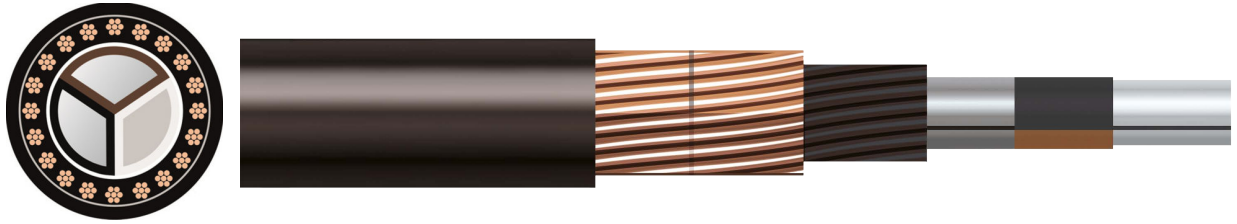


## ALUMINIUM WAVEFORM CABLE BS7870



The Aluminum Waveform cable is employed as a power supply conduit, commonly deployed in power station distribution, panel boards, and street lighting zones where mechanical fortification is necessary. It comprises 3 or 4 aluminum conductors arranged in a sector shape, accompanied by a copper conductor laid in a waveform configuration

|                               |   |
|-------------------------------|---|
| <b>CONDUCTOR</b>              | Aluminium   |
| <b>STRANDING</b>              | Class 1   |
| <b>INSULATION</b>             | XLPE  |
| <b>OUTERSHEATH</b>            | PVC   |
| <b>OUTERSHEATH COLOUR</b>     | Black   |
| <b>RATED VOLTAGE</b>          | 0.6/1kV   |
| <b>CORE IDENTIFICATION</b>    | Brown,Black,Grey  |
| <b>MINIMUM BENDING RADIUS</b> | 95mm <sup>2</sup> : 8 x overall diameter 185mm <sup>2</sup> : 9 x overall diameter 300mm <sup>2</sup> : 10 x overall diameter |
| <b>STANDARDS</b>              | BS7870-3.40   |

SPECIFICATION DATA

| BATT Part No | Cores | Nominal cross sectional area of conductor | Minimum average thickness of insulation | Minimum average thickness of outer sheath | Approx overall diameter | Weight |
|--------------|-------|---|---|---|-------------------------|--------|
| 56398        | 3     | 95  | 1.1                                     | 2.1                                       | 36                      | 1980   |
| 56399        | 3     | 185                                       | 1.6                                     | 2.5                                       | 46                      | 3520   |
| 56400        | 3     | 300                                       | 1.8                                     | 2.8                                       | 56                      | 4810   |

Concentric Neutral/Earth Conductor

| Nominal cross sectional area | Approx no of wires | Nominal Diameter of wires | Approx length of lay |
|------------------------------|--------------------|---------------------------|----------------------|
| 95                           | 22                 | 1.85                      | 250                  |
| 185                          | 41                 | 1.85                      | 300                  |
| 300                          | 41                 | 1.85                      | 440                  |

Electrical Characteristics

| Nominal cross sectional area | Nominal internal diameter ducts | Current Rating Direct in Ground | Current Rating In Ducts | Current Rating In Air |
|------------------------------|---------------------------------|---------------------------------|-------------------------|-----------------------|
| 95                           | 70                              | 244                             | 227                     | 232                   |
| 185                          | 90                              | 353                             | 328                     | 364                   |
| 300                          | 110                             | 461                             | 429                     | 508                   |

\*Buried direct in ground 0.45mtr deep, +15°C ambient, soil thermal resistivity of 1.2°C m/w.

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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