

PV CABLE

(Cable For Solar Power System)

Photovoltaic (PV) Cable

Our PV cable is single core power cable for direct current (DC) 1.5kV (Max. 1.8 kV) which designed to be permanent used in outdoor and indoor. These are suitable for heavy duty, presence of water, corrosive or polluting substances, impact and vibrations condition. The cable is in accordance to IEC 62930:2017.

Construction :

Rated Voltage 1.5kV

Conductor :

- Flexible tinned coated copper IEC 60228 class.5
- Stranded tinned coated copper IEC 60228 class.2

Insulation :

Cross-linked halogen free flame retardant compound

Sheath :

Cross-linked halogen free flame retardant compound



Application :

PV cable is for use in photovoltaic system for cabling solar modules, solar panels and arrays, and connection to power conditioning system.

| Condition | Continue at normal operation | Permissible period limited to 20000 H | Short circuit (5s max. duration) |
|---------------------------|------------------------------|---------------------------------------|----------------------------------|
| Max Conductor Temperature | 90°C | 120°C | 250°C |

Technical Data for Class 5 Conductor Cable

| Nominal cross sectional area of conductor | Maximum diameter of wires in conductor | Diameter of conductor | Thickness of insulation specified value | Thickness of sheath specified value | Mean overall diameter upper value class 5 | Weight of cable | Maximum conductor resistance at 20°C (Metal coated) | Minimum insulation resistance at 20 °C | Minimum insulation resistance at 90 °C | AC voltage test | Current carrying capacity at ambient temperature 30° C | | |
|---|--|-----------------------|---|-------------------------------------|---|-----------------|---|--|--|-----------------|--|---------------------------|--|
| | | | | | | | | | | | Single cable free in air | Single cable on a surface | Two loaded cables touching, on a surface |
| mm ² | mm | mm | mm | mm | mm | Kg/Km | Ohm/Km | M.Ω km | M.Ω km | kV/5 min | A | A | A |
| 1.5 fx | 0.26 | 1.8 | 0.7 | 0.8 | 5.4 | 40 | 13.7 | 1050 | 1.05 | 6.5 | 31 | 30 | 24 |
| 2.5 fx | 0.26 | 2.4 | 0.7 | 0.8 | 5.9 | 50 | 8.21 | 862 | 0.862 | 6.5 | 42 | 40 | 33 |
| 4 fx | 0.31 | 3.0 | 0.7 | 0.8 | 6.6 | 70 | 5.09 | 709 | 0.709 | 6.5 | 57 | 54 | 45 |
| 6 fx | 0.31 | 3.9 | 0.7 | 0.8 | 7.2 | 100 | 3.39 | 610 | 0.610 | 6.5 | 72 | 69 | 58 |
| 10 fx | 0.41 | 5.1 | 0.7 | 0.8 | 8.3 | 150 | 1.95 | 489 | 0.489 | 6.5 | 98 | 96 | 80 |
| 16 fx | 0.41 | 6.3 | 0.7 | 0.9 | 9.8 | 210 | 1.24 | 393 | 0.393 | 6.5 | 132 | 130 | 107 |
| 25 fx | 0.41 | 7.8 | 0.9 | 1.0 | 12.2 | 320 | 0.795 | 395 | 0.395 | 6.5 | 183 | 174 | 138 |
| 35 fx | 0.41 | 9.2 | 0.9 | 1.1 | 14.0 | 440 | 0.565 | 335 | 0.335 | 6.5 | 227 | 215 | 171 |
| 50 fx | 0.41 | 11 | 1.0 | 1.2 | 16.3 | 600 | 0.393 | 314 | 0.314 | 6.5 | 287 | 273 | 209 |
| 70 fx | 0.51 | 13.1 | 1.1 | 1.2 | 18.7 | 825 | 0.277 | 291 | 0.291 | 6.5 | 361 | 344 | 269 |
| 95 fx | 0.51 | 15.1 | 1.1 | 1.3 | 20.8 | 1065 | 0.210 | 258 | 0.258 | 6.5 | 433 | 411 | 328 |
| 120 fx | 0.51 | 17 | 1.2 | 1.3 | 23.0 | 1340 | 0.164 | 249 | 0.249 | 6.5 | 508 | 483 | 382 |
| 150 fx | 0.51 | 19 | 1.4 | 1.4 | 25.7 | 1695 | 0.132 | 260 | 0.260 | 6.5 | 590 | 560 | 441 |
| 185 fx | 0.51 | 21 | 1.6 | 1.6 | 28.7 | 2055 | 0.108 | 268 | 0.268 | 6.5 | 671 | 638 | 508 |
| 240 fx | 0.51 | 24 | 1.7 | 1.7 | 32.3 | 2665 | 0.0817 | 249 | 0.249 | 6.5 | 808 | 767 | 599 |
| 300 fx | 0.51 | 27 | 1.8 | 1.8 | 35.6 | 3300 | 0.0654 | 237 | 0.237 | 6.5 | 913 | 866 | 693 |
| 400 fx | 0.51 | 31 | 2.0 | 2.0 | 40.6 | 3450 | 0.0495 | 230 | 0.230 | 6.5 | 1098 | 1041 | 825 |

Environment Condition :

- Handling Installation min. -25°C
- Storage max. +45°C
- Weathering and UV resistance
- Ozone resistance
- Chemical resistance

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