

PHOTOVOLTAIC CABLE (H1Z2Z2-K)

1.5 kV (DC) XLPE INSULATED AND XLPE SHEATHED PHOTOVOLTAIC (PV) CABLE TYPE H1Z2Z2-K, SINGLE CORE



| CABLE STRUCTURE | | TECHNICAL DATA | |
|-------------------|---|--|--|
| Conductor | : Tinned Annealed Copper (Flexible class 5) Size 1.5 up to 240 sq.mm | Classification | : temperature rang : -40°C to 90°C : Nominal rated a.c. voltage (U _o /U) : 1.0/1.0 kV : Nominal rated d.c. voltage : 1.5 kV : Max. Permitted operating d.c. voltage : 1.8 kV |
| Insulation | : Cross-linked Polyethylene (XLPE) | Reference standard | : EN 50618 : 2014 : TIS 62930-2564 |
| Sheath | : Cross-linked Polyethylene (XLPE) : Color Black or Blue or Red : Optional Other colors are available upon request | APPLICATION | |
| Features | : Ozone-resistant according to EN 50396 : Halogen-free according to EN 50525-1 : Weather/UV-resistance acc, to EN 50618 : Flame retardant acc, to EN 60332-1-2 : Low smoke acc. To EN 61034-2 : Acid and Alkaline resistant acc. To EN 60811-404 | The cable use for interconnection wiring of photovoltaic power system like solar panel arrays for utility scale solar plants or rooftops. Suitable for both internal and external use. They can also install to be fixed, free movable, in cable trays and in conduit. | |

| conductor | | | Thickness of insulation | thickness of sheath | Overall diameter | DC. Conductor resistance at 20° C | Insulation resistance at 90° C | Current rating in free air at 60° C | Cable weight | Standard length |
|----------------------|-------------------|--------------|-------------------------|---------------------|------------------|-----------------------------------|--------------------------------|-------------------------------------|-----------------|-----------------|
| Cross sectional area | Diameter of wires | Diameter | | | | | | | | |
| (mm ²) | Maximum. (mm) | Approx. (mm) | Nominal. (mm) | Nominal. (mm) | Approx. (mm) | Maximum. (Ω/km) | Minimum (MΩ.km) | (A) | Approx. (kg/km) | (m) |
| 1.5 | 0.26 | 1.6 | 0.7 | 0.8 | 4.8 | 13.7 | 0.86 | 30 | 50 | 200/D |
| 2.5 | 0.26 | 2.0 | 0.7 | 0.8 | 5.2 | 8.21 | 0.69 | 41 | 60 | 200/D |
| 4 | 0.31 | 2.4 | 0.7 | 0.8 | 5.6 | 5.09 | 0.58 | 55 | 80 | 200/D |
| 6 | 0.31 | 3.5 | 0.7 | 0.8 | 6.7 | 3.39 | 0.50 | 70 | 110 | 100/D |
| 10 | 0.41 | 4.8 | 0.7 | 0.8 | 8.0 | 1.95 | 0.42 | 78 | 150 | 100/D |
| 16 | 0.41 | 5.9 | 0.7 | 0.9 | 9.3 | 1.24 | 0.34 | 132 | 210 | 100/D |
| 25 | 0.41 | 7.4 | 0.9 | 1.0 | 11.5 | 0.795 | 0.34 | 176 | 310 | 100/D |
| 35 | 0.41 | 9.0 | 0.9 | 1.1 | 13.3 | 0.565 | 0.29 | 218 | 410 | 100/D |
| 50 | 0.41 | 10.4 | 1.0 | 1.2 | 15.1 | 0.393 | 0.27 | 276 | 550 | 100/D |
| 70 | 0.51 | 12.6 | 1.1 | 1.2 | 17.5 | 0.277 | 0.25 | 347 | 750 | 500/D |
| 95 | 0.51 | 13.9 | 1.1 | 1.3 | 19.0 | 0.210 | 0.22 | 416 | 1,020 | 500/D |
| 120 | 0.51 | 16.2 | 1.2 | 1.3 | 21.5 | 0.164 | 0.21 | 488 | 1,270 | 500/D |
| 150 | 0.51 | 18.1 | 1.4 | 1.4 | 24.0 | 0.132 | 0.21 | 566 | 1,560 | 500/D |
| 185 | 0.51 | 20.2 | 1.6 | 1.6 | 27.0 | 0.108 | 0.20 | 644 | 1,940 | 500/D |
| 240 | 0.51 | 23.2 | 1.7 | 1.7 | 30.4 | 0.0817 | 0.20 | 775 | 2,520 | 500/D |

D: Packing in drum