

UNIPART RAIL

Point Heating Handbook

Issue 2: December 2009



2 | Foreword

The Unipart Rail suite of handbooks are being developed as individual, easy to carry, single engineering discipline sources of information. They complement the Unipart Rail main catalogue which continues to be the most comprehensive publication of products available to our customers and partners in the rail industry.

This Point Heating Handbook is possible because of Unipart Rail's unique position in the rail industry which brings together materials from a wide range of suppliers, allowing you to create complete packages of products for point heating installations and maintenance.

The Point Heating product range, which is covered by all appropriate accreditation, is only a part of the service we provide to the rail industry, including:

- Consultancy in 'Lean' business techniques to reduce business costs
- Manufacturing, Service, Repair and Refurbishment
- Product Innovation, Technical Support and Engineering Expertise
- LED Signalling & Information Systems

You can find more information about Unipart Rail on our website www.unipartrail.com. All the products in this catalogue can be found online in our products listings which are continuously updated throughout the year.

As a part of the Unipart Group, Unipart Rail has the backing of a £1.1 billion company employing over 9000 experts worldwide in a wide range of industries covering Rail, Automotive, Marine & Leisure, Logistics, Manufacturing and Expert Practices. More information can be found at www.unipart.co.uk and www.unipartep.co.uk.

We hope that you find this handbook useful to you in your work and that we can continue to work together to achieve high levels of customer satisfaction which is vital to the development of the rail network.



Graham Jackson

Managing Director - Infrastructure & Manufacturing

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Electric Point Heating is a prerequisite for ensuring smooth railway operations during periods of low temperatures. The objective of this handbook is to inform customers on the total product range package of Point Heating Kits, individual materials and services available from Unipart Rail.

Whether the requirement is maintenance or new installations, Unipart Rail's supply offering has been prepared following extensive discussions with those involved in the Point Heating purchasing, installation and maintenance.

Both Self Regulating and Constant Wattage products are included within the handbook and the service offered. Pad Heating is also covered.

Kitting options are included which provide the opportunity to minimise order production and individual component management. Cubicle supply to specific customer needs is also available to complement either kitting or individual component ordering.

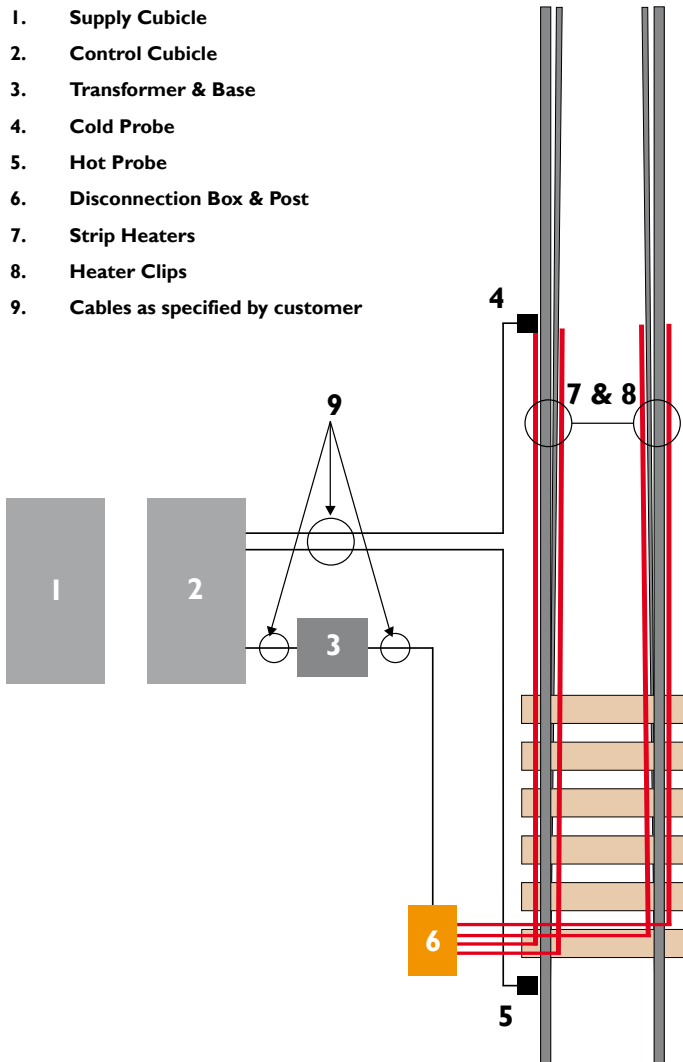
Technical support relating to the product range is also available upon request by contacting:

Mervyn Evans
Technical Support Manager
E-Mail: technicalsupport@unipartrail.com
Tel: 01270 847719

Network Rail Product Approval Numbers are available on request

6 | Point Heating Schematic

1. Supply Cubicle
2. Control Cubicle
3. Transformer & Base
4. Cold Probe
5. Hot Probe
6. Disconnection Box & Post
7. Strip Heaters
8. Heater Clips
9. Cables as specified by customer



As a significant benefit to end user and site storage of materials, Kitting has become a popular method of improving Supply Chain Management.

In addition, reduction in order and invoice lines plus packaging benefits, support the concept.

Point heating is an area where Kitting has recently been developed and continues to be an option for aiding the user and Supply Chain.

Unipart Rail, in addition to the Kitting already listed in the following pages, offer the option to all customers for further development should this be required.

Unipart Rail recognises from customer feedback that kits could be a preferred option. Unipart Rail have developed a number of options, however are happy to further develop bespoke kits in-line with your requirements.

A kit consists of all the materials you need for a particular piece of work - whether it is for an entire possession or a small upgrade.

For further information and kitting options please contact:

Mervyn Evans
Technical Support Manager
E-Mail: technicalsupport@unipartrail.com
Tel: 01270 847719

1131b FB Switch & Stock Rail - Solid Chair Jaw Blocks

Catalogue Number	Kit Contents
K050/555805 AV Switch	RHC-001 x 22 RHC-007 x 22 RHC-004 x 4
K050/555806 BV Switch	RHC-001 x 28 RHC-007 x 28 RHC-004 x 4
K050/555807 CV Switch	RHC-001 x 28 RHC-007 x 28 RHC-004 x 4
K050/555808 DV Switch	RHC-001 x 32 RHC-007 x 32 RHC-004 x 4
K050/555809 EV Switch	RHC-001 x 44 RHC-007 x 44 RHC-004 x 8
K050/555810 FV Switch	RHC-001 x 56 RHC-007 x 56 RHC-004 x 8
K050/555811 SGVSwitch	RHC-001 x 64 RHC-007 x 64 RHC-004 x 8
K050/555812 GV Switch	RHC-001 x 78 RHC-007 x 78 RHC-004 x 12
K050/555813 HV Switch	RHC-001 x 96 RHC-007 x 96 RHC-004 x 12

The above list of kits are clips only for use where the points are 1131b flat bottom construction and where SOLID chair jaw blocks are in use in the point layout. See pages 16 - 20 for images of clip types.

1131b FB Switch & Stock Rail - Slotted or no Chair Jaw Blocks

Catalogue Number	Kit Contents
K050/555815 AV Switch	RHC-001 x 44 RHC-004 x 4
K050/555816 BV Switch	RHC-001 x 56 RHC-004 x 4
K050/555817 CV Switch	RHC-001 x 56 RHC-004 x 4
K050/555818 DV Switch	RHC-001 x 64 RHC-004 x 4
K050/555819 EV Switch	RHC-001 x 88 RHC-004 x 8
K050/555820 FV Switch	RHC-001 x 112 RHC-004 x 8
K050/555821 SGV Switch	RHC-001 x 128 RHC-004 x 8
K050/555822 GV Switch	RHC-001 x 156 RHC-004 x 12
K050/555823 HV Switch	RHC-001 x 192 RHC-004 x 12

The above list of kits are clips only for use where the points are 1131b flat bottom construction and where SLOTTED or NO chair blocks are fitted.

See pages 16 - 20 for images of clip types.

10 | Clip Only Kits using BritClips - Heater Strips not included

95R Bullhead Switch & Stock Rails

Catalogue Number	Kit Contents
K050/555825 A Switch	RHC-015 x 22 RHC-016 x 22 RHC-017 x 4 RHC-025 x 2
K050/555826 B Switch	RHC-015 x 28 RHC-016 x 28 RHC-017 x 4 RHC-025 x 2
K050/555827 C Switch	RHC-015 x 28 RHC-016 x 28 RHC-017 x 4 RHC-025 x 2
K050/555828 D Switch	RHC-015 x 32 RHC-016 x 32 RHC-017 x 4 RHC-025 x 2
K050/555829 E Switch	RHC-015 x 44 RHC-016 x 44 RHC-017 x 4 RHC-025 x 2
K050/555830 F Switch	RHC-015 x 56 RHC-016 x 56 RHC-017 x 4 RHC-025 x 2
K050/555831 SG Switch	RHC-015 x 64 RHC-016 x 64 RHC-017 x 4 RHC-025 x 2

See pages 16 - 20 for images of clip types.

K050/555832 - G Switch	RHC-015 x 78 RHC-016 x 78 RHC-017 x 6 RHC-025 x 2
K050/555833 - H Switch	RHC-015 x 96 RHC-016 x 96 RHC-017 x 6 RHC-025 x 2

The above list of kits are clips only for use where the points are 95lb bull head construction. See pages 16 - 20 for images of clip types.

RT60 Switch & Stock Rail with Concrete Bearers

Catalogue Number	Kit Contents
K050/555835 C Switch	RHC-001 x 34 RHC-004 x 2 RHC-013 x 34 RHC-014 x 2
K050/555836 D Switch	RHC-001 x 44 RHC-004 x 4 RHC-013 x 44 RHC-014 x 4
K050/555837 E Switch	RHC-001 x 56 RHC-004 x 5 RHC-013 x 56 RHC-014 x 4
K050/555838 F Switch	RHC-001 x 68 RHC-004 x 4 RHC-013 x 68 RHC-014 x 4
K050/555839 SG Switch	RHC-001 x 78 RHC-004 x 6 RHC-013 x 78 RHC-014 x 6

See pages 16 - 20 for images of clip types.

12 | Clip Only Kits using BritClips - Heater Strips not included

K050/555840 G Switch	RHC-001 x 90 RHC-004 x 6 RHC-013 x 90 RHC-014 x 6
K050/555841 H Switch	RHC-001 x 124 RHC-004 x 8 RHC-013 x 124 RHC-014 x 8
K050/555842 J Switch	RHC-001 x 158 RHC-004 x 10 RHC-013 x 158 RHC-014 x 10

See pages 16 - 20 for images of clip types.

Clip Selection Guide

Ref. No.	Catalogue Number	To Fit Rail Type										Where used		
		BS110	BS113	UIC54	UIC54A	UIC54B	UIC60	UIC60B	Bullhead					
*RHC-001	0055/009155	•	•	•			•							Bottom Fix
*RHC-002	0055/009156				•									Bottom Fix
*RHC-003	0055/009157							•						Bottom Fix
*RHC-004	0055/009158	•	•	•			•							Barrel Holder
*RHC-005	0055/009159				•									Barrel Holder
*RHC-006	0055/009160							•						Barrel Holder
*RHC-007	0055/009161	•	•	•										Top Fix
*RHC-013	0055/009166										•			Top Fix
*RHC-014	0055/009167										•			Barrel Holder
*RHC-015	0055/009168											•		Bottom Fix
*RHC-016	0055/009169											•		Top Fix
*RHC-017	0055/009172												•	Barrel Holder
*RHC-019	0055/009175	•	•	•			•							Temperature Sensor
*RHC-025	0055/009179												•	Toe End Knock on Heater Clip
RHC-030													•	Temperature Sensor

• Denotes suitability of clip to rail type

See pages 16 - 20 for images of clip types.

Clip Quantities for UIC60 Rail

Switch Type	RT60 Switches with concrete bearers			RT60 Switches with hollow bearers
	N° of clips required for UIC60 Stock Rail	N° of clips required for UIC60 Switch Rail	N° of clips required	
PADS Cat N°	0055/009155	0055/009158	0055/009166	0055/009155
Britclips Product N°	RHC-001	RHC-004	RHC-013	RHC-001
RT60C Switch	34	2	34	42
RT60D Switch	44	4	44	45
RT60E Switch	56	4	56	57
RT60F Switch	68	4	68	69
RT60SG Switch	78	6	78	84
RT60G Switch	90	6	90	102
RT60H Switch	124	8	124	132
RT60J Switch	158	10	158	128
				Providing barrels located in hollow bearer

These tables are for guidance only and should not be accepted as any part of a line standard. Notes: As a rough guide, there should be 17 clips per 4 metre strip etc. Where the strip heater barrel is affixed to the rail, then one barrel clip per strip will be required. Where the barrel of the strip heater is in a hollow bearer, then no barrel clip is required. Where temperature probes are attached to the rail, a 0055/009175, RHC-019 clip will be required for EACH probe.

See pages 16 - 20 for images of clip types.

Clip Quantities for Switch Type

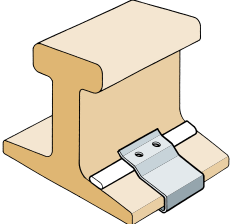
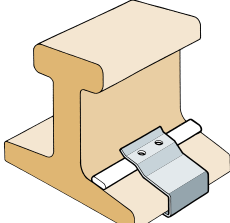
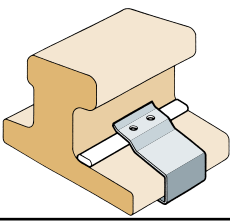
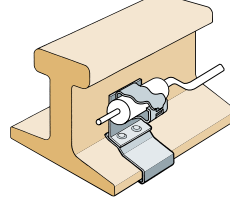
Switch Type	113A Flat Bottom with solid jaw blocks N° of clips required for stock and switch rails		95R Bullhead SwitchesN° of clips required for stock and switch rails				
PADS Cat N°	0055/009155	0055/009161	0055/009158	0055/009168	0055/009169	0055/009172	0055/009179
Britclips Product N°	RHC-001 Bottom Fit	RHC -007 Under Head	RHC-004 Barrel Holder	RHC-015 Bottom Fit	RHC-016 Under Head	RHC-017 Barrel Holder	RHC-025 Toe End
AV Switch	22	22	4	22	22	4	
BV Switch	28	28	4	28	28	4	
CV Switch	28	28	4	28	28	4	
DV Switch	32	32	4	32	32	4	
EV Switch	44	44	8	44	44	4	
FV Switch	56	56	8	56	56	4	
SGV Switch	64	64	8	64	64	4	
GV Switch	78	78	12	78	78	6	
HV Switch	96	96	12	96	96	6	

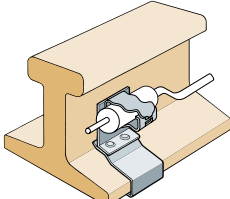
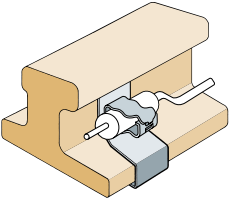
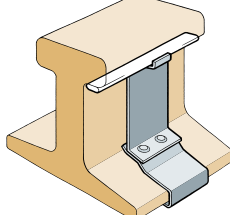


Notes

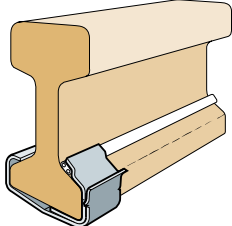
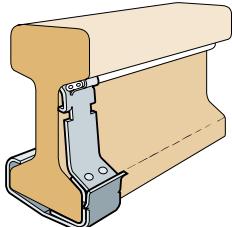
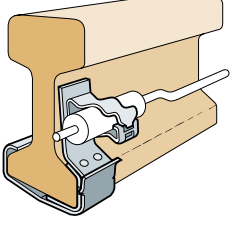
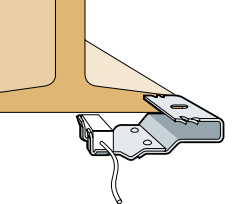

Where the strip heater barrel is affixed to the rail, then one barrel clip per strip will be required. Where temperature probes are attached to the rail, a 0055/009175 RHC-019 clip will be required for each probe fitted to 113A rail. (For fitting of temperature probes on 95R bullhead rail, a RHC-030 clip should be used) Toe end clips may be required on Bullhead rail switch rails.

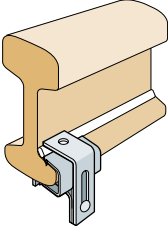
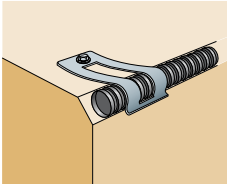
These tables are for guidance only and should not be accepted as any line standard.

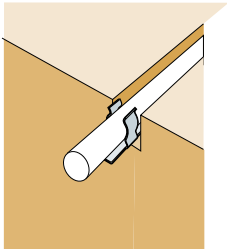
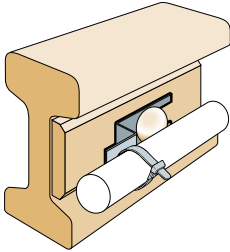
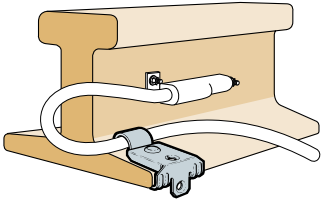
See pages 16 - 20 for images of clip types.

Catalogue Number	Part Number	Image
0055/009155	RHC-001	 A 3D perspective view of a light-colored I-beam rail with a grey metal clip attached to its bottom flange. The clip has two small holes on its top surface.
0055/009156	RHC-002	 A 3D perspective view of a light-colored I-beam rail with a grey metal clip attached to its bottom flange. The clip has two small holes on its top surface.
0055/009157	RHC-003	 A 3D perspective view of a light-colored I-beam rail with a grey metal clip attached to its bottom flange. The clip has two small holes on its top surface.
0055/009158	RHC-004	 A 3D perspective view of a light-colored I-beam rail with a grey metal clip attached to its bottom flange. The clip has two small holes on its top surface and a white plastic component attached to its side.

<p>0055/009159</p>	<p>RHC - 005</p>	
<p>0055/009160</p>	<p>RHC-006</p>	
<p>0055/009161</p>	<p>RHC - 007</p>	
<p>0055/009166</p>	<p>RHC - 013</p>	
<p>0055/009167</p>	<p>RHC - 014</p>	

0055/009168	RHC - 015	 <p>A cross-sectional diagram of a tan-colored I-beam rail with a grey metal clip (RHC-015) attached to its bottom flange. The clip has a single prong that fits into the web of the rail.</p>
0055/009169	RHC - 016	 <p>A cross-sectional diagram of a tan-colored I-beam rail with a grey metal clip (RHC-016) attached to its bottom flange. The clip has two prongs that fit into the web of the rail.</p>
0055/009172	RHC - 017	 <p>A cross-sectional diagram of a tan-colored I-beam rail with a grey metal clip (RHC-017) attached to its bottom flange. The clip has two prongs and a central screw-like component that fits into the web of the rail.</p>
0055/009175	RHC - 019	 <p>A cross-sectional diagram of a tan-colored I-beam rail with a grey metal clip (RHC-019) attached to its bottom flange. The clip has two prongs and a central screw-like component that fits into the web of the rail.</p>
0055/009179	RHC - 025	 <p>A cross-sectional diagram of a tan-colored I-beam rail with a grey metal clip (RHC-025) attached to its bottom flange. The clip has two prongs and a central screw-like component that fits into the web of the rail.</p>

0055/009162	RCC-01-14	
0055/009163	RCC-01-20	
0055/009164	RCC-01-25	
0055/009165	RCC-02	
	<p>RCC-04 This is not NR approved</p>	

	<p>RCC-05 This is not NR approved</p>	
	<p>RCC-06 This is not NR approved</p>	
	<p>HP5-12 This is not NR approved</p>	

Girder Clips

Catalogue Number	Description
0054/130005	BC750 Clip, jaw size 17-20mm. 6.5mm hole
0054/130041	BC1000 Clip, jaw size 23-30mm. 6.5mm hole

Expanding Foam

Catalogue Number	Description
0007/037003	Expanding foam to seal ends of troughing

Unipart Rail supplies cubicles to your specified design.

All such cubicles are to current Network Rail specification and are normally supplied in stainless steel.

- Three Phase Cubicles - Maximum of 12 outgoing ways
- Single Phase Cubicles - Maximum of 6 outgoing ways
- Constant Wattage or Self Regulating

To obtain a specific price, the following information is be required:-

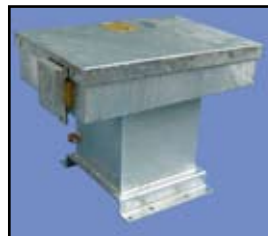
- Incoming cable size
- Number of outgoing ways
- Rating of outgoing ways
- Outgoing cable sizes
- Identification labels e.g OS reference/postcode/site name etc.

GRP cubicles are available if required, for further information please contact:

Mervyn Evans
Technical Support Manager
E-Mail: technicalsupport@unipartrail.com
Tel: 01270 847719

Point heating transformers are available for both third rail and non third rail areas.

All transformers are to current Network Rail specifications.



Galvanised Enclosures – AC Secondaries (For non third rail areas)

Catalogue Number	Part Number	Description
0055/121369	PHT/5/SH/PJ/DUAL/AC/ IP23/GALV	5kVA 230:110V
0055/121370	PHT/10/SH/PJ/DUAL/AC/ IP23/ GALV	10kVA 230:110V
Non Catalogue (Contact Technical Support for more info)	PTT/1/4/RCD/SI-63/IP54/ GALV	4 kVA Portable Tool Transformer, Standard RCD

NB Stainless Steel variants are available on request.

Catalogue Number	Description
0004/012774	Concrete mounting units (if site conditions require)
0050/555746	Kit of nuts, bolts & washers for fastening transformer to concrete base

Stainless Steel 316L Enclosures – DC Secondaries

(For use in third rail areas)

Catalogue Number	Part Number	Description
0055/121364	PHT/5/SH/PJ/DUAL/DC/IP23/316L/230V	5kVA, 1 phase 230:110V
0055/121365	PHT/5/SH/PJ/DUAL/AC/IP23/316L/400V	5kVA 3 phase 400:110V
0055/121366	PHT/3/10/SH/PJ/DUAL/DC/IP23/316L/400V	10kVA 3 phase 400:110V
0055/121363	PHT/10/SH/PJ/DUAL/DC/IP23/316L/400V	10kVA 1 phase 400:110v

Catalogue Number	Description
0004/012774	Concrete mounting units (if site conditions require)
0050/555746	Kit of nuts, bolts & washers for fastening transformer to concrete base

24 | Trackside Connection Units

Trackside Connection Units (TCU's) (or Point Heating Disconnection Box) are available in 8 or 16 way format and also with Glass Reinforced Plastic (GRP) and stainless Steel format.

Stainless Steel	GRP	Description
0050/555735 300 x 250 x 120 deep	0050/555687 300 x 250 x 150 deep	8 Way Enclosure with top hinged lid 4 x M20 bottom entries. 1 x M32 bottom entry 8 linked WDU 4 terminals, 2 brown, 2 yellow, 2 blue, 2 black all with relevant markers Key supplied with each box Can also be padlocked.
0050/555736 300 x 250 x 120 deep	0050/555688 300 x 250 x 150 deep	16 Way Enclosure with top hinged lid 8 x M20 bottom entries. 1 x M32 bottom entry 2 x blocks of 8 linked WDU 4 terminals, each with: 2 brown, 2 yellow, 2 blue, 2 black all with relevant markers Key supplied with each box Can also be padlocked

NB: All entry holes are threaded for glands to complement IP66 ratings.
Glands are available - contact Mervyn Evans to discuss individual requirements.
All measurements in millimetres.

Mounting Post & Fixings

Catalogue Number	Description
0050/555495	Mounting Post with buried foot not spiked, 760mm long
0004/012773	Concrete mounting base (optional)
0050/555746	Kit of nuts, bolts and washers for fastening Mounting Post to concrete base



Trackside Connection Unit
Cat No: 0050/555687



Mounting Post Cat No: 0050/555495

Option for base is:
Cat No: 0004/012773 Concrete Mounting Unit plus
Cat No: 0050/555746 Kit of nuts, bolts & washers

26 | Trackside Connection Units

Catalogue Number	Description
0055/021034* 400 x 405 x 120 deep	Post Mounted Off Track Junction Box, Glass-Fibre Reinforced Polyester (GRP) enclosure in light grey with stainless steel captive crosshead screw fixed lid. Includes: Post 8 x heater cable heatshrinkable glands 2 x heater feeder cable heatshrinkable glands Can terminate up to 16 conductors (8 strip heaters)
0055/021036* 400 x 405 x 120 deep	Base Mounted Off Track Junction Box, Glass-Fibre Reinforced Polyester (GRP) enclosure in light grey with stainless steel captive crosshead screw fixed lid. Includes: Base Bracket 8 x heater cable nylon glands 2 x heater feeder cable nylon glands Can terminate up to 16 conductors (8 strip heaters)
0055/020813* 250 x 255 x 120 deep	Post Mounted Off Track Junction Box, Glass-Fibre Reinforced Polyester (GRP) enclosure in light grey with stainless steel captive crosshead screw fixed lid. Includes: Post 4 x heater cable heatshrinkable glands 1 x heater feeder cable heatshrinkable glands Can terminate up to 8 conductors (4 strip heaters)
0055/020814* 250 x 255 x 120 deep	Wall Mounted Off Track Junction Box, Glass-Fibre Reinforced Polyester (GRP) enclosure in light grey with stainless steel captive crosshead screw fixed lid. Includes: Wall Bracket 4 x heater cable heatshrin Cable glands 1 x heater feeder heatshrin Cable glands can terminate up to 8 conductors (4 strip heaters)

All sizes are millimetres



Post Mounted Off Track Junction Box
0055/021034



Base Mounted Off Track Junction Box
0055/021036



Post Mounted Off Track Junction Box
0055/020813



Wall Mounted Off Track Junction Box
0055/020814

* Note these items are supplied complete with the relevant mounting post / bracket

28 | Weather Monitoring Equipment

There are 2 approved sources of weather monitoring products for use with Point Heating, the details of which are listed below:

Findlay Irvine Weather Monitoring Items
Network Rail Approval N° PAO5/1639

Catalogue Number	Description
0055/006014	Junction box, for probes WMCU 407M. I540030
0055/009023	Sensor cable, for use with WMCU 307D, 407D and 407M. I020168
0055/027636	Sensor probe for use with WMCU 287, 387 and 307D units. I990394
0055/041005	Temperature probe, with 5 metre cable for use with WMCU 407M and 407D. I993750
0055/041010	Temperature probe, with 10 metre cable for use with WMCU 407M and 407D. I993755
0055/046001	Precipitation sensor, with 3 metre cable for use with WMCU 407M and 407D. I993768
0055/046003	Ambient air temperature sensor, for Icelert Monolog Monitoring System (Optional items) I986147
0055/041013	Rail temperature sensor (hot/cold) for Icelert 407M, with 30 metre cable attached. I993757
0055/056006	Weather monitoring unit 407M, complete (110v) complete with precipitation sensor, excluding monitoring cable and connect. I994501
0055/056007	Probe unit 407M comprises hot and cold rail probes with junction box attached, for WMCU 407M and 407D. I993342
0055/056008	Control unit, WMCU, type 407M only. I996031
0055/056011	Weather monitoring unit 407M, complete (240v) complete with precipitation, excluding monitoring cable and connect. I990661

* Cable lengths can be tailored to meet individual requirements

Samuel James Weather Monitoring items
 Network Rail Approval N° PAO5/00589

Catalogue Number	Description
0055/020300	Weather Monitoring Control Unit, comprising: 3m supply cable, 3m sensor cable, hot rail sensor and flat bottom rail clip, cold rail sensor and flat bottom rail clip, sensor junction box, precipitation sensor and operating instructions.
0055/020301	Controller - TCS004
0055/020302	5m Hot Rail Sensor
0055/020303	10m Hot Rail Sensor
0050/555858	20m Hot Rail Sensor
0055/020304	5m Cold Rail Sensor
0055/020305	10m Cold Rail Sensor
0050/555859	20m Cold Rail Sensor
0055/020306	3m Precipitation Sensor
0055/020307	2 Amp Control Fuse (Pack of 10)
0055/020308	2m Mains/Control Lead
0055/020309	4m Mains/Control Lead
0055/020310	2m Sensor Lead
0055/020311	4m Sensor Lead
0055/020312	2m Auxiliary/Air Temperature Lead
0055/020313	4m Auxiliary/Air Temperature Lead
0055/020314	2m RS232 Lead
0055/020315	4m RS232 Lead
0055/020316	Hot/Cold Rail Fixing Clip (FB Rail)
0055/020317	Hot/Cold Rail Fixing Clip (BH Rail)
0055/020318	Air Sensor
0055/020319	Junction Box
0055/020320	Probe Unit (1X Junction Box, 2 X Probes & 2 X Rail Clips)
0055/020321	Controller Test Unit

Heaters are available for:

- Switch and Stock Rails (Strip Heaters)
- Clamp Lock Bodies (Cartridge Heaters)
- Rail Chairs (Pad Heaters)

Switch and Stock Rail (Strip Heaters) are available in constant wattage or self regulating types with further options of insulated variants for 3 of the rail territories.

Clamp Lock Body heaters (Cartridge Heaters) are common to constant wattage and self regulating.

Rail Chair Heaters (Pad Heaters) are now proving less common but are still readily available and listed within this section.



SAN Heater on HPSS layout with hollow bearers, strip lengths vary and are left or right handed depending on the point layout configuration.

This heater does not currently have NR approval

Strip Heaters – Constant Wattage 2.5mm Conductors 200 Watt per metre 110V

Catalogue Number	Strip Length	Cable Length (m)	Moulded plug	Insulated
*0055/008012	4	1.5	Yes	No
*0055/008013	5	1.5	Yes	No
*0055/008014	6	1.5	Yes	No
0055/008033	3	1.5	Yes	No
0055/020130	4	10	No	No
0055/020131	4	15	No	No
0055/020132	4	20	No	No
0055/020133	4	30	No	No
0055/020134	5	10	No	No
0055/020135	5	15	No	No
0055/020136	5	20	No	No
0055/020137	5	30	No	No
0055/020138	6	10	No	No
0055/020139	6	15	No	No
0055/020140	6	20	No	No
0055/020141	6	30	No	No
0055/020018	4	1.5	Yes	Yes
0055/020019	5	1.5	Yes	Yes
0055/020020	6	1.5	Yes	Yes
0055/020034	2	1.5	Yes	No
0055/020145	4	10	No	Yes
0055/020146	4	15	No	Yes
0055/020147	4	20	No	Yes
0055/020148	4	30	No	Yes
0055/020149	5	10	No	Yes

* 1.5mm Conductors

Shading indicates insulated strip heaters.

Strip Heaters continued

Catalogue Number	Strip Length	Cable Length (m)	Moulded plug	Insulated
0055/020150	5	15	No	Yes
0055/020151	5	20	No	Yes
0055/020152	5	30	No	Yes
0055/020153	6	10	No	Yes
0055/020154	6	15	No	Yes
0055/020155	6	20	No	Yes
0055/020156	6	30	No	Yes

Maintenance and Limited Power Supply Areas – Strip Heaters.

There are instances of existing installations and possible areas involving new installations where power supplies may not support 200W per metre strip heater.

Alternative Strip Heaters are available for such areas as follows:

Strip Heaters – Constant Wattage 2.5mm Conductors 110V

Catalogue Number	Wattage per metre (W)	Cable Strip Length (m)	Cable Length (m)	Moulded plug	Insulated
0055/020033	100	0.5	1.5	Yes	No
0055/008023	100	4	1.5	Yes	No
0055/008024	100	5	1.5	Yes	No
0055/008039	100	6	1.5	Yes	No
0055/020013	150	0.6	1.5	Yes	No
0055/020017	150	1	1.5	Yes	No
0055/020100	150	0.6	1.5	No	No

Clamp Lock Cartridge Heaters

“Pencil” style cartridges are available for the heating of Rail Clamp Point Lock (RCPL) installations where switch and stock relay heating exists. All RCPL cartridges are for cast bodies operating at 110 Volts.

Details are as follows:

Catalogue Number	Wattage (W)	Cable Length (m)	Moulded Plug
0055/020043	200 per metre	1.5	Yes
0050/555684	200 per metre	10	No
0050/555662	200 per metre	15	No
0050/555416	200 per metre	20	No
0050/555686	200 per metre	30	No

Pad Heaters

Underchair points heating pads are 110 volt 100 watt and are placed underneath the slide chairs of the points. This minimises or prevents the build up of snow or the adverse affects of frost and ice.



Pad Heater
Cat no: 0055/026982

Network Rail has deemed Pad Heating as maintenance only, but the items remain readily available for other railway operators.

Catalogue Number	Type
0055/026981	A
0055/026982	B
0055/026983	C
0055/026984	D

Self Regulating Point Heating provides an environmentally efficient system, the temperature controlled current flow offers potential for energy savings.

Kitting is already applied to Self Regulating requirements and they are included in the following details of products.

Cubicle Splitter

Catalogue Number	Graybar Part Number	Description
0055/020801	Gbk1400	Cubicle splitter, 1 x input, 1 x output, complete.
0055/020802	Gbk1401	Cubicle splitter, 1 x input, 2 x output, complete.

Control Cubicles

Catalogue Number	Graybar Part Number	Description
0055/020803	Gb/ar1/1	Cubicle control, 1 phase, 1 point, complete.
0055/020804	Gb/ar1/2	Cubicle control, 1 phase, 2 point, complete.
0055/020805	Gb/ar3/1	Cubicle control, 3 phase, 1 point, complete.
0055/020806	Gb/ar3/2	Cubicle control, 3 phase, 2 point, complete.
0055/020807	Gb/ar3/3	Cubicle control, 3 phase, 3 point, complete.
0055/020808	Gb/ar3/4	Cubicle control, 3 phase, 4 point, complete.
0055/020809	Gb/ar3/5	Cubicle control, 3 phase, 5 point, complete.
0055/020810	Gb/ar3/6	Cubicle control, 3 phase, 6 point, complete.
0055/020811	Gb/ar3/7	Cubicle control, 3 phase, 7 point, complete.
0055/020812	Gb/ar3/8	Cubicle control, 3 phase, 8 point, complete.

Heater Kits - Include Heater Strips & Associated Clips

Catalogue Number	Graybar Part Number	Description
0055/020820	Gbk/120/rt/113/av	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type a
0055/020821	Gbk/120/rt/113/bv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type b
0055/020822	Gbk/120/rt/113/cv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type c
0055/020823	Gbk/120/rt/113/dv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type d
0055/020824	Gbk/120/rt/113/ev	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type e
0055/020825	Gbk/120/rt/113/fv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type f
0055/020826	Gbk/120/rt/113/sg	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type sg
0055/020827	Gbk/120/rt/113/gv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type g
0055/020828	Gbk/120/rt/113/hv	S/r heater kit, 120v, 113lb full depth, w/o slotted jaw blocks, type h
0055/020829	Gbk/120/rt/113/a4	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type a
0055/020830	Gbk/120/rt/113/b4	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type b
0055/020831	Gbk/120/rt/113/c5	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type c
0055/020832	Gbk/120/rt/113/d6	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type d
0055/020833	Gbk/120/rt/113/e8	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type e

0055/020834	Gbk/120/rt/113/f10	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type f
0055/020835	Gbk/120/rt/113/sg	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type sg
0055/020836	Gbk/120/rt/113/ g14	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type g
0055/020837	Gbk/120/rt/113/ h18	S/r heater kit, 120v, 113lb full depth, with slotted jaw blocks, type h
0055/020838	Gbk/120/rt/u54/a4	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type a
0055/020839	Gbk/120/rt/u54/b4	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type b
0055/020840	Gbk/120/rt/u54/c5	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type c
0055/020841	Gbk/120/rt/u54/d6	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type d
0055/020842	Gbk/120/rt/u54/e8	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type e
0055/020843	Gbk/120/rt/u54/f10	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type f
0055/020844	Gbk/120/rt/u54/sg	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type sg
0055/020845	Gbk/120/rt/u54/ g14	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type g
0055/020846	Gbk/120/rt/u54/ h18	S/r heater kit, 120v, uic, shallow depth, with slotted jaw blocks, type h
0055/020847	Gbk/120/rt/95bh/a	S/r heater kit, 120v, bs95 bull head rail, type a
0055/020848	Gbk/120/rt/95bh/b	S/r heater kit, 120v, bs95 bull head rail, type b
0055/020849	Gbk/120/rt/95bh/c	S/r heater kit, 120v, bs95 bull head rail, type c
0055/020850	Gbk/120/rt/95bh/d	S/r heater kit, 120v, bs95 bull head rail, type d
0055/020852	Gbk/120/rt/113/05	S/r heater set, 120v, 0.5m plus clips, heatshield & thermal grease (pk10)

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0055/020895	Gbk/120/7.8/10	Heater 200w/m, self regulating, 7.8m long, insulated sheath, with a 10m tail,
0055/020896	Gbk/120/8.2/10	Heater 200w/m, self regulating, 8.2m long, insulated sheath, with a 10m tail,
0055/020905	Gbk/120/05/sp	Heater strip, self regulating, 0.5 m long with 1.5m lead and plug,
0055/020906	Gbk/120/1/sp	Heater strip, self regulating, 1 m long with 1.5m lead and plug,
0055/020907	Gbk/120/2/sp	Heater strip, self regulating, 2 m long with 1.5m lead and plug,
0055/020908	Gbk/120/3/sp	Heater strip, self regulating, 3 m long with 1.5m lead and plug,
0055/020909	Gbk/120/4/sp	Heater strip, self regulating, 4 m long with 1.5m lead and plug,
0055/020910	Gbk/120/4.2/sp	Heater strip, self regulating, 4.2 m long with 1.5m lead and plug,
0055/020911	Gbk/120/4.4/sp	Heater strip, self regulating, 4.4 m long with 1.5m lead and plug,
0055/020912	Gbk/120/4.6/sp	Heater strip, self regulating, 4.6 m long with 1.5m lead and plug,
0055/020913	Gbk/120/4.8/sp	Heater strip, self regulating, 4.8 m long with 1.5m lead and plug,
0055/020914	Gbk/120/5/sp	Heater strip, self regulating, 5m long with 1.5m lead and plug,
0055/020915	Gbk/120/5.2/sp	Heater strip, self regulating, 5.2m long with 1.5m lead and plug,
0055/020916	Gbk/120/5.4/sp	Heater strip, self regulating, 5.4m long with 1.5m lead and plug,
0055/020917	Gbk/120/5.6/sp	Heater strip, self regulating, 5.6m long with 1.5m lead and plug,
0055/020918	Gbk/120/5.8/sp	Heater strip, self regulating, 5.8m long with 1.5m lead and plug,

0055/020919	Gbk/120/6/sp	Heater strip, self regulating, 6m long with 1.5m lead and plug,
0055/020920	Gbk/120/6.2/sp	Heater strip, self regulating, 6.2m long with 1.5m lead and plug,
0055/020921	Gbk/120/6.4/sp	Heater strip, self regulating, 6.4m long with 1.5m lead and plug,
0055/020922	Gbk/120/6.6/sp	Heater strip, self regulating, 6.6m long with 1.5m lead and plug,
0055/020923	Gbk/120/6.8/sp	Heater strip, self regulating, 6.8m long with 1.5m lead and plug,
0055/020924	Gbk/120/7/sp	Heater strip, self regulating, 7m long with 1.5m lead and plug,
0055/020925	Gbk/120/7.2/sp	Heater strip, self regulating, 7.2m long with 1.5m lead and plug,
0055/020926	Gbk/120/7.4/sp	Heater strip, self regulating, 7.4m long with 1.5m lead and plug,
0055/020927	Gbk/120/7.6/sp	Heater strip, self regulating, 7.6m long with 1.5m lead and plug,
0055/020928	Gbk/120/7.8/sp	Heater strip, self regulating, 7.8m long with 1.5m lead and plug,
0055/020929	Gbk/120/8/sp	Heater strip, self regulating, 8m long with 1.5m lead and plug,
0055/020930	Gbk/120/8.2/sp	Heater strip, self regulating, 8.2m long with 1.5m lead and plug,
0055/020931	Gbk/120/8.4/sp	Heater strip, self regulating, 8.4m long with 1.5m lead and plug,
0055/020932	Gbk/120/8.6/sp	Heater strip, self regulating, 8.6m long with 1.5m lead and plug,
0055/020933	Gbk/120/8.8/sp	Heater strip, self regulating, 8.8m long with 1.5m lead and plug,
0055/020934	Gbk/120/9/sp	Heater strip, self regulating, 9m long with 1.5m lead and plug,

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0055/020935	Gbk/120/10/sp	Heater strip, self regulating, 10m long with 1.5m lead and plug,
0055/020936	Gbk/120/11/sp	Heater strip, self regulating, 11m long with 1.5m lead and plug,
0055/020937	Gbk/120/12/sp	Heater strip, self regulating, 12m long with 1.5m lead and plug,
0055/020938	Gbk/120/13/sp	Heater strip, self regulating, 13m long with 1.5m lead and plug,
0055/020939	Gbk/120/14/sp	Heater strip, self regulating, 14m long with 1.5m lead and plug,
0055/020940	Gbk/120/15/sp	Heater strip, self regulating, 15m long with 1.5m lead and plug,
0055/020941	Gbk/120/16/sp	Heater strip, self regulating, 16m long with 1.5m lead and plug,
0055/020942	Gbk/120/17/sp	Heater strip, self regulating, 17m long with 1.5m lead and plug,
0055/020943	Gbk/120/18/sp	Heater strip, self regulating, 18m long with 1.5m lead and plug,
0055/020944	Gbk/120/05/lp	Heater strip, self regulating, 0.5m long with 3m lead and plug,
0055/020945	Gbk/120/1/lp	Heater strip, self regulating, 1m long with 3m lead and plug,
0055/020946	Gbk/120/2/lp	Heater strip, self regulating, 2m long with 3m lead and plug,
0055/020947	Gbk/120/3/lp	Heater strip, self regulating, 3m long with 3m lead and plug,
0055/020948	Gbk/120/4/lp	Heater strip, self regulating, 4m long with 3m lead and plug,
0055/020949	Gbk/120/4.2/lp	Heater strip, self regulating, 4.2m long with 3m lead and plug,
0055/020950	Gbk/120/4.4/lp	Heater strip, self regulating, 4.4m long with 3m lead and plug,

0055/020951	Gbk/120/4.6/lp	Heater strip, self regulating, 4.6m long with 3m lead and plug,
0055/020952	Gbk/120/4.8/lp	Heater strip, self regulating, 4.8m long with 3m lead and plug,
0055/020953	Gbk/120/5/lp	Heater strip, self regulating, 5m long with 3m lead and plug,
0055/020954	Gbk/120/5.2/lp	Heater strip, self regulating, 5.2m long with 3m lead and plug,
0055/020955	Gbk/120/5.4/lp	Heater strip, self regulating, 5.4m long with 3m lead and plug,
0055/020956	Gbk/120/5.6/lp	Heater strip, self regulating, 5.6m long with 3m lead and plug,
0055/020957	Gbk/120/5.8/lp	Heater strip, self regulating, 5.8m long with 3m lead and plug,
0055/020958	Gbk/120/6/lp	Heater strip, self regulating, 6m long with 3m lead and plug,
0055/020959	Gbk/120/6.2/lp	Heater strip, self regulating, 6.2m long with 3m lead and plug,
0055/020960	Gbk/120/6.4/lp	Heater strip, self regulating, 6.4m long with 3m lead and plug,
0055/020961	Gbk/120/6.6/lp	Heater strip, self regulating, 6.6m long with 3m lead and plug,
0055/020962	Gbk/120/6.8/lp	Heater strip, self regulating, 6.8m long with 3m lead and plug,
0055/020963	Gbk/120/7/lp	Heater strip, self regulating, 7m long with 3m lead and plug,
0055/020964	Gbk/120/7.2/lp	Heater strip, self regulating, 7.2m long with 3m lead and plug,
0055/020965	Gbk/120/7.4/lp	Heater strip, self regulating, 7.4m long with 3m lead and plug,
0055/020966	Gbk/120/7.6/lp	Heater strip, self regulating, 7.6m long with 3m lead and plug,

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0055/020967	Gbk/120/7.8/lp	Heater strip, self regulating, 7.8m long with 3m lead and plug,
0055/020968	Gbk/120/8/lp	Heater strip, self regulating, 8m long with 3m lead and plug,
0055/020969	Gbk/120/8.2/lp	Heater strip, self regulating, 8.2m long with 3m lead and plug,
0055/020970	Gbk/120/8.4/lp	Heater strip, self regulating, 8.4m long with 3m lead and plug,
0055/020971	Gbk/120/8.6/lp	Heater strip, self regulating, 8.6m long with 3m lead and plug,
0055/020973	Gbk/120/8.8/lp	Heater strip, self regulating, 8.8m long with 3m lead and plug,
0055/020975	Gbk/120/9/lp	Heater strip, self regulating, 9m long with 3m lead and plug,
0055/020976	Gbk/120/10/lp	Heater strip, self regulating, 10m long with 3m lead and plug,
0055/020977	Gbk/120/11/lp	Heater strip, self regulating, 11m long with 3m lead and plug,
0055/020979	Gbk/120/12/lp	Heater strip, self regulating, 12m long with 3m lead and plug,
0055/020980	Gbk/120/13/lp	Heater strip, self regulating, 13m long with 3m lead and plug,
0055/020981	Gbk/120/14/lp	Heater strip, self regulating, 14m long with 3m lead and plug,
0055/020982	Gbk/120/15/lp	Heater strip, self regulating, 15m long with 3m lead and plug,
0055/020983	Gbk/120/16/lp	Heater strip, self regulating, 16m long with 3m lead and plug,
0055/020984	Gbk/120/17/lp	Heater strip, self regulating, 17m long with 3m lead and plug,
0055/020986	Gbk/120/18/lp	Heater strip, self regulating, 18m long with 3m lead and plug,

0055/020988	Gbk/120/05/10	Heater strip, self regulating, 0.5m long with 10m free end lead,
0055/020989	Gbk/120/1/10	Heater strip, self regulating, 1m long with 10m free end lead,
0055/020990	Gbk/120/2/10	Heater strip, self regulating, 2m long with 10m free end lead,
0055/020991	Gbk/120/3/10	Heater strip, self regulating, 3m long with 10m free end lead,
0055/020992	Gbk/120/4/10	Heater strip, self regulating, 4m long with 10m free end lead,
0055/020993	Gbk/120/4.2/10	Heater strip, self regulating, 4.2m long with 10m free end lead,
0055/020994	Gbk/120/4.4/10	Heater strip, self regulating, 4.4m long with 10m free end lead,
0055/020996	Gbk/120/4.6/10	Heater strip, self regulating, 4.6m long with 10m free end lead,
0055/020997	Gbk/120/4.8/10	Heater strip, self regulating, 4.8m long with 10m free end lead,
0055/020999	Gbk/120/5/10	Heater strip, self regulating, 5m long with 10m free end lead,
0055/021001	Gbk/120/5.2/10	Heater strip, self regulating, 5.2m long with 10m free end lead,
0055/021002	Gbk/120/5.4/10	Heater strip, self regulating, 5.4m long with 10m free end lead,
0055/021003	Gbk/120/5.6/10	Heater strip, self regulating, 5.6m long with 10m free end lead,
0055/021004	Gbk/120/5.8/10	Heater strip, self regulating, 5.8m long with 10m free end lead,
0055/021006	Gbk/120/6/10	Heater strip, self regulating, 6m long with 10m free end lead,
0055/021007	Gbk/120/6.2/10	Heater strip, self regulating, 6.2m long with 10m free end lead,

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0055/021008	Gbk/120/6.4/10	Heater strip, self regulating, 6.4m long with 10m free end lead,
0055/021009	Gbk/120/6.6/10	Heater strip, self regulating, 6.6m long with 10m free end lead,
0055/021010	Gbk/120/6.8/10	Heater strip, self regulating, 6.8m long with 10m free end lead,
0055/021011	Gbk/120/7/10	Heater strip, self regulating, 7m long with 10m free end lead,
0055/021012	Gbk/120/7.2/10	Heater strip, self regulating, 7.2m long with 10m free end lead,
0055/021013	Gbk/120/7.4/10	Heater strip, self regulating, 7.4m long with 10m free end lead,
0055/021014	Gbk/120/7.6/10	Heater strip, self regulating, 7.6m long with 10m free end lead,
0055/021015	Gbk/120/7.8/10	Heater strip, self regulating, 7.8m long with 10m free end lead,
0055/021016	Gbk/120/8/10	Heater strip, self regulating, 8m long with 10m free end lead,
0055/021017	Gbk/120/8.2/10	Heater strip, self regulating, 8.2m long with 10m free end lead,
0055/021018	Gbk/120/8.4/10	Heater strip, self regulating, 8.4m long with 10m free end lead,
0055/021019	Gbk/120/8.6/10	Heater strip, self regulating, 8.6m long with 10m free end lead,
0055/021020	Gbk/120/8.8/10	Heater strip, self regulating, 8.8m long with 10m free end lead,
0055/021021	Gbk/120/9/10	Heater strip, self regulating, 9m long with 10m free end lead,
0055/021022	Gbk/120/10/10	Heater strip, self regulating, 10m long with 10m free end lead,
0055/021023	Gbk/120/11/10	Heater strip, self regulating, 11m long with 10m free end lead,

0055/021024	Gbk/120/12/10	Heater strip, self regulating, 12m long with 10m free end lead,
0055/021025	Gbk/120/13/10	Heater strip, self regulating, 13m long with 10m free end lead,
0055/021026	Gbk/120/14/10	Heater strip, self regulating, 14m long with 10m free end lead,
0055/021027	Gbk/120/15/10	Heater strip, self regulating, 15m long with 10m free end lead,
0055/021028	Gbk/120/16/10	Heater strip, self regulating, 16m long with 10m free end lead,
0055/021029	Gbk/120/17/10	Heater strip, self regulating, 17m long with 10m free end lead,
0055/021030	Gbk/120/18/10	Heater strip, self regulating, 18m long with 10m free end lead,

Junction Boxes

Catalogue Number	Graybar Part Number	Description
0055/021034	Gbk1493p	Box junction, post mounted, grp enclosure,
0055/021035	Gbk1493w	Box junction, wall mounted, grp enclosure,
0055/021036	Gbk1493b	Box junction, base mounted, grp enclosure,

Cartridge Heater

Catalogue Number	Graybar Part Number	Description
0055/021037	Gbk1096	Heater cartridge, 200w, with small moulded plug for clamplocks.

Points heating harness, with plug and rewirable socket

Catalogue Number	Description
0055/026969	8 core, 4 way
0055/026968	8 core, 5 way
0055/026967	8 core, 6 way
0055/026966	8 core, 7 way
0055/026965	8 core, 8 way
0055/026964	8 core, 9 way
0055/026963	8 core, 10 way
0055/026971	8 core, 11 way
0055/026972	8 core, 12 way

Points heating harness, with free end (non preferred solution)

Catalogue Number	Description
0055/026976	8 core, 4 way
0055/026977	8 core, 5 way
0055/026978	8 core, 6 way
0055/026974	8 core, 7 way
0055/026979	8 core, 8 way
0055/026975	8 core, 9 way
0055/026980	8 core, 10 way
0055/027034	8 core, 11 way
0055/026998	8 core, 12 way

Points heating harness, with free end

Catalogue Number	Description
0055/027036	2 core, 4 way
0055/027037	2 core, 5 way
0055/027038	2 core, 6 way
0055/027039	2 core, 7 way
0055/027040	2 core, 8 way
0055/027041	2 core, 9 way
0055/027042	2 core, 10 way
0055/027043	2 core, 11 way
0055/027044	2 core, 12 way
0055/027045	2 core, 13 way
0055/027046	2 core, 14 way
0055/027047	2 core, 15 way

TCU to Rewireable Socket

Catalogue Number	Description
0006/150002	1.5sq mm 4 core EPR PCP flexible cable
0006/153102	1.55sq mm 8 core EPR PCP flexible cable
0006/153103	4.00sq mm 8 core EPR PCP flexible cable

* HO7 RNF Cables should not be used in this application

Rewireable sockets and other items

Catalogue Number	Description
0055/027676	4 way, 8 core, 4sq mm
0055/027678	8 way, 8 core, 4sq mm
0055/027677	8 way, 8 core, 1.5 sq mm
0055/027679	4 way, 8 core, 1.5 sq mm
0054/088726	2 way, 1.5sq mm to suit 4 core cable
0055/025991	Blanking Cap
0055/025926	Adaptor 5A Unfused
0055/025927	Adaptor 5A fused
0055/027591	Extension lead 0.5 m long, 2 core cable
0055/022001	Spacer bush, plastic
0055/039619	Z termination bracket to suit 4 way socket
0055/051313	Plug kit rewireable, to suit 2 core heater cable, 4 way

Power Cables

Catalogue Number	Description	
0006/150622	16 CSA mm ² 3 core XLPE, SWA, PVC sheath aluminium conductor	Aluminium Conductor
0006/150682	35 CSA mm ² 3 core XLPE, SWA, PVC sheath aluminium conductor	
0006/150700	50 CSA mm ² 3 core XLPE, SWA, PVC sheath aluminium conductor	
0006/150722	70 CSA mm ² 3 core XLPE, SWA, PVC sheath aluminium conductor	
0006/150750	95 CSA mm ² 3 core XLPE, SWA, PVC sheath aluminium conductor	
0006/150630	16 CSA mm ² 3 core XLPE, SWA, PVC sheath copper conductor	Copper Conductor
0006/150690	35 CSA mm ² 3 core XLPE SWA PVC sheath copper conductor	
	50 CSA mm ² 3 core XLPE SWA PVC sheath copper conductor	
0006/150725	70 CSA mm ² 3 core XLPE SWA PVC sheath copper conductor	
0006/150723	95 CSA mm ² 3 core XLPE SWA PVC sheath copper conductor	

Points Heating Cable - Eland



Application	Designed for power distribution in points heating systems. These heavy duty cables offer protection from abrasion and mechanical impact whilst maintaining flexibility to ease installation.
Standards	NR/SP/ELP/40045 (formerly RT/E/PS/40045) BS7919
Conductor	Class 5 flexible Tinned Copper conductors to BS EN 60228:2005 (previously BS6360)
Insulation	EPR (Ethylene Propylene Rubber) insulation Type GP4 to BS7655
Separator	Unspecified Material
Sheath	PCP (Polychloroprene) Type EM2 to BS7655
Sheath Colour	Black
Core Identification	4 cores (in order of rotation) Yellow/Yellow, Blue/Blue
	8 cores (in order of rotation) Yellow/Yellow, Blue/Blue, Brown/Brown, Black/Black

Dimensions

Catalogue Number	Number of Cores	Nominal Conductor Area mm ²	No. and Diameter of Strands #/mm	Overall Diameter Min mm	Overall Diameter Max mm	Nominal Weight kg/kM	Thickness of Insulation
0006/150002	4	1.5	30/0.25	13.8	14.30	220	0.8
	4	2.5	50/0.25	16.00	16.50	390	0.9
	4	4.0	56/0.30	18.00	18.50	420	1.0
0006/153102	8	1.5	30/0.25	17.90	18.50	460	0.8
	8	2.5	50/0.25	21.00	21.80	690	0.9
0006/153103	8	4.0	56/0.30	22.60	23.60	830	1.0
	8	6.0	84/0.30	24.50	25.50	1010	1.0

Conductors

Class 5 flexible conductors for Single Core and Multi Core cables

1	2	3
Nominal Cross Sectional Area mm ²	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of the Conductor
		Metal Coated Wires ohms/Km
1.50	0.26	13.7000
2.50	0.26	8.2100
4.00	0.31	5.0900
6.00	0.31	3.3900

Table in accordance with BS EN 60228:2005 (previously BS6360)

Padlocks & Keys

Type	Padlock Catalogue Number	Key Catalogue Number
3102/EZZ326	0011/043210	0011/048044
RKB222	0086/029004	0086/029002
LT205	0011/044186	0050/001300
JW442	0011/044217	0086/29006
RC27	0011/043354	0011/048051
JC27		
CCC2	0011/043355	0011/048335
BPH	0011/068005	0011/048046
PSI	0011/068204	0011/048048

Cubicles, transformers and potentially TCU's should be secured by padlock. Please note that supply of keys in the RKB and Grandmaster/Submaster range are subject to authorisation by Network Rail prior to order processing.

Girder Clips

Catalogue Number	Description
0054/130005	BC750 Clip, jaw size 17-20mm. 6.5mm hole
0054/130041	BC1000 Clip, jaw size 23-30mm. 6.5mm hole

Expanding Foam

Catalogue Number	Description
0007/037003	Expanding foam to seal ends of troughing

Earthing Materials

Catalogue Number	Description
0054/117510	Copper Rod M10
0054/117550	Driving Tip
0054/117540	Coupling Stud
0054/117532	Clamp
0054/117530	Driving Cap
0050/000426	Copper Earth Plate 900mm x 900mm x 3mm
0050/000427	Copper Earth Plate Lattice 900mm x 900mm x 3mm
0004/026050	Earth Rod Pit, Concrete

Heater Strip Bender Tool

Cat No: 0055/023002



RAIL INFRASTRUCTURE

THE SPECIALIST MAGAZINE FOR THE RAILWAY INFRASTRUCTURE INDUSTRY

Unipart Rail prepares for winter and launches a point heating handbook

The climatic variances of the UK winter (and, in particular, the effect this can have on the smooth operation of the rail network) make it essential that systems are in place to ensure that ice and snow do not disrupt the movement of the point switches that are critical to train movements. The UK rail network is, therefore, being progressively fitted or updated with the latest developments in point heating and Unipart Rail is well positioned to support this initiative.

Expanded portfolio and kitting options

Unipart Rail has now expanded its range of related products and offers a 'one-stop shop' option for all those items required to carry out a complete point heating installation or planned maintenance. To further assist customers, kits of parts have been introduced so complete packages of equipment can arrive on-site ready for installation. This has the added bonus of simplifying the ordering process for customers.

New point heating handbook

The new Unipart Rail point heating handbook is now available and offers at a glance listings of every component used in fitting point layouts - including the option of selecting a kit of parts for any particular length of switch or type of rail. The handbook also provides both options of self-regulating or constant wattage installations.

The service available also guarantees that all available components are from current, approved sources of manufacture. Customers requiring their own particular parts for their specific project needs can also have bespoke kits provided.

Bruce Birkett, Infrastructure Engineer and Project Manager, Carillion Rail, commented: 'The point heating service consists of all the items needed for a complete site installation. Unipart Rail has reduced the complexity of the supply chain and made our work much simpler. The information booklet provides an easy reference for all point heating materials, whilst the additional service of 'package supply' reduces the risk of materials being unavailable at critical installation times.'

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