braid lining. |
| 054/015853 | GBK 1338 | 50/75 pr Compound Filled Cable Joint Kit with braid lining. |

Wraparound sleeve single and multi cable entry joint closures with laminated lining.

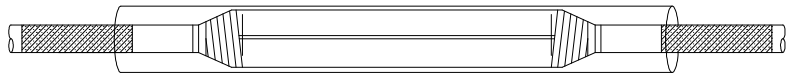


| P.A.D.S. Ref. No. | GrayBar Part No. | Description |
|-------------------------------|------------------------------------|---|
| 087/004810 054/037062 ~ | GBK 1334 GBK 1334B GBK 1334R | 5/10/20 pr Jelly Filled Cable Joint Kit with Laminated liner. 5/10/20 pr Jelly Filled Cable Joint kit with Laminated liner, kit includes branch clip. 5/10/20 pr Reclosure Kit, includes branch clip. |
| 087/004811 054/037060 ~ | GBK 1273 GBK 1273B GBK 1273R | 30/50 pr Jelly Filled Cable Joint Kit with Laminated liner. 30/50 pr Jelly Filled Cable Joint kit with Laminated liner, kit includes branch clip. 30/50 pr Reclosure Kit includes branch clip. |
| 087/004812 054/037061 ~ | GBK 1335 GBK 1335B GBK 1335R | 70/100 pr Jelly Filled Cable Joint Kit with Laminated liner. 70/100 pr Jelly Filled Cable Joint kit with Laminated liner, kit includes branch clip. 70/100 pr Reclosure Kit, includes branch clip. |

Railway Cable Accessories

TELECOM CABLE CANISTER AND CAST RESIN ENCLOSURE KITS

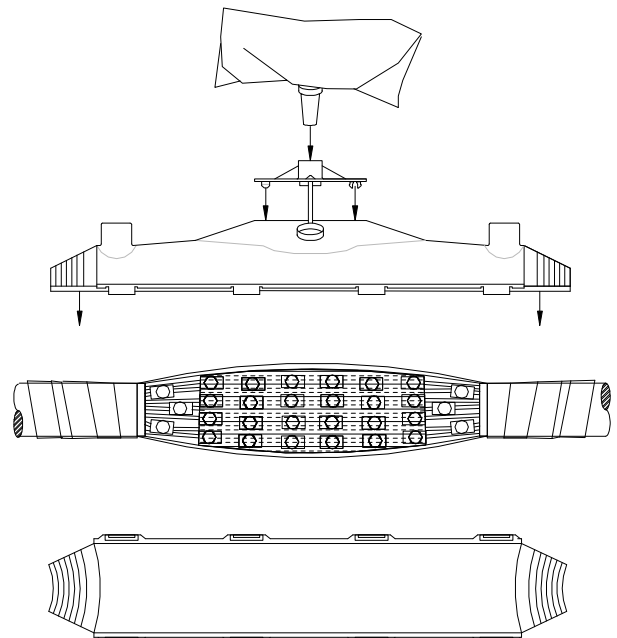
Tubular in-line single entry joint closures with metal canister enclosure.



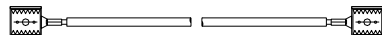
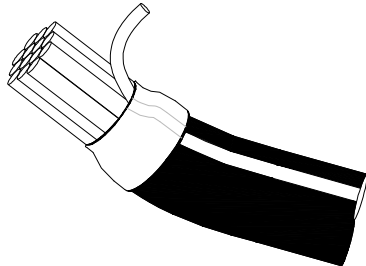
| P.A.D.S. Ref. No. | GrayBar Part No. | Description |
|-------------------|------------------|--|
| 054/037081 | GBK 1341 | 20 pr Compound Filled Cable Joint Kit with metal enclosure. |
| 054/037082 | GBK 1342 | 50 pr Compound Filled Cable Joint Kit with metal enclosure. |
| 054/037083 | GBK 1343 | 100 pr Compound Filled Cable Joint Kit with metal enclosure. |

A range of straight through resin Scotchcast joint kits are available for cable 8mm to 37mm Which can be used in areas that you cannot use the heatshrinkable kits.

| P.A.D.S. Ref. No. | GrayBar Part No. | Range |
|-------------------|------------------|---------|
| 054/015649 | GBK 1348 | 8-18mm |
| 054/015650 | GBK 1349 | 13-28mm |
| 054/015656 | GBK 1351 | 14-32mm |
| 054/015661 | GBK 1352 | 28-51mm |
| 054/015659 | GBK 1353 | 23-37mm |



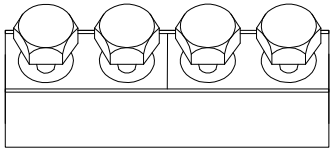


Railway Cable Accessories**SUNDRY TELECOMMUNICATION ACCESSORIES**

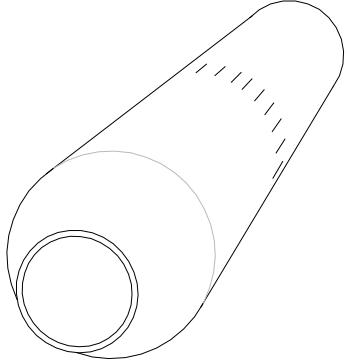
| P.A.D.S. Ref. No. | GrayBar Part No. | Description | Cable Style / Range |
|------------------------------|-----------------------------|--|--|
| 054/037084 | GBK 1285 | Sub Spare Repair kit. (Excluding Connectors) | 2 & 5 pair |
| 054/037085 | GBK 1123 | Sub Spare Repair Kit. (Excluding Connectors) | 10 pair |
| 054/037108 | GBK 1340 | Putty Wipe Repair Kit. | Max Cable Dia. = 165mm Min Cable Dia. = 43mm |
| 054/037139 | GBK 1526 | Telecom Cable Moisture Shield Earth Bonding Clip and Earth Lead Kit. |  |
| 054/037143 | GBK 1530 | Telecom Cable Termination Sealing Kit, 2 to 10 pr. (PK 5) With shield bond. |  |
| 054/037141 | GBK 1528 | Telecom Cable Termination Sealing Kit, 10 to 50 pr. (PK 5) With shield bond. | |
| 054/037142 | GBK 1529 | Metallic Sheath Gapping Kit. | 13 – 35mm Dia. Telecom cables |

Railway Cable Accessories**SEPARATE SCREENING CONDUCTOR JOINT KITS AND TRACKSIDE BONDING CABLE JOINT KITS**

Aluminium to Aluminium and Aluminium to Copper
(All kits complete with connectors)

| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Connector Style / Cable Type |
|-------------------|------------------|--|--|
| ~ | GBK 1098 | Screening Conductor Straight Joint Kit for Single Core Catenary Earth Cable Bonding. |  Aluminium 16mm ² to Aluminium 16mm ² |
| 054/037126 | GBK 1074 | Screening Conductor Straight Joint Kit for Single Core Cable |  Aluminium 150mm ² to Aluminium 150mm ² |
| ~ | GBK 1074M | Screening Conductor Straight Joint Kit for Single Core Catenary Earth Cable Bonding with Mechanical connector. |  Aluminium 150mm ² to Aluminium 150mm ² |

CRIMP CONNECTORS FOR SINGLE CORE STRANDED ALUMINIUM CONDUCTORS

| | | | |
|---|----------|--|---|
| ~ | CPT 1375 | 16mm ² Aluminium Thro' Connector |  |
| ~ | CPT 727 | 25mm ² Aluminium Thro' Connector | |
| ~ | CPT 392 | 35mm ² Aluminium Thro' Connector | |
| ~ | CPT 545 | 50mm ² Aluminium Thro' Connector | |
| ~ | CPT 546 | 70mm ² Aluminium Thro' Connector | |
| ~ | CPT 822 | 95mm ² Aluminium Thro' Connector | |
| ~ | CPT 547 | 120mm ² Aluminium Thro' Connector | |
| ~ | CPT 556 | 150mm ² Aluminium Thro' Connector | |
| ~ | CPT 1681 | 185mm ² Aluminium Thro' Connector | |

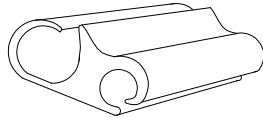
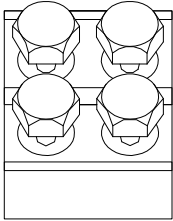
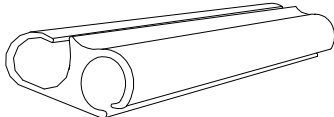
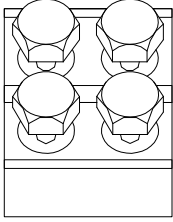
CPT 1162 - Hydraulic Crimping Tool

Railway Cable Accessories

SINGLE CORE POWER CABLE SCREENING CONDUCTOR JOINT KITS

Single core with branch

(All kits complete with connectors, crimp and mechanical kits)

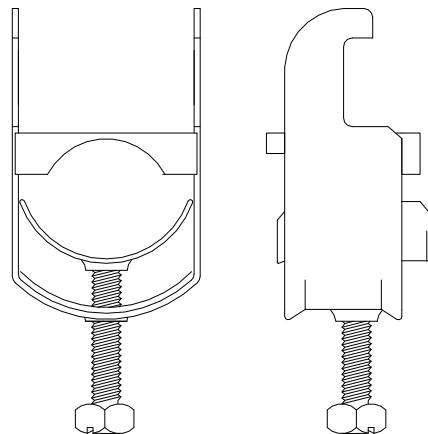
| P.A.D.S. Ref. No. | GrayBar Part No. | Description / Application | Connector Style |
|-------------------|------------------|--|---|
| 054/037127 | GBK 1075 | Inline Screening Conductor Joint Kit 150mm ² Single core |  <p>150mm² Stranded Aluminium 16mm² Stranded Copper Branch</p> |
| ~ | GBK 1075M | Inline Screening Conductor Joint Kit 150mm ² Single core with Mechanical connector |  <p>150mm² Stranded Aluminium 16mm² Stranded Copper Branch</p> |
| 054/037128 | GBK 1091 | Inline Screening Conductor Joint Kit 150mm ² Single core |  <p>150mm² Stranded Aluminium 150mm² Stranded Aluminium Branch</p> |
| ~ | GBK 1091M | Inline Screening Conductor Joint Kit 150mm ² Single core with Mechanical connector |  <p>150mm² Stranded Aluminium 150mm² Stranded Aluminium Branch</p> |

Railway Cable Accessories**STAINLESS STEEL CABLE CLAMPS**

(One and Two Cables)

Stainless steel cable clamps are supplied with counterbed inserts

| P.A.D.S. Ref. No. | GrayBar Part No. | Clamp Type | Cable Range |
|-------------------|------------------|-----------------|-------------|
| 086/043600 | CPT 910 | 1 Cable to Rack | 12 – 16mm |
| 086/043601 | CPT 911 | 1 Cable to Rack | 16 – 20mm |
| 086/043602 | CPT 912 | 1 Cable to Rack | 20 – 24mm |
| 086/043603 | CPT 913 | 1 Cable to Rack | 24 – 28mm |
| 086/043604 | CPT 914 | 1 Cable to Rack | 28 – 32mm |
| 086/043605 | CPT 915 | 1 Cable to Rack | 32 – 36mm |



| P.A.D.S. Ref. No. | GrayBar Part No. | Clamp Type | Cable Range |
|-------------------|------------------|------------------|-------------|
| 086/043606 | CPT 1151 | 2 Cables to Rack | 12 – 16mm |
| 086/043607 | CPT 1152 | 2 Cables to Rack | 16 – 20mm |
| 086/043608 | CPT 1153 | 2 Cables to Rack | 20 – 24mm |
| 086/043609 | CPT 1154 | 2 Cables to Rack | 24 – 26mm |
| 086/043610 | CPT 1155 | 2 Cables to Rack | 26 – 30mm |

