appendix a

Conductors for new or refurbished line construction:  
specific requirements

A1 plain Stranded Aluminium Alloy conductors

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description (for purchasing and product labelling)** | **Conductor Specification\*** | **Conductor Greasing ENA ER L38** | **Estimated Usage (metres)** | **CC Number** | **Price per 1000 metres** |
| Conductor, AAAC, 300mm2  (Upas) (37/3.53) | BS EN 50182 | Cat 3 |  | 013920 |  |
| Conductor, AAAC, 500mm2  (Rubus) (61/3.50) | BS EN 50182 | Cat 3 |  | 013230 |  |
| \* Individual wires shall comply with the appropriate specification as listed under Technical Particulars. | | | | | |

A2 Stranded Aluminium (Steel reinforced)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description (for purchasing and product labelling)** | **Conductor Specification\*** | **Conductor Greasing ENA ER L38** | **Estimated Usage (metres)** | **CC Number** | **Price per 1000 metres** |
| Conductor, ACSR, 70mm2 (Horse) (12/2.79+7/2.79) \*\* | BS EN 50182 | Cat 3 |  | 013854 |  |
| Conductor, ACSR, 175mm2  (Lynx) (30/2.79+7/2.79) | BS EN 50182 | Cat 3 |  | 013927 |  |
| \* Individual wires shall comply with the appropriate specification as listed under Technical Particulars.  \*\* 70mm2 (Horse) shall be used for earth wire only (ie it shall not be used for phase conductor). | | | | | |

A3 Stranded Aluminium Alloy (Steel reinforced)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description (for purchasing and product labelling)** | **Conductor Specification\*** | **Conductor Greasing ENA ER L38** | **Estimated Usage (metres)** | **CC Number** | **Price per 1000 metres** |
| Conductor, AACSR, 175mm2  (Keziah) (30/2.79+7/2.79) | BS EN 50182 | Cat 3 |  | 013936 |  |
| \* Individual wires shall comply with the appropriate specification as listed under Technical Particulars. | | | | | |

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Appendix B

Conductors for repair only:  
specific requirements

B1 plain Stranded Hard Drawn Copper conductors

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description (for purchasing and product labelling)** | **Conductor Specification** | **Conductor Greasing** | **Estimated Usage (metres)** | **CC Number** | **Price per 1000 metres** |
| Conductor, HDCu, 70mm2 (7/3.55) | BS 7884 | N/A |  | 013196 |  |
| Conductor, HDCu, 100mm2 (7/4.30) | BS 7884 | N/A |  | 013199 |  |
| Conductor, HDCu, 125mm2 (19/2.90) | BS 7884 | N/A |  | 013210 |  |
| Conductor, HDCu, 150mm2 (19/3.20) | BS 7884 | N/A |  | 013220 |  |

B2 Stranded Aluminium (Steel reinforced)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description (for purchasing and product labelling)** | **Conductor Specification\*** | **Conductor Greasing ENA ER L38** | **Estimated Usage (metres)** | **CC Number** | **Price per 1000 metres** |
| Conductor, ACSR, 75mm2  (Racoon) (6/4.10+1/4.10) | BS EN 50182 | Cat 3 |  | 013678 |  |
| Conductor, ACSR, 100mm2  (Dog) (6/4.72+7/1.57) | BS EN 50182 | Cat 3 |  | 013862 |  |
| Conductor, ACSR, 400mm2  (Zebra) (54/3.18+7/3.18) | BS EN 50182 | Cat 3 |  | 013870 |  |
| \* Individual wires shall comply with the appropriate specification as listed under Technical Particulars. | | | | | |

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Appendix c

16/01/14

product confirmation of compliance schedules

TENDERER……………….. TABLE 1

CONDUCTOR:

ELECTRICAL AND MECHANICAL TESTS (SPECIFY BS):

SAMPLE NO AND LOCATION:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Aluminium / Copper | | | | | | Steel Wire | | | | |
|  | Stranded as Rec. | Dia Cleaned | Measured Resistance at 20 °C | Breaking Load | Wrapping Test | Torsion Test (Twists) | Strand Dia. | Tensile Strength | Stress at 1% Elongation | Elongation 200 mm Gauge Length % | Wrapping Test |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30 |  |  |  |  |  |  |  |  |  |  |  |

BS CRITERIA: BS CRITERIA   
Minimum specified diameter : Minimum specified diameter:   
Maximum specified resistance: Minimum tensile strength:   
 Outer strands (1-18) Minimum stress at 1% elongation:   
 Inner strands (19-30) Minimum elongation:   
Minimum specified breaking loads :

TENDERER……………….. TABLE 2

CONDUCTOR DETAILS (To be completed by Tenderer for each conductor/size tendered for)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item Number |  |  |  |  |  |  |  |  |
| Conductor Size |  |  |  |  |  |  |  |  |
| Conductor Stranding |  |  |  |  |  |  |  |  |
| Conductor Material |  |  |  |  |  |  |  |  |
| U.T.S. | (N) |  |  |  |  |  |  |  |
| Diameter | (mm) |  |  |  |  |  |  |  |
| Bare Weight | (Kg/m) |  |  |  |  |  |  |  |
| Greased Weight | (Kg/m) |  |  |  |  |  |  |  |
| Cross Sectional Area | (Sq.mm) |  |  |  |  |  |  |  |
| Modulus of Elasticity | (N/Sq.mm) |  |  |  |  |  |  |  |
| Coefficient of Linear Exp. | (deg C) |  |  |  |  |  |  |  |