

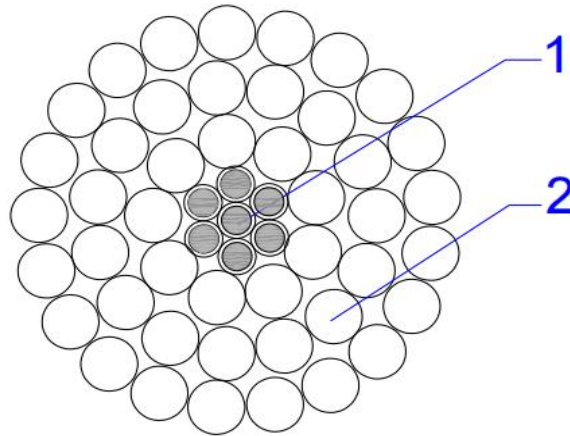
## TECHNICAL SPECIFICATION

### ITEM 1

#### DESCRIPTION:

Aluminum Conductor Aluminum Clad Steel Reinforced -ACSR/AS 1113 kcmil, Code name: BLUEJAY/AS , Standard: CFE E1000-18; ASTM B 549-10

#### STRUCTURE DRAWING:



ACSR/AS 1113 kcmil

1. Aluminum Clad Steel Wire
2. Aluminum wire(1350-H19)

**TECHNICAL PARTICULARS:**

| No. | Item                                                      | Unit                 | Technical Parameters                                    |
|-----|-----------------------------------------------------------|----------------------|---------------------------------------------------------|
| 1   | Manufacturer                                              |                      |                                                         |
| 2   | Product description                                       |                      | Aluminum Conductor Aluminum Clad Steel Reinforced Cable |
| 3   | Standard                                                  |                      | ASTM B 232                                              |
| 4   | Size                                                      | kcmil                | 1113                                                    |
| 5   | Code name                                                 |                      | BLUEJAY/AS                                              |
| 6   | Cross-section area(approx.)                               |                      |                                                         |
|     | Aluminum                                                  | mm <sup>2</sup>      | 564                                                     |
|     | Aluminum Clad Steel                                       | mm <sup>2</sup>      | 39                                                      |
|     | Total                                                     | mm <sup>2</sup>      | 603                                                     |
| 7   | No.&diameter of wire                                      |                      |                                                         |
|     | Aluminum                                                  | No./mm               | 45/4.00±0.04                                            |
|     | Aluminum Clad Steel                                       | No./mm               | 7/2.66±0.05                                             |
| 8   | Overall diameter(approx.)                                 | mm                   | 31.98±0.3                                               |
| 9   | Weight of non-greased conductor(approx.)                  | Kg/km                | 1822                                                    |
| 10  | Rated strength                                            | kN                   | 130                                                     |
| 11  | Max. DC resistance at 20°C of conductor                   | Ω/km                 | 0.050                                                   |
| 12  | Modulus Elasticity Final                                  | MPa                  | 68000                                                   |
| 13  | Coefficient of Linear Expansion, β,                       | 1/°C                 | 22.3 x 10 <sup>-6</sup>                                 |
| 14  | Properties of Aluminum Wire (Before Stranding)            |                      |                                                         |
|     | Diameter and tolerance                                    | mm                   | 4.00±0.04                                               |
|     | Min. tensile strength                                     | MPa                  | 165                                                     |
|     | Max. resistivity at 20°C                                  | Ω·mm <sup>2</sup> /m | 0.028265                                                |
| 15  | Properties of Aluminum Clad Steel wire (Before stranding) |                      |                                                         |
|     | Diameter and tolerance                                    | mm                   | 2.66±0.05                                               |
|     | Min. tensile strength                                     | MPa                  | 1344                                                    |
|     | Min. tension at 1% elongation                             | MPa                  | 1206                                                    |
|     | Min elongation at 250 mm                                  | %                    | 1.5                                                     |