

Manufacturer:
Interflex S.L.

Issue : 1
Valid From : 23/08/15

Distributor (UK):
iLECSYS Rail Ltd.

Insulated Flexible Conduits, Mating Glands and Accessories.

Product Description

The product certificate comprises;

- i) Flexible Insulating Conduits in accordance with NR/L2/SIGELP/27421 Issue 1, Product Specification – Flexible Conduits for Class II Based Signalling Power Distribution Systems.
- ii) Conduit Glands in accordance with NR/L2/SIGELP/27422 Issue 1, Product Specification – Cable Glands for use in Class II Based Signalling Power Distribution Systems.

The product range comprises;

- i) Standard flexible insulating conduits;
- ii) Straight mating glands;
- iii) 90° mating glands;
- iv) Conduit sealing system;
- v) System supports (clips and clamps);
- vi) IP68 sealing washers and O-rings.

Product Images



Scope of Acceptance

Full Acceptance

Insulating conduit system with a minimum dielectric strength of 3.5kV, for use in new and upgraded Signalling Power Distribution Systems constructed in accordance with NR/L2/SIGELP/27410 Issue 2.

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.

Vanessa Cumine
Product Acceptance Specialist

Jerry Morling
Head of Signalling

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Head of Power Distribution HV/LV (Acting)

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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.

Distributor

- 1) In order to achieve IP68 protection of the conduit system, PLJ sealing washers and ORJ o-rings of matching size **shall** be supplied with each gland.
- 2) Distributor **shall** supply mating, polyamide metric locknut with each gland.
- 3) PLJ sealing washers, ORJ o-rings and polyamide metric locknut may be supplied separately to support the installation of alternative product approved conduit systems.

User

- 1) Insulating flexible conduits, glands and accessories are suitable for providing mechanical protection and supplementary insulation to new or existing legacy power cabling when installed as part of a Signalling Power Distribution System in accordance with NR/L2/SIGELP/27410 Issue 2.
- 2) A Class II installation is satisfied if the Insulating flexible conduits, glands and accessories are installed with other system components in accordance with NR/L2/SIGELP/27410 Issue 2. Note, the use of Insulating flexible conduits, glands and accessories alone in a Class I installation does **not** provide a protective measure.
- 3) **Not** to be used in subsurface environments in accordance with section 12 stations and locations.
- 4) Insulating flexible conduits, glands and accessories are suitable for installation in marine/aggressive areas.
- 5) Insulating flexible conduits, glands and accessories are non-repairable and **shall** be fully replaced in the event of damage.
- 6) On installation, conduits **shall** be sealed at all entry points via product approved glands or appropriate product approved conduit sealing accessories.
- 7) Conduits and Glands have a dielectric strength of 3.5kV and are suitable for providing supplementary insulation to armoured and unarmoured cables.
- 8) On installation, to achieve IP68 protection of the conduit system, PLJ sealing washers and ORJ o-rings **shall** be used.
- 9) Product approved Insulating adapter/reducer to be used where metallic glands enter ClassII assemblies or where thread size of conduit does not match that of pre-machined enclosure.
- 10) Insulating glands do not have integral cable strain relief and therefore are **not** suitable for main Signalling Power distribution cabling unless alternative cable strain relief is provisioned.
- 11) Conduit system suitable to encase cabling from FSP switchgear to downstream equipment in accordance with NR/L2/SIGELP/27410 Issue 2.

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Product Configuration

Standard Conduit – Suitable for enclosing power distribution cabling in accordance with NR/L2/SIGELP/27410 Issue 2.

Conduit supplied in coils of various lengths and is cut on installation.

Part No.	Description	Image	Catalogue No.
AJT17N	50m of Black, Polyamide, Flexible Conduit, NW 17, 20mm		086/046161
AJT23N	50m of Black, Polyamide, Flexible Conduit, NW 23, 25mm		
AJT29N	50m of Black, Polyamide, Flexible Conduit, NW 29, 32mm		
AJT36N	30m of Black, Polyamide, Flexible Conduit, NW 36, 40mm		
AJT48N	30m of Black, Polyamide, Flexible Conduit, NW 48, 50mm		
AJT70N	10m of Black, Polyamide, Flexible Conduit, NW 70, 80mm		
AJT95N	10m of Black, Polyamide, Flexible Conduit, NW 95, 106mm		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 30m of Black Polyamide flexible conduit – 086/046161-AJT36N-40mm

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Straight Conduit Connectors/Glands – Suitable for use with insulating conduits for entering equipment enclosures where cable strain relief is not required. ORJ o-rings and PLJ sealing washers to be fitted in order to achieve IP68 in accordance with IEC EN 60529

Connector pack contains: Straight gland, ORJ o-ring, PLJ sealing washer, locknut and Conduit retaining clip.

Part No.	Description	Image	Catalogue No.
MIR-17M20N	100 off Straight Connector, Black, Polyamide, Metric Thread, NW17, M20x1.5mm		086/046162
MIR-17M25N	100 off Straight Connector, Black, Polyamide, Metric Thread, NW17, M25x1.5mm		
MIR-23M25N	50 off Straight Connector, Black, Polyamide, Metric Thread, NW23, M25x1.5mm		
MIR-23M32N	50 off Straight Connector, Black, Polyamide, Metric Thread, NW23, M32x1.5mm		
MIR-29M32N	30 off Straight Connector, Black, Polyamide, Metric Thread, NW29, M32x1.5mm		
MIR-29M40N	30 off Straight Connector, Black, Polyamide, Metric Thread, NW29, M40x1.5mm		
MIR-36M40N	20 off Straight Connector, Black, Polyamide, Metric Thread, NW36, M40x1.5mm		
MIR-36M50N	20 off Straight Connector, Black, Polyamide, Metric Thread, NW36, M50x1.5mm		
MIR-48M50N	10 off Straight Connector, Black, Polyamide, Metric Thread, NW48, M50x1.5mm		
MIR-48M63N	10 off Straight Connector, Black, Polyamide, Metric Thread, NW48, M63x1.5mm		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 100 off Straight conduit connectors – 086/046162-MIR-17M20N-M20x1.5mm


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90° Conduit Elbow Connectors/Glands – Suitable for use with conduits for entering equipment at 90° to enclosures where cable strain relief is not required. ORJ o-rings and PLJ sealing washers to be fitted in order to achieve IP68 in accordance with IEC EN 60529

Connector pack contains: 90° gland, ORJ o-ring, PLJ sealing washer, locknut and Conduit retaining clip.

Part No.	Description	Image	Catalogue No.
NEC-17M20N	50 off 90° Elbow Connector, Black, Polyamide, Male Metric Thread, NW17, M20x1.5mm		086/046163
NEC-23M25N	30 off 90° Elbow Connector, Black, Polyamide, Male Metric Thread NW23, M25x1.5mm		
NEC-29M32N	20 off 90° Elbow Connector, Black, Polyamide, Male Metric Thread NW29, M32x1.5mm		
NEC-36M40N	10 off 90° Elbow Connector, Black, Polyamide, Male Metric Thread NW36, M40x1.5mm		
NEC-48M50N	10 off 90° Elbow Connector, Black, Polyamide, Male Metric Thread NW48, M50x1.5mm		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 10 off 90° conduit connectors – 086/046163-NEC-17M20N-M20x1.5mm

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Straight Conduit Connectors/Glands with Female Thread– Suitable for use with conduits for entering equipment enclosures where cable strain relief is not required. Female thread may be used in conjunction with composite through bush. ORJ o-rings and PLJ sealing washers to be fitted in order to achieve IP68 in accordance with IEC EN 60529

Connector pack contains: Straight gland with female thread, ORJ o-ring, PLJ sealing washer and Conduit retaining clip.


Part No.	Description	Image	Catalogue No.
FPR-17M25N	50 off Straight Connector, Black, Polyamide, Female Metric Thread, NW17, M25x1.5mm		086/046164
FPR-23M32N	30 off Straight Connector, Black, Polyamide, Female Metric Thread, NW23, M32x1.5mm		
FPR-29M40N	10 off Straight Connector, Black, Polyamide, Female Metric Thread, NW29, M40x1.5mm		
FPR-36M50N	10 off Straight Connector, Black, Polyamide, Female Metric Thread, NW36, M50x1.5mm		
FPR-48M63N	10 off Straight Connector, Black, Polyamide, Female Metric Thread, NW48, M63x1.5mm		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 30 off Straight female conduit connectors – 086/046164-FPR-23M32N-M32x1.5mm

Conduit Sealing System – Assembly of parts by distributor. The compression fitting assembly is installed at the open entry of conduit to seal the conduit/cable to IP68 in accordance with IEC EN 60529. The assembly prevents rodents and debris from entering the conduit.

Compression Fitting pack contains: IP68 Compression Gland and FPR Straight female conduit Connector.

Part No.	Description	Image	Catalogue No.
ILS100295-001	1 off M25 Conduit Compression Fitting Assembly, Black, Polyamide, NW23, Suitable for Cable diameter 9-17mm.		086/046165
ILS100295-002	1 off M32 Conduit Compression Fitting Assembly, Black, Polyamide, NW29, Suitable for Cable diameter 11-21mm.		
ILS100295-003	1 off M40 Conduit Compression Fitting Assembly, Black, Polyamide, NW36, Suitable for Cable diameter 19-28mm.		
ILS100295-004	1 off M50 Conduit Compression Fitting Assembly, Black, Polyamide, NW48, Suitable for Cable diameter 27-35mm.		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 1 off Conduit sealing system – 086/046165-ILS100295-001-M25


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Heavy Duty Conduit Support – Suitable for conduit system mechanical support. Support can be secured to barwork, backboard or backplate with suitable fixings.

Support pack contains: Steel base plate, cover plate and closing bolts.


Part No.	Description	Image	Catalogue No.
STF-17	1 off Conduit support assembly, polypropylene clamps with internal profile NW17, 20mm.		086/046167
STF-23	1 off Conduit support assembly, polypropylene clamps with internal profile NW23, 25mm.		
STF-29	1 off Conduit support assembly, polypropylene clamps with internal profile NW29, 32mm.		
STF-36	1 off Conduit support assembly, polypropylene clamps with internal profile NW36, 40mm.		
STF-48	1 off Conduit support assembly, polypropylene clamps with internal profile NW48, 50mm.		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 1 off Heavy duty conduit support – 086/046167-STF-29-32mm

Conduit Clip with lid – Suitable for conduit system mechanical support. Clip can be secured to barwork, backboard or backplate with suitable single fixing.

Support pack contains: One piece conduit clip with integral lid.

Part No.	Description	Image	Catalogue No.
SWL-17N	100 off Enclosed conduit clip, Black, Polyamide, with M5 fixing, NW17/18, 20mm.		086/046168
SWL-23N	50 off Enclosed conduit clip, Black, Polyamide, with M6 fixing, NW23, 25mm.		
SWL-29N	30 off Enclosed conduit clip, Black, Polyamide, with M6 fixing, NW29, 32mm.		
SWL-36N	20 off Enclosed conduit clip, Black, Polyamide, with M6 fixing, NW36, 40mm.		
SWL-48N	10 off Enclosed conduit clip, Black, Polyamide, with M6 fixing, NW48, 50mm.		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 20 off Conduit clips with lid – 086/046168-SWL-36N-40mm

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Conduit Clip – Suitable for conduit system mechanical support. Clip can be secured to barwork, backboard or backplate with suitable single fixing or cable tie.

Support pack contains: One piece conduit clip.


Part No.	Description	Image	Catalogue No.
SDN-17N	100 off Open conduit clip, Black, Polyamide, with M5 fixing, NW17/18, 20mm.		086/046169
SDN-23N	50 off Open conduit clip, Black, Polyamide, with M6 fixing, NW23, 25mm.		
SDN-29N	30 off Open conduit clip, Black, Polyamide, with M6 fixing, NW29, 32mm.		
SDN-36N	20 off Open conduit clip, Black, Polyamide, with M6 fixing, NW36, 40mm.		
SDN-48N	10 off Open conduit clip, Black, Polyamide, with M6 fixing, NW48, 50mm.		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 10 off Conduit clips – 086/046169-SDN-48N-50mm

Metric O-ring – NBR70 Elastomer O-ring for IP68 sealing of conduit to gland. To be placed on first groove of conduit.

Pack contains: O- ring.

Part No.	Description	Image	Catalogue No.
ORJ-17	100 off O-ring, Gland to Conduit, NW17/18		086/046170
ORJ-23	50 off O-ring, Gland to Conduit, NW23		
ORJ-29	30 off O-ring, Gland to Conduit, NW29		
ORJ-36	20 off O-ring, Gland to Conduit, NW36		
ORJ-48	10 off O-ring, Gland to Conduit, NW48		
ORJ-70	5 off O-ring, Gland to Conduit, NW70		
ORJ-95	5 off O-ring, Gland to Conduit, NW95		

User to specify PADS number - manufacturer's part number - nominal size when ordering.

e.g. 100 off Metric O-rings – 086/046170-ORJ-17-NW17/18

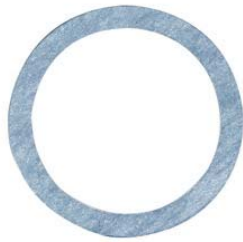
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Fibre Sealing Washers – Die-cut sealing washers constructed from de-formable asbestos free material. To be placed at the interface between equipment and gland to achieve a degree of protection up to IP68. To be placed on conduit gland/connector thread.

Pack contains: Fibre washer.


Part No.	Description	Image	Catalogue No.
PLJ-M20	100 off Sealing washer, 1.5mm thick, to suit M20x1.5mm Male Metric Thread.		086/046171
PLJ-M25	50 off Sealing washer, 1.5mm thick, to suit M25x1.5mm Male Metric Thread.		
PLJ-M32	30 off Sealing washer, 1.5mm thick, to suit M32x1.5mm Male Metric Thread.		
PLJ-M40	20 off Sealing washer, 1.5mm thick, to suit M40x1.5mm Male Metric Thread.		
PLJ-M50	10 off Sealing washer, 1.5mm thick, to suit M50x1.5mm Male Metric Thread.		
PLJ-M63	10 off Sealing washer, 1.5mm thick, to suit M63x1.5mm Male Metric Thread.		

User to specify PADS number - manufacturer's part number.

e.g. 50 off Sealing washers – 086/046171-PLJ-M25

Conduit Cutting Tool – Hand shear tool suitable for precise 90° cut of corrugated composite conduits

Locate blade into corrugation and squeeze/twist until conduit is 50% cut. Cut remaining 50% without twisting to achieve a square cut.

Part No.	Description	Image	Catalogue No.
CC02	1 off Conduit cutting tool (shear). Cutting range 0-67mm		086/046172

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
PA Compliance NR-L2-SIGELP-27422	Compliance Matrix to NR/L2/SIGELP/27422	v3	23/06/2015	1
PA Compliance NR-L2-SIGELP-27421	Compliance Matrix to NR/L2/SIGELP/27421	v3	23/06/2015	1
06433 – Covering Letter	Acceptance Requirements for Railway Infrastructure Products & Systems	v2	13/07/2015	1
Nylofix CE	Interflex Declaration of Conformity	2007	2007	1
INTERFLEX SGS ES12_12572 (EN)	SGS Interflex S.A. ISO 9001:2008	05/12/2012	05/12/2012	1
Ilecsys Rail Community Certificate	Ilecsys Rail Community Certificate, Link-up Registration	001-01/2011	14/12/2015	1
Cert 19056	NQA Certificate of Registration ISO 9001:2008	11/08/2014	11/08/2014	1
SWL(A).00	Datasheet - SWL Support with Lid	00	07/2009	1
STF(A).01	Datasheet - STF Supports	01	09/2010	1
Solvent guide 2.16.2 FIG 4	Solvent and Chemical Resistance Information	-	-	1
SDN(A).00	Datasheet - SDN Supports	00	09/2006	1
REA(A).02	Datasheet – Polyamide M and PG Reducers	02	06/2013	1
PLJ(A).01	Datasheet – PLJ Sealing Washers	01	06/2008	1
ORJ(A).00	Datasheet – ORJ O-Rings	00	06/2006	1
NYLOFIX RoHs2	Declaration of Conformity	-	01/13/2013	1
Nylacast_pa6technical_data	Materials Brochure Nylacast PA6 C	-	13/07/2015	
NEC(A).03	Datasheet – Elbow Connector	03	07/2010	1
MIR(A).04	Datasheet – Straight Connector	04	07/2010	1
Interflex Products Range	Interflex Parts for Product Approval	1.1	13/07/2015	1
Interflex Email Statement	Formal E-mail from linterflex	N/A	23/07/2015	1
FPR(A).02	Datasheet – FPR Plastic Female Thread Connector	02	03/2013	1
Email 2	Parts and Specification	N/A	12/06/2015	1
Email 1	Conduit Systems	N/A	12/06/2015	1
Dielectric Strength tests on Interflex Conduits	DIELECTRIC STRENGTH TESTS AT 3.5kV & 5kV ON INTERFLEX 23mm SOLID CONDUIT & STRAIGHT FITTINGS (Tested 01/07/2015)	01	01/07/2015	1
DIELECTRIC STRENGTH TESTS ON 16mm CABLE THROUGH A CONDUIT	Dielectric strength test Conduit/Glands	N/A	02/07/2015	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
BASF PA6 Testing	Effects of Time and Temperature Conditions on the Tensile-Tensile Fatigue Behaviour of Short Fibre Reinforced Polyamides	N/A	2003	1
AGT(A).04	Datasheet – Polyamide corrugated conduit – Interflex AGT	04	06/2013	1

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
O M Manual ILS100314	Conduit and Cable Support Products	V1.2	15/06/2015	1
NYLOFIX Instructions (EN-DE-ES-FR)	Instructions for Assembly and Disassembly of Conduit	-	13/07/2015	1
Installation NYLOFIX System for Cable protection.	Installation Guide	-	13/07/2015	1
Flexicon CC02	Cutting and Assembly Guidance	-	09/07/2015	1

Certificate History

Issue	Date	Issue History
1	31/07/2015	First accepted for use

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Contact Details

Manufacturer

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Distributor

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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