

Certificate of Acceptance

OFFICIAL

PA05/06494

Manufacturer:
PRYSMIAN GROUP

Issue : 4
Valid From : 27-09-2018
Review Date: 27-09-2023

Cold Pour Resin Joint Kits

Product Description

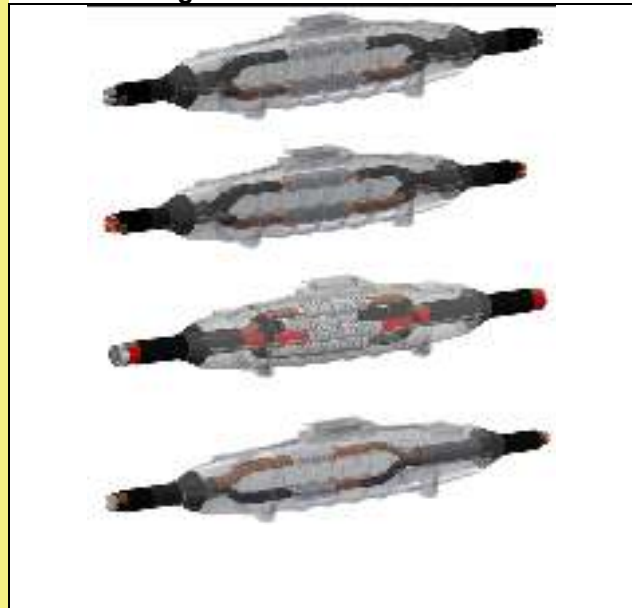
Enhanced non-toxic cold pour resin joint kits for connecting unarmoured signalling power distribution cable in accordance with NR/L2/SIGELP/27423.

The products can be used in various configurations as detailed in the Configuration section of this certificate typically:

1. Connecting unarmoured Aluminium signalling power distribution cable to unarmoured Copper signalling power distribution cable when terminating into Apparatus Housings
2. Connection of legacy aluminium B2 cable to Aluminium cables produced in accordance with NR/L2/SIGELP/27408

Installation accessories for use in assembling these Joint Kits and the range of connectors within them consist of hydraulic crimping tools, die sets and pre-rounding die sets that are specific to the connectors used within these Joint Kits.

Product Image



Scope of Acceptance:

Full Acceptance

Cold Pour Resin Joint Kits are accepted for use to connect Unarmoured Signalling Power Distribution cable in accordance with the manufacturer and user conditions detailed in this certificate.

This certificate is subject to compliance with product configurations detailed in this certificate.

The products supersede previously accepted products listed in earlier issues of this certificate.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Authorised by:



Sheran Sahabandu
Product Acceptance Coordinator



Felix Langley
Network Technical Head of Power Distribution HV/LV

Manufacturer:
PRYSMIAN GROUP

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) Cold Pour Resin Joint Kits shall be manufactured in accordance with NR/L2/SIGELP/27423.
- 2) Each joint will comply with testing requirements in accordance with BS EN 50393 in relation to moisture resistance and BS EN 61238-1 to ensure connectors' performance is in accordance for Class A connector specifications.
- 3) Manufacturers shall provide, as a complete Jointing Kit, the required components to conduct jointing for feeder cables and any other cable that can be expected to be connected to it.
- 4) Manufacturers shall provide copies of Installation Manuals with all products covering installation, testing, maintenance and required tooling.
- 5) Manufacturers shall provide appropriate training in accordance with NR/L2/SIGELP/27423. Training and competency requirements shall be approved by the appropriate Network Rail department.
- 6) Manufacturers shall provide guidance to installers and maintainers for the use of correct and approved tooling. This will ensure that high resistance connections are minimised and maintains expected asset life of the products.
- 7) Cold Pour Resin Joint kits shall be tested in accordance with Manufacturer's production test and inspection schedule and certificate. Production certification testing should be in accordance with manufacturer's Standard Operating Procedures (SOP).
- 8) A Production Test and Inspection Certificate shall be supplied with each product.

User

- 1) Cold Pour Resin Joint Kits shall be installed, tested and maintained in accordance with manufacturer's instructions.
- 2) Jointing Kits shall be selected for the appropriate cable type and size to be connected. Installers and maintainers shall conduct jointing and termination of cables in accordance with as provided manufacturer's installation instructions. Selection and use of approved and correct tooling shall be in accordance with manufacturer's instructions. Correct installation practices shall be maintained to prevent oxidation at the point of termination to minimise the likelihood of high resistance connections and maintain the asset life of the installation.
- 3) Installers and maintainers shall have access to training manuals/briefing notes and shall have had an appropriate level of training and briefing before using products detailed within this certificate.
- 4) Installers and maintainers shall conduct jointing and termination of cables using the appropriate PPE equipment in accordance with manufacturer's instructions and Network Rail policy.
- 5) Not to be used in subsurface environments in accordance with section 12 stations and locations.
- 6) No reworking of Aluminium connectors is permitted.
- 7) **Bi-Metallic Connectors** must be used when jointing Aluminium cable to Copper cable tails when Signalling Power Distribution Cable is entering an Apparatus Housing.
- 8) G10/E10 Series of Compression Crimp Heads are to be used with all Crimp Dies and Pre-Rounding Dies.

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Product Configuration

System or Complete Assembly

Notes

Abbreviation	Description
Cu	Copper Conductor
Al	Aluminium Conductor
SAC	Solid Aluminium Conductor
FAC	Stranded Aluminium Conductor

New Parts Configuration

System application configuration

Products detailed within the configuration listings are suitable for the connection of Unarmoured Signalling Power Distribution Cables. Suitable selection of products will allow for the connection of Aluminium Unarmoured Signalling Power Distribution Cables to Copper Unarmoured Signalling Power Distribution Cables when terminating into approved apparatus housings.

- 1.1 Selection of the appropriate Joint Kit will enable connection between same CSA 2 and 4 core Aluminium Unarmoured Cable using appropriate through connections within the joint kit.
- 1.2 Selection of the appropriate Jointing Kits also enables 2 core Aluminium Unarmoured Cables to be reduced to smaller Copper Unarmoured cables to facilitate termination into apparatus housings. These joint kits use bi-metallic Aluminium/Copper reducer connectors.
- 1.3 Selection of the appropriate Joint Kit will enable connection between same CSA 2 and 4 core Copper Unarmoured Cable using appropriate through connections within the joint kit.
- 1.4 Selection of the appropriate transition Joint Kit will enable connection between same CSA 2 core legacy Aluminium B2 cable to Aluminium cable produced in accordance with NR/L2/SIGELP/27408 using appropriate through connections within the joint kit.
- 1.5 Selection and use of approved and correct tooling shall be in accordance with manufacturer's instructions. Products as detailed are only to be used with the specific manufacturer's tooling listed in the product configuration.

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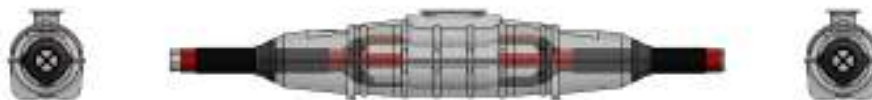
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Aluminium Straight-Through Resin Joint Kits - 2 Core to 2 Core
For Unarmoured Aluminium Cables to NR/L2/SIGELP/27408



Part No.	Description	Conductor Cross-Sectional Area (mm ²)	Catalogue Number
RPJ016A2S	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 2 Core Solid Aluminium (SAC)	16	0054/213266
RPJ025A2S		25	0054/213267
RPJ035A2S		35	0054/213268
RPJ050A2S		50	0054/213551
RPJ070A2S		70	0054/213552
RPJ095A2S		95	0054/213553
RPJ120A2S		120	0054/213554
RPJ150A2S		150	0054/213555
RPJ185A2S		185	0054/213556
RPJ120A2F	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 2 Core Stranded Aluminium (FAC)	120	0054/213557
RPJ150A2F		150	0054/213558
RPJ185A2F		185	0054/213559

Aluminium Straight-Through Resin Joint Kits - 4 Core To 4 Core
For Unarmoured Aluminium Cables to NR/L2/SIGELP/27408



Part No.	Description	Conductor Cross-Sectional Area (mm ²)	Catalogue Number
RPJ016A4S	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 4 Core Solid Aluminium (SAC)	16	0054/213560
RPJ025A4S		25	0054/213561
RPJ035A4S		35	0054/213562
RPJ050A4S		50	0054/213563
RPJ070A4S		70	0054/213564
RPJ095A4S		95	0054/213565
RPJ120A4S		120	0054/213566
RPJ150A4S		150	0054/213567
RPJ185A4S		185	0054/213568
RPJ120A4F	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 4 Core Stranded Aluminium (FAC)	120	0054/213569
RPJ150A4F		150	0054/213570
RPJ185A4F		185	0054/213571

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Copper Straight-Through Resin Joint Kits - 2 Core To 2 Core

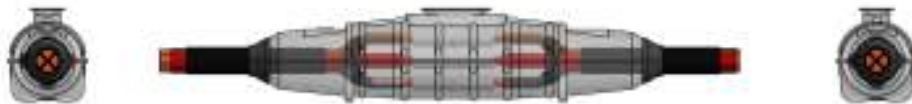
For Unarmoured Copper Cables to NR/L2/SIGELP/27408 or metric B2 Cable to RT/E/PS/00005



Part No.	Description	Conductor Cross-Sectional Area (mm ²)	Catalogue Number
RPJ010C2	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 2 Core Copper	10	0054/213572
RPJ016C2		16	0054/213573
RPJ025C2		25	0054/213574
RPJ035C2		35	0054/213575
RPJ050C2		50	0054/213576
RPJ070C2		70	0054/213577
RPJ095C2		95	0054/213578
RPJ120C2		120	0054/213579
RPJ150C2		150	0054/213580
RPJ185C2		185	0054/213581

Copper Straight-Through Resin Joint Kits - 4 Core to 4 Core.

For Unarmoured Copper Cables to NR/L2/SIGELP/27408 or metric B2 Cable to RT/E/PS/00005



Part No.	Description	Conductor Cross-Sectional Area (mm ²)	Catalogue Number
RPJ010C4	Cold Pour Resin Straight Through Joint Kits for NR/L2/SIGELP/27408 Cables 4 Core Copper	10	0054/213582
RPJ016C4		16	0054/213583
RPJ025C4		25	0054/213584
RPJ035C4		35	0054/213585
RPJ050C4		50	0054/213586
RPJ070C4		70	0054/213587
RPJ095C4		95	0054/213588
RPJ120C4		120	0054/213589
RPJ150C4		150	0054/213590
RPJ185C4		185	0054/213591

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Aluminium Transition Resin Joint Kits - 2 Core to 2 Core

For Legacy Unarmoured Aluminium B2 Cable to RT/E/PS/00005 Transition to Unarmoured Aluminium Cables to NR/L2/SIGELP/27408



Part No.	Description	Conductor Cross-Sectional Area (mm ²)	Catalogue Number
RPJ016FTS2	Cold Pour Resin Transition Joint Kits – 2 Core Unarmoured Stranded Aluminium (B2 metric RT/E/PS/00005) to 2 Core Solid Aluminium (NR/L2/SIGELP/27408) Cables	16	0054/213592
RPJ025FTS2		25	0054/213593
RPJ035FTS2		35	0054/213594
RPJ050FTS2		50	0054/213595
RPJ070FTS2		70	0054/213596
RPJ095FTS2		95	0054/213597
RPJ120FTS2		120	0054/213598
RPJ150FTS2		150	0054/213599
RPJ185FTS2		185	0054/213600
RPJ120FTF2	Cold Pour Resin Transition Joint Kits – 2 Core Unarmoured Stranded Aluminium (B2 metric RT/E/PS/00005) to 2 Core Stranded Aluminium (NR/L2/SIGELP/27408) Cables	120	0054/213601
RPJ150FTF2		150	0054/213602
RPJ185FTF2		185	0054/213603

Aluminium to Copper Bimetal Reducing Joint Kit – 2 Core to 2 Core

For Unarmoured Aluminium and Copper Cables to NR/L2/SIGELP/27408



Part No.	Description	Conductor Cross Sectional Area Al/Cu (mm ²)	Catalogue Number
RPJ0700252B2S	Cold Pour Resin Bimetal Transition Reducing Joint Kits for NR/L2/SIGELP/27408 Cables 2 Core Solid Aluminium (SAC) to 2 Core Copper	70/25	0054/213604
RPJ0950252B2S		95/25	0054/213605
RPJ0950502B2S		95/50	0054/213606
RPJ1200252B2S		120/25	0054/213607
RPJ1200502B2S		120/50	0054/213608
RPJ1500252B2S		150/25	0054/213609
RPJ1500502B2S		150/50	0054/213610
RPJ1850252B2S		185/25	0054/213611
RPJ1850502B2S		185/50	0054/213612
RPJ1200252B2F		Cold Pour Resin Bimetal Transition Reducing Joint Kits for NR/L2/SIGELP/27408 Cables 2 Core Stranded Aluminium (FAC) to 2 Core Copper	120/25
RPJ1200502B2F	120/50		0054/213614
RPJ1500252B2F	150/25		0054/213615
RPJ1500502B2F	150/50		0054/213616

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RPJ1850252B2F		185/25	0054/213617
RPJ1850502B2F		185/50	0054/213618

Pre-Rounding Dies

Part No.	Description/ Image	Conductor size (mm ²)	Catalogue Number
UD25PO	Pre-Rounding Dies 	25	0054/213619
UD35PO		35	0054/213620
UD50PO		50	0054/213621
UD70PO		70	0054/213622
UD95PO		95	0054/213623
UD120PO		120	0054/213624
UD150PO		150	0054/213625
UD185PO		185	0054/213626

Crimp Dies

Part No.	Description	Conductor size (mm ²)			Catalogue Number
		SAC	FAC	Cu	
U6DHX	Crimp dies 			10	0054/213627
U8DHX				16	0054/213628
U10DHX		16/25		25	0054/213629
U12DHX		35		35	0054/213630
U14DHX		50		50	0054/213631
U16DHX		70		70	0054/213632
U18DHX		95		95	0054/213633
U20DHX				120	0054/213634
U22DHX		120/150	120	150	0054/213635
U25DHX		185	150	185	0054/213636
U28DHX			185		0054/213637

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Crimping Tools



Part No.	Description	Catalogue No.
G10H	G10 Compression Crimp Head (use with Hydraulic Foot Pump FP10-2)	054/212728
E6-3000	Electro-Hydraulic Crimper (Battery Operated)	054/212729
G10TS	Hydraulic Crimper (Hand Tool)	054/212730

Crimping Tool Accessories

Part No.	Description	Catalogue No.
FP10-2	Hydraulic Foot Pump	054/212731
BX13	Electrical Conductive Abrasive Grease	054/212732
BMC35	Cable Cutting and Stripping Tool (ratchet up to 35mm)	054/212733
BMR80C	Hand Ratchet Cutter	054/212734
E10C	Hydraulic Cutting Head (use with all manual and powered Crimper Tools)	054/212735
E10CSB	Hydraulic Cutting Head Spare Blade	054/212736
UNI25+	Cable Stripping Tool (Outer Sheath Stripper for 25mm diameter cable and above)	054/212737
UNI40	Cable Stripping Tool (Outer Sheath Stripper for 19 to 40mm diameter cable)	054/212738
UNIB1	Spare Cable Stripper blades for UNI40	054/212739
UNIB2	Spare Cable Stripper blades for UNI25+	054/212740

Crimping Accessories

Part No.	Description	Catalogue No.
HPWIPE	Cleansing Wipe Pack	054/212741
CBSTJ4	J4 Conductor Bending/Setting Tool. 16 sqmm – 70 sqmm (to create cable conductor spread clearance between the conductors within the joint)	054/212742
CBSTJ5	J5 Conductor Bending/Setting Tool. 95 sqmm – 185 sqmm (to create cable conductor spread clearance between the conductors within the joint)	054/212743
XE003402502N	Temflex™ PVC Tape	054/212744
12862002	Self-Adhesive Foam Seal	054/212745
F59300020371	Mastic Sealing Strip	054/212746
U692328	Aluminium Oxide Abrading Strip	054/212747
RPJSTM	Jointers Setting Tape Measure	054/212748
U7101-702	Mixing Gloves	054/212749

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
NR App-1	Network Rail Data Pack	2	11-12-2016	1
---	Prysmian Group Compliance BS 7609	2	11-12-2016	1
---	Prysmian Group Compliance NR/L2/SIGELP/2708[2]	2	11-12-2016	1
---	Prysmian Group Compliance NR/L2/SIGELP/2723[1]	2	11-12-2016	1
---	Prysmian Group Compliance PA05/06494	2	11-12-2016	1
---	Engineering Validation & Verification Report		12-01-2016	1
BA0700352B2 S	Bi-metallic Connector Reducing GA Drawing	1	11-12-2015	1
BAP120AS	Aluminium Cable Link 120mm Stranded Al GA Drawing	1		1
MRPJ4A	Enhanced Resin Joint J4 Shell, Aluminium Through Connector GA Drawing	1	09-12-2015	1
MRPJ4B	Enhanced Resin Joint J4 Shell, Bi-metallic Connector GA Drawing	1	09-12-2015	1
MRPJ5A	Enhanced Resin Joint J5 Shell, Aluminium Through Connector GA Drawing	1	09-12-2015	1
MRPJ5B	Enhanced Resin Joint J5 Shell, Bi-metallic Connector GA Drawing	1	09-12-2015	1
---	Enhanced JEM™ Resin Joint Kit Label	1	11-01-2016	1
MTBF-1	Prysmian Group Performance RAM Document		11-01-2016	1
Prysmian IPR-1	Prysmian Group IPR Statement		11-01-2016	1
PCLC897	Type Testing Circular Stranded Al Crimp Connector To BS EN 61238-1:2003 Using 150mm ² Stranded Aluminium Conductor		11-01-2016	1
RPJ150	Type Approval Test for Network Rail RPJ150A2F.		11-01-2016	1
	RISQS Certificate of Verification		11-01-2016	1
ISO 9001:2008	BASEC Certificate of Conformity		11-08-2014	1
---	BASEC Certification Schedule		11-08-2014	1
---	LVD List Feb 2012			1
---	REACH Statement		Apr 2015	1
---	RoHS2 Statement		Jan 2015	1
J4	J4 Cold Pour Resin Joint Image		11-08-2014	1
J5	J5 Cold Pour Resin Joint Image		11-08-2014	1
MRPJ4A.jpg	J4 CAD Image		11-08-2014	1
MRPJ5A.jpg	J5 CAD Image		11-08-2014	1
JEM_Liquid	Material Safety Data Sheet – JEM™ Liquid Pack	1	14-02-2012	1
JEM_Powder	Material Safety Data Sheet – JEM™ Resin Powder Pack	1	14-02-2012	1
072015-1	JEM™ Resin Data Sheet	1	07-2015	1
MRPJ-U-1	Enhanced Resin Joint Kit data Sheet	1	11-01-2016	1
RPJ0952AS	Parts List	1	17-02-2016	1
Sponsors submission #2	Requirements folder		10-07-2018	2
	Compliance folder		10-07-2018	2
	GA Drawings folder		10-07-2018	2
	Label Drawings folder		10-07-2018	2

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
	Specification and Supplier Data folder		10-07-2018	2
	Internal Test Records folder		10-07-2018	2
	External Test Records folder		10-07-2018	2
	Quality Approvals folder		10-07-2018	2
	Images folder		10-07-2018	2
	O&M Manual folder		10-07-2018	2
	Data Sheets folder		10-07-2018	2

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
RPJAJI-02	Jointing Instruction – 2 Core Cold Pour Resin Joint Kit (Al/Al Through Connectors)	2	06-01-2016	1
RPJBJI-02	Jointing Instruction – 2 Core Cold Pour Resin Joint Kit (Al/Cu Bi-Metallic Reducing Connectors)	2	06-01-2016	1
RPJBJI-02	2 Core Aluminium Cable (Al/Al Through Connectors) 4 Core Aluminium Cable (Al/Al Through Connectors) 2 Core Copper Cable (Cu/Cu Through Connectors) 4 Core Copper Cable (Cu/Cu Through Connectors) 2 Core Aluminium to 2 Core Copper Cable (Al/Cu Bi-Metallic Reducing Connectors) 2 Core Legacy Aluminium B2 cable to Enhanced Unarmoured cable (Al/Al Through Connectors)	2	06/03/2018	2

Certificate History

Issue	Date	Issue History
1	31-01-2016	First accepted for use
2	13-09-2018	Introduction of new parts configuration and supersession of obsolete parts.
3	27-09-2018	Catalogue numbers changed due to duplication (RPJ016A2S, RPJ025A2S, RPJ035A2S)
4	31/05/2022	Part number update against PADS number 054/212729

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Contact Details

Manufacturer

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Lead Reviewing Engineer

Clare Yeowart
Engineer
Mechanical and Electrical Engineering
– STE

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date via the NR sponsoring applicant.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Network Rail Design for Reliability Standard(DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Product Acceptance or National Supply Chain (NSC) at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to Network Rail Product Acceptance.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement, where the specification and/or Product Acceptance Certificates specify quality assurance classifications for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

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3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Product Acceptance.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Product Acceptance.
- 4) Inform Network Rail Product Acceptance in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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4) Compliance

Railways and Other Guided Systems (ROGS) Regulations

1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations

2) As required in Railway Group Standard RIS-8270-RST, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.

4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail and Road) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.

2) Products may be purchased by Network Rail or its agents, suppliers or contractors.

3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers