

## GTP / DATA SHEET FOR AASC 240 mm<sup>2</sup> CONDUCTOR

| SR No    | PARTICULARS                                                                     | UNIT                    | DATA                                |
|----------|---------------------------------------------------------------------------------|-------------------------|-------------------------------------|
| <b>A</b> | <b>AAAC CONDUCTOR</b>                                                           |                         |                                     |
| 1        | Specification according to which the conductor will be manufactured and tested. | -                       | <b>EN 50182</b>                     |
| 2        | Code Name                                                                       | -                       | <b>AASC 240 mm<sup>2</sup></b>      |
| 3        | Size / Construction                                                             |                         | <b>Al. Alloy 61/2.25 mm</b>         |
| 4        | Outer Diameter of Conductor                                                     | mm                      | 20.3                                |
| 5        | Total Sectional area of the conductor                                           | mm <sup>2</sup>         | 242.5                               |
| 6        | Minimum Rated Strength of Conductor                                             | kN                      | 71.55                               |
| 7        | Maximum DC resistance of conductor at 20 deg.C.                                 | Ohm/km                  | 0.1373                              |
| 8        | Standard Linear mass of conductor                                               | Kg/km                   | <b>670.3 (Nominal)</b>              |
| 9        | Lay ratio of conductor                                                          | -                       |                                     |
|          | (a) 1+6 Wire layer                                                              | -                       | Min.10      Max.16                  |
|          | (b) 12 Wire layer                                                               | -                       | Min.10      Max.16                  |
|          | (c) 18 Wire layer                                                               | -                       | Min.10      Max.16                  |
|          | (d) 24 Wire layer                                                               | -                       | Min.10      Max.14                  |
| 10       | Direction of lay for outside layer                                              | -                       | Right Hand                          |
| 11       | Greasing                                                                        | -                       | N/A                                 |
| 12       | <b>PACKING</b>                                                                  | -                       | <b>As per attached Drum Drawing</b> |
| <b>B</b> | <b>ALUMINIUM ALLOY STRANDS AFTER STRANDING</b>                                  |                         |                                     |
| 1        | Diameter                                                                        | -                       |                                     |
|          | (a) Nominal                                                                     | mm                      | 2.25                                |
|          | (b) Maximum                                                                     | mm                      | 2.28                                |
|          | (c) Minimum                                                                     | mm                      | 2.22                                |
| 2        | Minimum Ultimate Tensile Strength                                               | N/mm <sup>2</sup>       | 295.0                               |
| 3        | Maximum Resistivity per Km at 20°C                                              | Ohm-mm <sup>2</sup> /km | 32.53                               |
| 4        | Minimum elongation after fracture on 250mm G.L                                  | %                       | 3.5                                 |
| 5        | Wrap Test                                                                       | -                       | On 1XD                              |