



# ANAND E BEAM CABLES INDIA LIMITED

## PRODUCT SPECIFICATIONS

**ITEM CODE: EBDC/4.0**

**ITEM:** Single core x 4.00 sqmm ATC Conductor, XLPO Insulated & Sheathed Solar Cable.

| S.N. | Description                                | Data                                                                                                                  |
|------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1    | <b>Type</b>                                | Annealed Tinned Flexible Copper Conductor, EBXL XLPO 120°C Insulated & Sheathed 1.5 kV DC Solar Cable                 |
| 2    | <b>Reference Standard</b>                  | EN50618                                                                                                               |
| 3    | <b>Application</b>                         | Indoor/Outdoor Use                                                                                                    |
| 4    | <b>Ratings</b>                             |                                                                                                                       |
| 4.1  | Voltage Rating                             | 1/1KV AC, 1.5 KV DC (1.8 KV DC MAX)                                                                                   |
| 4.2  | Max Operating Temperature rating           | 90°C (25 Years), 120°C for 20000 hrs (Min:-40°C)                                                                      |
| 5    | <b>Conductor</b>                           | Copper (Tinned coated)                                                                                                |
| 5.1  | Conductor Construction                     | Class 5 of IEC 60228 (Flexible)                                                                                       |
| 5.2  | Max. size of copper wire used              | (No. of wires=56)                                                                                                     |
| 5.3  | Nominal Diameter over conductor            | 2.30mm                                                                                                                |
| 6    | <b>Insulation</b>                          | EBXL – XLPO 120 °C                                                                                                    |
| 6.1  | Nominal Insulation Thickness ( mm)         | ≥0.7mm                                                                                                                |
| 6.2  | Colour                                     | White (Natural)/ Red/Black                                                                                            |
| 7    | <b>Outer Jacket (Sheath)</b>               | EBXL – XLPO 120 °C                                                                                                    |
| 7.1  | Nominal Sheath Thickness ( mm)             | ≥ 0.8mm                                                                                                               |
| 7.2  | Colour                                     | Black or Black with Red line                                                                                          |
| 7.3  | Overall diameter                           | 5.5 +/-0.5mm                                                                                                          |
| 8    | <b>Curing Type</b>                         | <b>E-Beam</b>                                                                                                         |
| 9    | <b>Electrical Properties</b>               |                                                                                                                       |
| 9.1  | Conductor Resistance                       | 5.08Ω/km accd to IEC 60228                                                                                            |
| 9.2  | Current Rating 2 Cable Adjacent on Surface | 44 Amps (Conditions apply)                                                                                            |
| 9.3  | Short-circuit-temperature                  | 250 C for 5 seconds                                                                                                   |
| 10   | <b>Fire properties</b>                     | Flame Retardant, Self-extinguishing as per IEC 60332-1 , IEC 60332-3-22 Cat A & IEC 60332-3-24 CatC                   |
|      | <b>Halogen acid Gas Evaluation</b>         | NIL (00) (EN 60754-1)                                                                                                 |
|      | <b>Smoke Density rating</b>                | < 30% (IEC 61034-2)                                                                                                   |
|      | <b>pH &amp; conductivity</b>               | As per EN 50525-1/IEC 60754-2                                                                                         |
| 11   | <b>Minimum Bending radius –mm</b>          | 6 x D                                                                                                                 |
| 12   | <b>Testing</b>                             | EN50618                                                                                                               |
| 13   | <b>Print</b>                               | ANAND 1C x 4 SQ.MM DC EBXL XLPO/XLPO 120°C "H1Z2Z2-K" SOLAR CABLE (As per EN 50618) mfg year + marking on every meter |
| 14   | <b>Packing</b>                             | 500 mtrs. ± 5% / 1000 mtrs. ± 5% / 1500 mtrs. ± 5% / 2000 mtrs. ± 5%                                                  |
| 15   | <b>Brand</b>                               | <b>ANAND</b>                                                                                                          |

Note: The specifications mentioned above are nominal and may vary due to manufacturing tolerances.