

Certificate of Acceptance

PA05/02740

Supplier:
Passcomm Limited

Issue : 4
Valid From : 11/07/2017

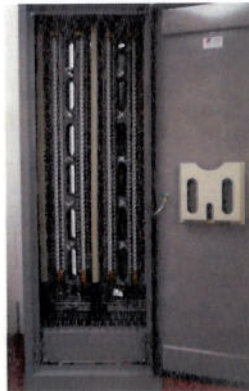
Lineside Telecoms Cabinet and Box on Post Enclosure

Product Descriptions

1) Telecoms free-standing lineside cabinet with full-length doors on opposing sides, without climate control primarily for housing copper cable or fibre cable terminations at the lineside with sufficient resilience to withstand attack by vandals and long-term weather effects. The cabinet mounts on a half-location case base to BRS-SC31.

2) Telecoms free-standing lineside 'Box on Post' with a single door, without climate control, primarily for housing copper cable or fibre cable terminations at the lineside with sufficient resilience to withstand attack by vandals and long-term weather effects. The Box on Post mounts on a small location case base to BRS-SC32.

Product Image



Scope of Acceptance

Full Acceptance

The XCNR1 cabinet and Box on Post variants are accepted for use on Network Rail's Estate to accommodate copper or optical fibre connections within the IP55-rated enclosures providing that suitable connections products are used.

The XCNR1 cabinet and Box on Post variants are accepted for use in ac-electrified, dc-electrified, and non-electrified areas in accordance with the earthing and bonding requirements for lineside furniture in the overhead contact line zone that are set out in NR/L2/ELP/21085.

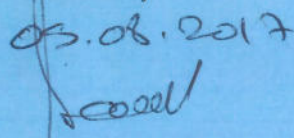
Issue 4 - BoP-D (Large Box on Post) added.

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.

Reviewed by:


Tom Riley
Product Acceptance Coordinator

Authorised by:


Dan Mandoc
Professional 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.

Supplier

- 1) Refer to the general terms and conditions below.

User

- 1) Only termination practices accepted for operation in IP55-rated environments are to be used to terminate copper conductors. Mondragon VX modules are an example.
- 2) Only line powered equipment may be operated in the BoP-D.
- 3) Line-powered equipment may be operated in the BoP-D but the internal temperature will be affected by the power drawn by the equipment. Use the look-up table below to determine whether the internal temperature will suit the maximum operating temperature of the equipment for the power it will draw.
 - To retain an internal temperature of 45°C then equipment drawing up to 70 Watts can be installed.
 - To retain an internal temperature of 50°C then equipment drawing up to 90 Watts can be installed.
 - To retain an internal temperature of 60°C then equipment drawing up to 150 Watts can be installed.
 - To retain an internal temperature of 70°C then equipment drawing up to 250 Watts can be installed.
- 4) Where a BoP-D is mounted on a half-location base the adapter plate is to be used.
- 5) AC mains power is not to be introduced into either the cabinet or BoPs covered by this certificate.
- 6) Where the XCNR1 cabinet or BoP variants are installed within the overhead contact line zone then the user shall comply with the requirements for earthing and equipotential bonding that are set out in NR/L2/ELP/21085.

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
XC NR1 Cabinet		
CAB-XC1-55/3	Cabinet only	087/007525
CAB-HLC-CBK	Half-loc concrete base only	087/007526
CAB-XC1-55/3-B	Cabinet and base	087/007527
BoP (Small Box-on-Post)		
CAB-BOP-AT02-5	BOP only	087/007528
CAB-BOP-POST-AT02-5	POST only	087/007529
CAB-BASE-LSTP	Concrete base only	087/007530
CAB-BOP-30/3-B	BOP, POST & Base	087/007531
BoP-D (Large Box-on-Post)		
KCBOPD	Generic kitted BOP-D, including post (please specify kitting detail when placing order)	087/007541
KCBOWD	Generic kitted BOP-D, Excluding post (please specify kitting detail when placing order)	087/007542
KCBOPD-BUDI-4F4D	BOP-D kitted specifically for the SWiFT project complete with 4-off RJ45 adapters, BUDI-2S fibre termination, and 4-off SC/APC pigtails and adapters	087/007543
KCBOP-D275	Empty BOP-D Box Only w/ kitting options	087/007544

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Part No.	Description	Catalogue No.
CAB-BOP-POST-D275	BOP-D Post Only (for 275 mm depth BOP)	087/007545
CAB-BOP-AP-HLC	Adapter plate to convert CAB-BOP-POST-D275 to fit half-loc base CAB-HLC-CBK	087/007546

Assessed Documentation

Reference	Title	Doc. Rev.	Date
-	Austin Taylor- Network Rail Lineside Copper Cable Enclosures. (XCNR1 cabinet).	1	Undated
-	Passcomm 200pr Cross Connect Lineside Cabinet (XCNR-1). (XCNR1 cabinet).	1	Undated
-	XCNR1 Site Evaluations. Report compiled from Michael McGovern. (XCNR1 cabinet.)	1	05.06.07
-	Austin Taylor XCNR1 Cabinet and BOP Compliance Matrix to NR (issue 6). (XCNR1 cabinet and BOP.)	1	01.11.07
-	Austin Taylor Warranty Product Life Expectancy. (XCNR1 cabinet and BOP.)	1	2007
-	CD containing Austin Taylor in house tests for the XCNR1A cabinet. (To NR/PS/TEL/30107)	1	Undated
-	CD containing Austin Taylor in house tests for the BOP cabinet. (To NR/PS/TEL/30107)	1	Undated
-	Austin Taylor XCNR1 and BOP Acceptance Recommendation Justification.	1	02.11.07
-	Passcomm 200pr Cross Connect Lineside Cabinet (XCNR-1)	1	Undated
-	Passcomm Austin Taylor Technical Documentation, Cabinet XCNR1 & BOP	1	Undated
8354	PARC (Product And Reliability Centre) independent Test House report on the Sinusoidal Vibration test and Internal Temperature test on the BoP-D	1	13/06/2017
-	Passcomm Ltd's paragraph-by-paragraph statement of compliance to NR/L2/TEL/30107.	1	14/06/2017
	Email confirming that Wattage tests have met the requirements for housing Cisco IE-4000 switches	1	05/07/2017

Certificate History

Issue	Date	Issue History
1	29/11/2007	First accepted for use.
2	08/01/2009	Re-issued to amend background , manufacturer's and user clauses.
3	23/09/2011	Manufacturer's details changed from Austen Taylor to Passcomm Ltd.
4	11/07/2017	BoP-D added

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Contact Details

Supplier

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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.

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 Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - 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 Technology Introduction Group 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 the Network Rail Technology Introduction Group.
- 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 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) 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 Technology Introduction Group.
- 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 Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group 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 GE/RT8270, 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 Regulation) 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