

Certificate of Acceptance

OFFICIAL

PA05/01738

Manufacturer:
Hybrid Electrical Solutions

Issue : 6
Valid From : 08/04/2026

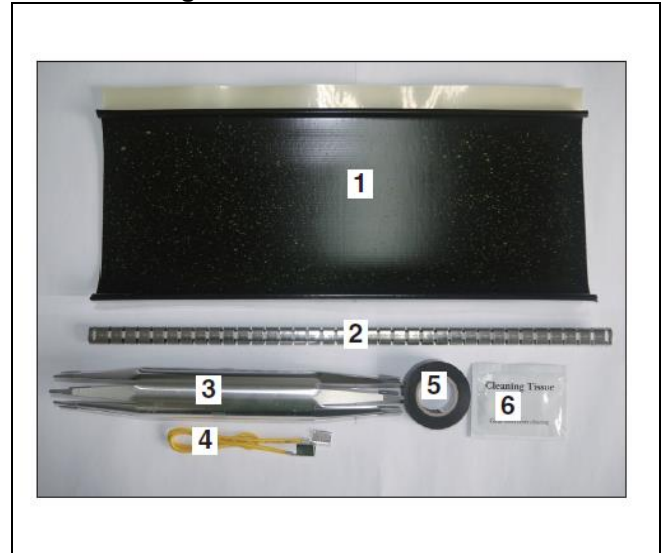
Telecoms Copper Cable Joint Closure

Product Description

Heat shrink closure for telecoms copper cable joints.

A protective sleeve that shrinks tightly forming a watertight seal against moisture and corrosion. It restores insulation and adds durable protection, ensuring long-term reliability of copper cable joints in telecom environments.

Product Image



Scope of Acceptance

Full Acceptance:

For national use on Network Rail Infrastructure.

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:



Aamir Malik
Product Acceptance Coordinator



Graham Smith
Network Technical Head of Telecoms

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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) Refer to General Terms and Conditions.

User

- 1) All equipment is to be installed as per manufacturers recommendations and installation guides.

Product Configuration

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
CC-43/8-150	Joint closure kit for cable range 2-10 pair	0087/037984
CC-55/12-300	Joint closure kit for cable range 10-50 pair	0087/037985
CC-100/25-460	Joint closure kit for cable range 50-100 pair	0087/037986
The below items have high MOQ and long lead times		
BOKT-5S-43/8-75/15	Branching kit For use with part numbers CC-43/8-150 & CC-55/12-300	0087/037987
BOKT-5M-92/25-125/30	Branching kit For use with part numbers CC-100/25-460	0087/037988
XAGA-1000-200/65-720	Heat shrink joint closure for pressurised cables, 200max/65min-720 Gap	0087/037989
XAGA-1000-200/65-900	Heat shrink joint closure for pressurised cables, 200max/65min-900 Gap	0087/037990

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
-	Safety Case submission in response to Network Rail acceptance requirements	1	April 2003	1
-	List of FTN XAGA closures and branching kits; from Passcomm	1	-	2
-	Email from Ian Brown to Tak Lam. Subject. R.E: FTN XAGA Closures	1	October 2009	2
-	Email from Ian Brown to Tak Lam. Subject. PADS number 087/037941 Certificate PA05/01738	1	October 2009	2
-	Recommendation by NR Engineer	1	July 2011	4
XAGA-1000-200/65-900	Product Data Sheet	1	March 2012	5
XAGA-1000-200/65-720	Product Data Sheet	1	March 2012	5

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Installation manual	SIC550 HEATSHRINKABLE CLOSURE INSTALLATION MANUAL	01	31/03/2026	1

Certificate History

Issue	Date	Issue History
1	April 2003	First accepted for use.
2	November 2009	Second acceptance in order to clarify part numbers and accepted kits.
3	May 2010	Third acceptance certificate to capture a change of manufacturers details and revised part numbers.
4	September 2011	Manufacturer details changed from Tyco Electronics (UK) Ltd to Passcomm Ltd and product configuration updated.
5	March 2012	Re-issued to add new parts in products configurations.
6	April 2026	Update to new certificate format. Update to manufacturer name from Passcomm to Hybrid Electrical Solutions.

Contact Details

Supplier

Hybrid Electrical Solutions
danielle.sutch@hybrid-es.co.uk
sales@hybrid-es.co.uk

Applicant

Stephen Collins
Stephen.collins@networkrail.co.uk

Lead Reviewing Engineer

Mark Baker
Mark.baker2@networkrail.co.uk

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the relevant Network Technical 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) If this is a Trial Certificate which includes a Trial Monitoring Period or Trial Expiry date, evidence should be submitted to meet the included trial criteria before the date has passed for the Lead Reviewing Engineer to assess if the product can be given Full Acceptance. If this cannot be achieved, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance. If this is a Full Certificate and includes a review date, the Product Acceptance team should be contacted via prodacc@networkrail.co.uk to seek guidance.

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 in writing (email prodacc@networkrail.co.uk):
 - 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.

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 sponsoring applicant 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.