appendix a

Conductors for new or refurbished line construction:
specific requirements

A1 plain Stranded Aluminium Alloy conductors

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approved Description(for purchasing and product labelling)** | **ConductorSpecification\*** | **ConductorGreasingENAER L38** | **EstimatedUsage(metres)** | **CC Number** | **Price per1000metres** |
| 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)** | **ConductorSpecification\*** | **ConductorGreasingENAER L38** | **EstimatedUsage(metres)** | **CC Number** | **Price per1000metres** |
| 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)** | **ConductorSpecification\*** | **ConductorGreasingENAER L38** | **EstimatedUsage(metres)** | **CC Number** | **Price per1000metres** |
| 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)** | **ConductorSpecification** | **ConductorGreasing** | **EstimatedUsage(metres)** | **CC Number** | **Price per1000metres** |
| 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)** | **ConductorSpecification\*** | **ConductorGreasingENAER L38** | **EstimatedUsage(metres)** | **CC Number** | **Price per1000metres** |
| 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 |
|  | Strandedas Rec. | DiaCleaned | MeasuredResistance at 20 °C | BreakingLoad | WrappingTest | TorsionTest(Twists) | StrandDia. | TensileStrength | Stressat 1%Elongation | Elongation200 mmGauge Length % | WrappingTest |
| 123456789101112131415161718192021222324252627282930 |  |  |  |  |  |  |  |  |  |  |  |

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) |  |  |  |  |  |  |  |