

| <b>ENVIRONMENTAL CONDITION</b>                             | Ambient Temperature  | Max.  | Min.   |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|--|--|---|--|---|--------------------------------------|--|----------------------------|---|------|----------------------------|---|------|-----------------------------|---|------|--|---|------|--|---|-------|--|---|-------|-----------------------------|----|-------|-----------------------------|----|-------|
|  | Humidity   |   |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <b>RELEVANT STANDARD</b>                                   | IPS-M-TP-750   | Cathodic Protection Cables                          |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <b>APPLICATION</b>   | In Cable Tray  | <input type="checkbox"/>                            |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | In Conduit   | <input type="checkbox"/>                            |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | Concrete Trench  | <input type="checkbox"/>                            |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | Soil Application   | <input type="checkbox"/>                            |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <b>CONDUCTOR</b>   | Material   | <input checked="" type="checkbox"/> Purity copper   |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | Shape  | <input checked="" type="checkbox"/> Stranded        |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | Characteristics  | <input checked="" type="checkbox"/> Soft & Annealed |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <b>STRANDS</b>   | Circular   | <input type="checkbox"/>                            |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <b>SIZE &amp; STRANDS &amp; MAXIMUM RESISTANCE AT 20°C</b> | <table border="1"> <thead> <tr> <th>Nominal Cross-Sectional Area (mm<sup>2</sup>)</th> <th>Minimum Number Of Wires In Conductor</th> <th>Maximum Resistance Of Conductor At 20°C ohm/km</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 4</td> <td>7</td> <td>4.52</td> </tr> <tr> <td><input type="checkbox"/> 6</td> <td>7</td> <td>3.02</td> </tr> <tr> <td><input type="checkbox"/> 10</td> <td>7</td> <td>1.79</td> </tr> <tr> <td><input checked="" type="checkbox"/> 16</td> <td>7</td> <td>1.13</td> </tr> <tr> <td><input checked="" type="checkbox"/> 25</td> <td>7</td> <td>0.712</td> </tr> <tr> <td><input checked="" type="checkbox"/> 35</td> <td>7</td> <td>0.514</td> </tr> <tr> <td><input type="checkbox"/> 50</td> <td>19</td> <td>0.379</td> </tr> <tr> <td><input type="checkbox"/> 70</td> <td>19</td> <td>0.262</td> </tr> </tbody> </table> |   |  | Nominal Cross-Sectional Area (mm <sup>2</sup> ) | Minimum Number Of Wires In Conductor | Maximum Resistance Of Conductor At 20°C ohm/km | <input type="checkbox"/> 4 | 7 | 4.52 | <input type="checkbox"/> 6 | 7 | 3.02 | <input type="checkbox"/> 10 | 7 | 1.79 | <input checked="" type="checkbox"/> 16 | 7 | 1.13 | <input checked="" type="checkbox"/> 25 | 7 | 0.712 | <input checked="" type="checkbox"/> 35 | 7 | 0.514 | <input type="checkbox"/> 50 | 19 | 0.379 | <input type="checkbox"/> 70 | 19 | 0.262 |
|  | Nominal Cross-Sectional Area (mm <sup>2</sup> )  | Minimum Number Of Wires In Conductor                | Maximum Resistance Of Conductor At 20°C ohm/km |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input type="checkbox"/> 4   | 7   | 4.52   |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input type="checkbox"/> 6   | 7   | 3.02   |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input type="checkbox"/> 10  | 7   | 1.79   |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input checked="" type="checkbox"/> 16   | 7   | 1.13   |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input checked="" type="checkbox"/> 25   | 7   | 0.712  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input checked="" type="checkbox"/> 35   | 7   | 0.514  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
|  | <input type="checkbox"/> 50  | 19  | 0.379  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |
| <input type="checkbox"/> 70                                | 19   | 0.262   |  |   |                                      |  |                            |   |      |                            |   |      |                             |   |      |  |   |      |  |   |       |  |   |       |                             |    |       |                             |    |       |

|                              |  |                                     |
|------------------------------|--|-------------------------------------|
| <b>INSULATING</b>            | Cross – linked Polyethylene (XLPE)         | <input checked="" type="checkbox"/> |
|                              | Polyvinyl Chloride (PVC)                   | <input type="checkbox"/>            |
|                              | High Molecular Weight Polyethylene (HMWPE) | <input type="checkbox"/>            |
|                              | Polyvinyl de Fluoride (PVDF)               | <input type="checkbox"/>            |
| <b>Metallic Sheath</b>       | Pure Lead                                  | <input type="checkbox"/>            |
|                              | Alloy Lead                                 | <input type="checkbox"/>            |
|                              | reinforced lead                            | <input type="checkbox"/>            |
| <b>ARMOUIED</b>              | Aluminium Wire Anode (AWA)                 | <input checked="" type="checkbox"/> |
|                              | Steel Wire Anode (SWA)                     | <input type="checkbox"/>            |
| <b>SHEATH</b>                | Cross – linked Polyethylene (XLPE)         | <input type="checkbox"/>            |
|                              | Polyvinyl Chloride (PVC)                   | <input checked="" type="checkbox"/> |
|                              | High Molecular Weight Polyethylene (HMWPE) | <input type="checkbox"/>            |
|                              | Polyvinyl de Fluoride (PVDF)               | <input type="checkbox"/>            |
| <b>INSPECTION &amp; TEST</b> | Dimensions and Constructions               | <input checked="" type="checkbox"/> |
|                              | Dielectric strength of Insulation          | <input checked="" type="checkbox"/> |
|                              | Electrical resistance of conductor         | <input checked="" type="checkbox"/> |
|                              | Insulation resistance                      | <input checked="" type="checkbox"/> |
|                              | Voltage test                               | <input checked="" type="checkbox"/> |
| <b>PACKING</b>               | Wooden drum                                | <input type="checkbox"/>            |
|                              | Anti-damage wooden boarding                | <input type="checkbox"/>            |
|                              | Shrinkage of top & end of cable            | <input type="checkbox"/>            |