

DESCRIPTION

Non-Halogen Cable for 1500V Photovoltaic Power System Class 5 TC Stranding Low Smoke Density and Direct Burial Applied.

STANDARDS

IEC 60228, IEC 60332-1-2, IEC 60754, IEC 60811, IEC 61034, IEC 62930
 UL 44, UL 854, UL 1581, UL 2556, UL 4703
 EN 50618
 ROHS 2011/65/EU

CABLE CONSTRUCTION



| | |
|---------------------------|-------------------------|
| Conductor | Stranded tinned copper |
| Size | 6mm ² /10AWG |
| Stranding | 78/0.30 |
| Diameter | 3.0mm |
| Inner Layer | XLPO |
| Minimum Average Thickness | 1.14mm |
| Color | White (RAL9003) |
| Outer Layer | XLPO |
| Minimum Average Thickness | 0.8mm |
| Color | Black (RAL9005) |
| Diameter | 6.97±0.2mm |

ELECTRICAL CHARACTERISTICS (at +20°C)

| | |
|-------------------------|------------------------|
| Voltage Rating | |
| UL 4703 | AC 1000V, 2000V |
| EN 50618 | AC:1000V; DC:Max.1500V |
| IEC 62930 | AC:1000V; DC:Max.1500V |
| Working Temperature | 105°C Dry, 90°C Wet |
| Insulation Resistance | ≥ 1000 MΩ.km |
| Voltage Withstand | 6500 VAC |
| Conductor DC Resistance | ≤ 3.39 Ω/km |

OTHER CHARACTERISTICS

| | |
|---------------------------|-------------------|
| Bending Radius | |
| Dynamic | ≥ 5 X OD |
| Static | ≥ 4 X OD |
| Flammability | VW, IEC 60332-1-2 |
| Cable Light Transmittance | ≥ 60% |

PRINT LEGEND

H1Z2Z2-K 1X6mm² PV WIRE BYSON ELECTRONICS 62930 IEC 131 6mm² HALOGEN FREE LOW SMOKE BYSON ELECTRONICS
 E331483 (UL) 10AWG PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

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Notes: With or without solid line on whole length above will be required.
 Both marking will be required according to the purchase order.

HISTORY

| | | |
|--------------|---|-------|
| Mar 20, 2015 | First issue | Draft |
| Jun 22, 2015 | Adjust marking 1000V/2000V to 1000V OR 2000V | V0 |
| Oct 21, 2016 | Changing marking, withdrawn TUV 1169 according to EN standard requirement | V1 |
| Jan 10, 2018 | Update file | V2 |
| Apr 17, 2018 | Add IEC marking according to IEC 62930 standard requirement | V3 |