# POWER CABLE FOR SOLAR

## 1 kV H1Z2Z2-K Solar PV Cable 1 x 1.5 to 1 x 400 mm²

**Applications:**

Solar photovoltaic power systems

Solar photovoltaic power systems

**Standard:**

EN 50618

**Construction:**

Conductor: Bare annealed copper conductor, Class 5 (flexible) as per IEC 60228

Insulation: Cross-linked polymer (XLPO) compound

Sheath: Cross-linked polymer (XLPO) compound

**Colour:**

Sheath: Black

**Marking:**

Sheath: Manufacturer's identification, product designation, conductor size, year of manufacture, sequential marking

**Operating Temperature:**

-40°C to +90°C

**Voltage:**

1 kV DC

**Max. Conductor Temperature:**

120°C

**Short Circuit Temperature:**

250°C

**Test Voltage:**

6.5 kV AC, 50 Hz, 5 min



## Solar roof accessories for photovoltaic systems

ATIX-SOLAR-S is the universal cross-shaped roof cross-cable duct for the storage of the cables in the area of voltage. Especially suitable for the storage of the cables in the area of voltage. Reliable in voltage. Effective in voltage resistance. Cement roof tiles. Light Weight. Fast Installation. Easy to Maintain.

**1. The function of ATIX-Solar.**

**2. Some recommended photovoltaic cables.**

| Model | Conductor Material | Insulation | Sheath | Standard |
|---|---|---|---|---|
| PV1-F | Tinned copper | XLPE | XLPO | EN 50618 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | EN 50618 |
| PV1-F | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |

**3. Technical data(Specification of photovoltaic cable)**

| Model | Conductor Material | Insulation | Sheath | Standard |
|---|---|---|---|---|
| PV1-F | Tinned copper | XLPE | XLPO | EN 50618 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | EN 50618 |
| PV1-F | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |

**4. Technical data(Specification of photovoltaic cable)**

| Model | Conductor Material | Insulation | Sheath | Standard |
|---|---|---|---|---|
| PV1-F | Tinned copper | XLPE | XLPO | EN 50618 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | EN 50618 |
| PV1-F | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |
| H1Z2Z2-K | Tinned copper | XLPE | XLPO | TÜV 2PfG 1169 |



## AC1kV PE Insulated Power Cable

Approvals: IS 7098

Applications: Power distribution in industrial plants, power stations, substations, and underground installations.

Standard: IS 7098 (Part 1)

Construction: Conductor: Aluminium or copper, stranded (Class 2) Insulation: Cross-linked polyethylene (XLPE) Core Identification: Red, yellow, blue (3 cores); black with numbers (multicore) Inner Sheath: Extruded PVC compound Armouring: Galvanized steel strip or wire Outer Sheath: Extruded PVC compound, black with red stripes

Colour: Outer sheath: black with red stripes

Marking: Manufacturer's name, cable size, voltage grade, year of manufacture, sequential marking

Operating Temperature: -15°C to +70°C

Voltage: 1.1 kV

Max. Conductor Temperature: 90°C

Short Circuit Temperature: 250°C

Test Voltage: 3.5 kV AC, 50 Hz, 5 min

**Aluminium 1.1 kV XLPE/PVC Power Cable**

| Size (mm²) | Conductor Diameter (mm) | Insulation Thickness (mm) | Inner Sheath Thickness (mm) | Armour Thickness (mm) | Outer Sheath Thickness (mm) | Overall Diameter (mm) | Approx. Weight (kg/km) |
|---|---|---|---|---|---|---|---|
| 3 x 16 | 4.6 | 1.0 | 1.0 | 0.8 | 1.8 | 18.2 | 620 |
| 3 x 25 | 5.7 | 1.0 | 1.0 | 0.8 | 1.8 | 19.5 | 780 |
| 3 x 35 | 6.8 | 1.0 | 1.0 | 0.8 | 1.8 | 20.8 | 940 |
| 3 x 50 | 8.0 | 1.0 | 1.0 | 0.8 | 1.8 | 22.4 | 1150 |
| 3 x 70 | 9.7 | 1.1 | 1.0 | 0.8 | 1.8 | 24.6 | 1480 |
| 3 x 95 | 11.3 | 1.1 | 1.0 | 0.8 | 1.8 | 26.5 | 1820 |
| 3 x 120 | 12.8 | 1.2 | 1.0 | 0.8 | 1.8 | 28.4 | 2150 |
| 3 x 150 | 14.2 | 1.2 | 1.0 | 0.8 | 1.8 | 30.0 | 2480 |
| 3 x 185 | 15.8 | 1.2 | 1.0 | 0.8 | 1.8 | 31.8 | 2870 |
| 3 x 240 | 18.0 | 1.2 | 1.0 | 0.8 | 1.8 | 34.2 | 3420 |
| 3 x 300 | 20.1 | 1.2 | 1.0 | 0.8 | 1.8 | 36.5 | 4010 |
| 3 x 400 | 22.8 | 1.2 | 1.0 | 0.8 | 1.8 | 39.4 | 4780 |

**Copper 1.1 kV XLPE/PVC Power Cable**

| Size (mm²) | Conductor Diameter (mm) | Insulation Thickness (mm) | Inner Sheath Thickness (mm) | Armour Thickness (mm) | Outer Sheath Thickness (mm) | Overall Diameter (mm) | Approx. Weight (kg/km) |
|---|---|---|---|---|---|---|---|
| 3 x 16 | 4.6 | 1.0 | 1.0 | 0.8 | 1.8 | 18.2 | 620 |
| 3 x 25 | 5.7 | 1.0 | 1.0 | 0.8 | 1.8 | 19.5 | 780 |
| 3 x 35 | 6.8 | 1.0 | 1.0 | 0.8 | 1.8 | 20.8 | 940 |
| 3 x 50 | 8.0 | 1.0 | 1.0 | 0.8 | 1.8 | 22.4 | 1150 |
| 3 x 70 | 9.7 | 1.1 | 1.0 | 0.8 | 1.8 | 24.6 | 1480 |
| 3 x 95 | 11.3 | 1.1 | 1.0 | 0.8 | 1.8 | 26.5 | 1820 |
| 3 x 120 | 12.8 | 1.2 | 1.0 | 0.8 | 1.8 | 28.4 | 2150 |
| 3 x 150 | 14.2 | 1.2 | 1.0 | 0.8 | 1.8 | 30.0 | 2480 |
| 3 x 185 | 15.8 | 1.2 | 1.0 | 0.8 | 1.8 | 31.8 | 2870 |
| 3 x 240 | 18.0 | 1.2 | 1.0 | 0.8 | 1.8 | 34.2 | 3420 |
| 3 x 300 | 20.1 | 1.2 | 1.0 | 0.8 | 1.8 | 36.5 | 4010 |
| 3 x 400 | 22.8 | 1.2 | 1.0 | 0.8 | 1.8 | 39.4 | 4780