Electricity Specification 400C13

Issue 4          October 2015

Multipair & Multicore Auxiliary Cables

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Approved for issue by the Technical Policy Panel

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### Issue and Amendment Summary

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MULTIPAIR & MULTICORE AUXILIARY CABLES

1. SCOPE

This Specification covers the technical requirements for multicore and multipair auxiliary cables for use on the Electricity North West Limited (hereinafter referred to as Electricity North West) Distribution System.

2. DEFINITIONS

Approval: Sanction by the Electricity North West Underground Circuits Manager that specified criteria have been satisfied.

Contract: The agreement between Electricity North West and the Contractor for the execution of the Works including therein all documents to which reference may properly be made in order to ascertain the rights and obligations of the parties under the said agreement.

Contractor: The person or person's firm or company, including personal representatives, successors and permitted assigns, whose Tender has been accepted by Electricity North West.

Specification: The Specifications and schedules (if any) agreed by the parties for the purpose of the Contract.

Sub-Contractor: Any person (other than the Contractor) named in the Contract for any part of the Works or any person to whom any part of the Contract has been sub-let with the consent in writing of the Electricity North West Underground Circuits Manager, and the legal representatives, successors and assigns of such person.

Supplier: Any person or person's firm or company who supplies goods to Electricity North West or to its Contractor.

Tender: An offer in writing to execute work or supply goods at a fixed price.

Tenderer: The person or person's firm or company, including personal representatives, successors and permitted assigns, invited by Electricity North West to submit a Tender.

3. GENERAL REQUIREMENTS FOR APPROVALS AND TESTING

3.1 Product not to be Changed

No change in the product, packaging or labelling shall be made after Approval has been granted without prior notice to the Electricity North West Underground Circuits Manager and receipt of a written agreement from the Electricity North West Underground Circuits Manager.
3.2 Electricity North West Technical Approval

The Tenderer shall submit, with this Tender, proposals for testing which will demonstrate, to the satisfaction of the Electricity North West Underground Circuits Manager, compliance with this Specification. Such tests shall be carried out without expense to Electricity North West.

Alternatively, the Tenderer may submit technical reports and other data that he considers will demonstrate, to the satisfaction of the Electricity North West Underground Circuits Manager, compliance with this Specification. Acceptance of this evidence shall be at the discretion of the Electricity North West Underground Circuits Manager but will not be unreasonably withheld.

Approval shall be ‘factory specific’ and is not transferable to another factory without the written Approval of the Electricity North West Underground Circuits Manager.

The Supplier and product shall comply with all the relevant requirements of Electricity North West documents EPD311 and CP311.

3.3 Quality Assurance

The Tenderer shall confirm whether or not Approval is held in accordance with a quality assurance scheme accredited under BS EN ISO 9000. If not, he shall submit a statement of the quality assurance procedures employed to control the quality of the product, including the performance of Suppliers and Sub-Contractors.

The right is reserved for the Electricity North West Underground Circuits Manager to require, from time to time, the repeat of such tests as he may deem to be reasonably necessary to demonstrate continued compliance with the Specification.

The Tenderer shall submit, with his Tender, a list of tests and inspections which are carried out on the product prior to despatch which shall demonstrate, to the satisfaction of the Electricity North West Underground Circuits Manager, fitness for installation and service.

The Tenderer shall provide free of charge to Electricity North West such samples as may, in the opinion of the Electricity North West Underground Circuits Manager, be reasonably required for inspection and/or retention as quality control samples. The Electricity North West Underground Circuits Manager will confirm the requirements for samples at the time of tendering.

The right is reserved for the Electricity North West Underground Circuits Manager to make, from time to time, such inspections of the Tenderer's facilities as he may deem to be reasonably necessary to ensure compliance with this Specification and any Contract of which it forms a part.

The Tenderer shall submit, with his Tender, such details of product packaging disposal, as will enable Electricity North West to comply with the requirements of BS EN ISO 14001: 2004 – Environmental Management Systems.
3.4 **Formulation**

The Tenderer shall submit, with his Tender, such details of the formulation and use of the product and associated substances as will enable Electricity North West to comply with the obligations of the Health and Safety at Work Act 1974 and the Control of Substances Hazardous to Health Regulations 2002, in the use, storage and disposal of the product. The Tenderer may stipulate, prior to submission of such information, that he requires it to remain confidential and the Electricity North West Underground Circuits Manager will, if requested, confirm his agreement to this prior to receipt of the information.

3.5 **Identification Markings**

The Tenderer shall submit, with his Tender, details of markings which it is proposed to apply to the product or packaging to identify manufacturing batches or items. The forms and content of such markings shall be subject to the Approval of the Electricity North West Underground Circuits Manager, and shall in all cases include the Electricity North West Approved Description and Commodity Code Number.

The Tenderer shall submit, with his Tender, such details of marking gross weight on components, assemblies and packages, as will enable Electricity North West to comply with the Manual Handling Operations Regulation 1992, for components, assemblies and packages supplied with a gross weight over 1kg. The forms and content of such markings shall be subject to the Approval of the Electricity North West Underground Circuits Manager.

3.6 **Minimum Life Expectancy**

The minimum life expectancy of all products covered by this Specification is 60 years.

3.7 **Product Conformity**

Preference will be given to those Suppliers who can provide suitable product conformity certification to a recognised or specified standard, or an equivalent certification.

3.8 **Confirmation of Conformance**

The Tenderer shall complete the conformance declaration sheets in Appendix C. Failure to complete these declaration sheets may result in an unacceptable bid.
4. **CONDITIONS OF INSTALLATION**

Cables specified in this Specification will be pulled or laid into open trenches, pulled into ducts or installed in air. Cables may also be installed directly by trenchless installation techniques.

During storage and after installation cables can be expected to be subjected to the full range of climatic conditions encountered in the UK.

Cables may be surrounded by ground water for most of their operating life. Where cables are installed in ducts, flooding of ducts can occur resulting in permanently wet sections along the cable route.

Cables installed above ground will be supported by means of cleats either vertically or horizontally and these cables may be exposed to direct sunlight for significant periods.

Cables may be installed on wood poles in contact with the pole and, therefore, in contact with a pole preservation medium such as creosote.

Accessories may be cold applied or require application of heat.

5. **CONDITIONS OF OPERATION FOR POWER CABLES**

The following are the general conditions under which power cables purchased in accordance with this Specification are required to operate:

- Nominal system voltage (V): 11 000/6 360; 33 000/19 000 and 132 000/76 000.
- The working voltage of any part of the system does not normally exceed the normal system voltage by more than 6%.
- Nominal system frequency: 50Hz.
- The system operates with the neutral point earthed either directly or through a resistance or reactance at one or more points.

6. **CABLE LONGEVITY**

Cables offered shall be designed and manufactured to operate satisfactorily under the installation and operating conditions detailed in Sections 4 and 5. Cables with extruded insulation shall have passed the CIGRE 2 year long term ageing test specified as per proposed amendment 3, clause 5.4.15 to CENELEC HD 605. Preference will be for manufacturers that carry out the CIGRE 2 year test on a continual 1 year cycle.
7. **MANUFACTURING**

At the time of Tender, the Tenderer shall provide details of manufacturing location(s) for each cable offered. For cables with extruded insulation, the Tenderer shall also provide details of extrusion and curing technology for each cable offered. The cross linking process will be completely “Dry Cured” and no water will be used during this process.

Any Approval granted will be site specific and will not be transferable to any other site without the prior written agreement of the Electricity North West Underground Circuits Manager.

8. **TECHNICAL SUPPORT**

During the Contract period questions will arise regarding unusual or non-standard applications where advice will be required on matters such as cable ratings etc. The successful Tenderer(s) will be expected to support Electricity North West with technical advice on these matters.

9. **TESTING AND APPROVAL**

9.1 **Type Test Approval**

All cables offered shall be fully Type Tested and Qualified according to the requirements of the Technical Specification and Standards detailed for each cable type. The Tenderer shall provide Type Test certificates and Type Test reports, including details of independent witnesses, at the time of Tender.

Where a Tenderer wishes to offer a cable which has been Type Tested to an alternative Standard(s), full details of the alternative Standard(s) and how it differs from the Specified Standard(s) shall be provided at the time of Tender along with Type Test certificates.

If, during the period of the Contract, the Contractor wishes to make any changes to the Approved product, packaging or labelling, proposals for such changes shall be notified in writing to the Electricity North West Underground Circuits Manager. No such changes shall be implemented without the prior written Approval of the Electricity North West Underground Circuits Manager. If the Electricity North West Underground Circuits Manager deems that the changes require Type Approval testing to be repeated, in full or in part, the cost of such testing shall be borne by the Contractor.

9.2 **Requirement for Routine Tests at the Supplier's Premises and Sampling**

These tests may be required to be carried out on every individual unit or component, as specified, or at some regular frequency to be determined by the Electricity North West Underground Circuits Manager.

The results of these tests may be required to be supplied to Electricity North West with each unit purchased or retained for inspection, at a period to be determined by the Electricity North West Underground Circuits Manager.
9.3 Routine and Sample Testing

The Contractor shall carry out all routine and sample tests specified for each cable. Tenderers shall state at the time of Tender their proposals for sample test frequencies where such frequencies are not detailed specifically by this Specification or the relevant referenced Standards or Specifications. The Electricity North West Underground Circuits Manager reserves the right to be present and witness routine and sample tests. Where the Electricity North West Underground Circuits Manager wishes to witness any such tests, the date and time of testing shall be mutually agreed.

9.4 Samples

During the Tender period the Tenderer shall submit samples for Approval as required by the Electricity North West Underground Circuits Manager. Such samples shall remain the property of Electricity North West.

10. TECHNICAL PARTICULARS

10.1 Scope

This Specification covers the supply of the following types of auxiliary cables:

10.1.1 Multicore Cables

4, 7, 12 and 19 core PVC insulated, steel wire armoured multicore cable with PVC oversheath with a conductor size of 7/0.67mm diameter.

10.1.2 1/0.8mm Multipair Cables

7, 19, 37 and 61 pair polythene insulated multipair cable with PVC oversheath, with core diameter of 0.8mm.

Both filled and unfilled types are required (refer to Sections 12 to 15).

10.1.3 1/0.9mm Multipair Cables

7, 19, 37 and 61 pair unfilled polythene insulated multipair cable with PVC oversheath, with core diameter of 0.9mm.

10.2 Technical Requirements

Multicore cables referenced at 10.1.1 shall comply with BS7870 Part 8 Section 8.1.

Multipair cables referenced at 10.1.2 shall comply with BS7870 Part 8 Section 8.2.

Multipair cables referenced at 10.1.3 shall comply with ENA TS 09-6.

10.3 Cable Technical Characteristics

Cable technical characteristics shall be in accordance with ENA TS 09-6.
10.4 **Cable Identification**

Each delivery length of cable shall be allocated a unique reference number. This unique reference number shall be embossed on the cable near to the metre mark. This unique reference number will be used to identify all materials used within the manufacturing process. This number shall appear on the factory test sheet covering the cable length and shall be clearly marked on the drum on which the length is delivered and shall be referred to on all invoices and advice notes.

Additional costs should be included if applicable for the option of providing a unique identifier / batch number or having Electricity North West printed on to the conductor to enable positive identification of ownership in event of theft.

10.4.1 **Oversheath Marking**

In addition to the requirements detailed in the relevant specification for each cable supplied, the unique reference number shall be embossed in the cable oversheath.

10.5 **Logistical Requirements**

Each cable supplied shall meet the requirements of Appendix B.

11. **SCHEDULE ONE – MULTICORE: 4, 7, 12 & 19 CORE PVC INSULATED**

11.1 **Specification**

The cable described in Section 10.1.1 shall have seven strand 0.67mm diameter, circular copper conductors complying with BS EN 60228 (class 2); PVC insulation with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Cable to be in accordance with BS 7870 Part 8 Section 8.1.

This multipair cable shall be provided on drums coloured yellow.

12. **SCHEDULE TWO – MULTIPAIR: 7, 19, 37 & 61 PAIR POLYETHENE INSULATED WITH 1/0.8mm DIAMETER CONDUCTOR (INDUCED VOLTAGES NOT EXCEEDING 5kV)**

*(Shall be used only for new work.)*

12.1 **Specification**

The cable described in Section 10.1.2 shall have one 0.8mm diameter circular solid copper conductor complying with BS EN 60228 in so far as applicable, polythene insulation, unfilled with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Cable to be in accordance with BS 7870 Part 8 Section 8.2.

The cable sheath shall, in addition to the requirements of BS 7870 Part 8, be embossed with the conductor diameter and number of pairs, eg 0.8mm/37pr and indicate the cable is unfilled.
The cores shall be clearly identified by colours in accordance with the sequence detailed in ENA TS 09-6.

This multipair cable shall be provided on drums coloured red.

13. **SCHEDULE THREE – MULTIPAIR: 7, 19, 37 & 61 PAIR POLYTHENE INSULATED WITH 1/0.8mm DIAMETER CONDUCTOR (INDUCED VOLTAGES NOT EXCEEDING 5kV)**

(Shall be used only for new work.)

13.1 **Specification**

The cable described in Section 10.1.2 shall have one 0.8mm diameter circular solid copper conductor complying with BS EN 60228 in so far as applicable, polythene insulation, filled with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Filled cables shall be filled with a suitable medium which shall have no detrimental effect on the core insulation and insulation colours.

Cable to be in accordance with BS 7870 Part 8 Section 8.2.

The cable sheath shall, in addition to the requirements of BS 7870 Part 8, be embossed with the conductor diameter and number of pairs, eg 0.8mm/37pr and shall indicate the cable is filled.

The cores shall be clearly identified by colours in accordance with the sequence detailed in ENA TS 09-6.

This multipair cable shall be provided on drums coloured red.

14. **SCHEDULE FOUR – MULTIPAIR: 7, 19, 37 & 61 PAIR POLYTHENE INSULATED WITH 1/0.8mm DIAMETER CONDUCTOR (INDUCED VOLTAGES MAY EXCEED 5kV BUT NOT EXCEED 15kV)**

(Shall be used only for new work.)

14.1 **Specification**

The cable described in Section 10.1.2 shall have one 0.8mm diameter circular solid copper conductor complying with BS EN 60228 in so far as applicable, polythene insulation, unfilled with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Cable to be in accordance with BS 7870 Part 8 Section 8.2.

The cable sheath shall, in addition to the requirements of BS 7870 Part 8, be embossed with the conductor diameter and number of pairs, eg 0.8mm/37pr and indicate the cable is unfilled.

The cores shall be clearly identified by colours in accordance with the sequence detailed in ENA TS 09-6.

This multipair cable shall be provided on drums coloured red.
15. **SCHEDULE FIVE – MULTIPAIR: 7, 19, 37 & 61 PAIR POLYTHENE INSULATED WITH 1/0.8mm DIAMETER CONDUCTOR (INDUCED VOLTAGES MAY EXCEED 5kV BUT NOT EXCEED 15kV)**

(Shall be used only for new work.)

15.1 **Specification**

The cable described in Section 10.1.2 shall have one 0.8mm diameter circular solid copper conductor complying with BS EN 60228 in so far as applicable, polythene insulation, filled with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Filled cables shall be filled with a suitable medium which shall have no detrimental effect on the core insulation and insulation colours.

Cable to be in accordance with BS 7870 Part 8 Section 8.2.

The cable sheath shall, in addition to the requirements of BS 7870 Part 8, be embossed with the conductor diameter and number of pairs, eg 0.8mm/37pr and shall indicate the cable is filled.

The cores shall be clearly identified by colours in accordance with the sequence detailed in ENA TS 09-6.

This multipair cable shall be provided on drums coloured red.

16. **SCHEDULE SIX – MULTIPAIR: 7, 19, 37 & 61 PAIR POLYTHENE INSULATED WITH 1/0.9MM DIAMETER CONDUCTOR (INDUCED VOLTAGES MAY EXCEED 5kV BUT NOT EXCEED 15kV)**

(Shall be used only for repairs to the existing network.)

16.1 **Specification**

The cable described in Section 10.1.3 shall have one 0.9mm diameter circular solid copper conductor complying with BS EN 60228 in so far as applicable, polythene insulation, unfilled with one layer of galvanized steel wire armour, protected with a coating of waterproof compound, and black PVC oversheath.

Cable to be in accordance ENA TS 09-6.

The cable sheath shall, in addition to the requirements of ENA TS 09-6, be embossed with the conductor diameter and number of pairs, eg 0.9mm/19pr.

This multipair cable shall be provided on drums coloured red.
17. DOCUMENTS REFERENCED


Control of Substances Hazardous to Health Regulations 2002.


BS EN ISO 9000: Quality management systems.


BS EN 60228: 2005: Conductors of insulated cables.

BS7870 Part 8 Section 8.1: LV and MV polymeric insulated cables for use by distribution and generation utilities.

BS7870 Part 8 Section 8.2: LV and MV polymeric insulated cables for use by distribution and generation utilities.

ENA TS 09-06: Auxiliary Multicore & Multipair Cables.

CENELEC HD 605 Electrical Cables – Additional test Methods.

EPD311: Approval of Equipment.

CP311: Equipment Approval Process.

ES400C7: Returnable Cable Drums for Mains Cables Conforming to ECP 410 Chapter 1.

18. KEYWORDS

Cable; multicore; multipair
### APPENDIX A

### SCHEDULE OF CABLES

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APPENDIX B
LOGISTICAL REQUIREMENTS

B1. CABLE DRUMS AND LABELLING

Cable drums shall meet the requirements of ES400C7.

All cable drums shall be marked in accordance with the relevant cable specification or standard. The drum label shall also contain:

- Electricity North West commodity code
- Name of manufacturer
- Supplied length
- Rated voltage
- Cable type
- Number of cores/pairs
- Size of conductor
- Gross and nett weights
- Direction of rolling drum
- The metre marking start and end values
- The unique reference number

B2. GENERAL LOGISTICAL REQUIREMENTS

Cable drums may be stored for long periods outdoors. All drum labels shall remain legible and durable under these conditions.

All cable drums shall be returnable and the Tenderer shall arrange to collect empty drums from the company's normal delivery locations. Tenderers shall state at the time of Tender their proposed cable drum sizes and weights for each cable type offered.

The ends of all cables shall be effectively sealed against the ingress of moisture by a method appropriate to the cable type. Tenderers shall detail at the time of Tender their proposed sealing arrangement for each cable type offered.

The cable end projecting from the drum shall be protected from damage during transit, storage and handling on site.
The cable on the drum shall not be susceptible to damage during transit, storage and handling on site.

Tenderers shall state at the time of Tender their proposed method of protection for each cable.
APPENDIX C

CONFORMANCE DECLARATION

SECTION-BY-SECTION CONFORMANCE WITH SPECIFICATION

The Tenderer shall declare conformance or otherwise for each product/service or range of products/services, section-by-section, using the following Conformance Declaration Codes.

Conformance Declaration Codes:

N/A = Section is not applicable/appropriate to the product/service.
C1 = The product/service conforms fully with the requirements of this section.
C2 = The product/service conforms partially with the requirements of this section.
C3 = The product/service does not conform to the requirements of this section.
C4 = The product/service does not currently conform to the requirements of this section, but the manufacturer proposes to modify and test the product in order to conform.

Manufacturer:

Product/Service description:

Product/Service reference:

Assessor details

Name:

Company:

Signature:

Date:
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Additional Notes: