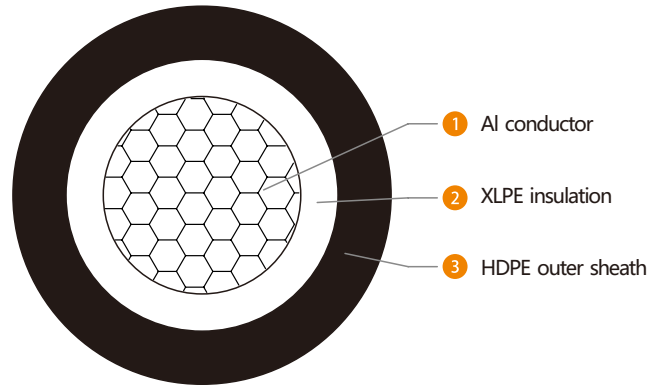


1500V DC Sub-array Cables AI/XLPE/HDPE



Properties:

| | |
|--|--|
| Rated Voltage | 1500V DC |
| Max. operating temperature of conductor | 90°C |
| Min. ambient temperature for operating | -40°C |
| Min. temperature for installing without preheating | +0°C |
| Max. short-circuit operation temperature of conductor (5s Max. duration) | 250°C |
| Min. bending radius | During installation: 9D After installation: 6D. D is outer diameter of cable |
| Standard | AS/NZS 5000.1 |

Application:

The low voltage DC power cable is applied to the connection of the collector box in the Photovoltaic system to the DC lightning protection distribution cabinet and the DC lightning protection distribution cabinet to the grid connected inverter. Low voltage DC power cable is applied to connect DC lightning protection switchboard and step-up transformer in photovoltaic system.

Structural Parameters:

| Nominal conductor area mm ² | Nominal thickness of insulation mm | Nominal thickness of outer sheath mm | Approx. overall diameter of cable mm | Approx. mass of cable kg/km | Max. DC resistance of conductor at 20°C Ω/km |
|---|---------------------------------------|---|---|--------------------------------|---|
| 10 | 0.7 | 1.4 | 10.3 | 66 | 3.08 |
| 16 | 0.7 | 1.4 | 11.4 | 89 | 1.91 |
| 25 | 0.9 | 1.4 | 12.8 | 127 | 1.20 |
| 35 | 0.9 | 1.4 | 13.8 | 160 | 0.868 |
| 50 | 1.0 | 1.4 | 15.1 | 204 | 0.641 |
| 70 | 1.1 | 1.4 | 17.0 | 277 | 0.443 |
| 95 | 1.1 | 1.5 | 18.8 | 364 | 0.320 |
| 120 | 1.2 | 1.5 | 20.5 | 448 | 0.253 |
| 150 | 1.4 | 1.6 | 22.6 | 551 | 0.206 |
| 185 | 1.6 | 1.6 | 24.6 | 678 | 0.164 |
| 240 | 1.7 | 1.7 | 27.4 | 870 | 0.125 |
| 300 | 1.8 | 1.8 | 30.0 | 1070 | 0.100 |
| 400 | 2.0 | 1.9 | 33.4 | 1357 | 0.0778 |
| 500 | 2.2 | 2.0 | 36.8 | 1716 | 0.0605 |
| 630 | 2.4 | 2.2 | 41.2 | 2193 | 0.0469 |
| 800 | 2.6 | 2.3 | 46.0 | 2763 | 0.0367 |