

## DESCRIPTION

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

## STANDARDS

IIEC 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  
 JCS 4517  
 Interpretation of EETS Article 46  
 ROHS 2011/65/EU

## CABLE CONSTRUCTION



|                           |                           |
|---------------------------|---------------------------|
| Conductor                 | Stranded tinned copper    |
| Size                      | 2.5mm <sup>2</sup> /14AWG |
| Stranding                 | 47/0.25                   |
| Diameter                  | 2.0mm                     |
| Inner Layer               | XLPO                      |
| Minimum Average Thickness | 0.76mm                    |
| Color                     | White (RAL9003)           |
| Outer Layer               | XLPO                      |
| Minimum Average Thickness | 1.1mm                     |
| Color                     | Black (RAL9005)           |
| Diameter                  | 5.8±0.1mm                 |

## ELECTRICAL CHARACTERISTICS (at +20°C)

|                                   |                           |
|-----------------------------------|---------------------------|
| Voltage Rating                    | 600V                      |
| UL 4703                           | AC: 1000V, DC: Max. 1500V |
| EN 50618                          | DC 1500V                  |
| JCS 4517                          | DC 1500V                  |
| Interpretation of EETS Article 46 | ≥ 1000 MΩ.km              |
| Insulation Resistance             | 6500 VAC                  |
| Voltage Withstand                 | ≤ 8.21Ω/km                |
| Conductor DC Resistance           |                           |

## OTHER CHARACTERISTICS

|                           |                                   |
|---------------------------|-----------------------------------|
| Bending Radius            |                                   |
| Dynamic                   | ≥ 5 X OD                          |
| Static                    | ≥ 4 X OD                          |
| Flammability              | IEC 60332-1-2, VW, JIS C 3665-1-2 |
| Working Temperature       | 105°C DRY, 90°C WET               |
| Cable Light Transmittance | ≥ 60%                             |

## PRINT LEGEND

E331483 (UL) 14AWG PV WIRE 105°C DRY 90°C WET 600V SUN RES -40°C DIR BUR H1Z2Z2-K 1X2.5mm<sup>2</sup> PV WIRE BYSON  
 ELECTRONICS S-JET DC 1500V PV-CC 2.5mm<sup>2</sup> PV CABLE 90°C  
 ——— E331483 (UL) 14AWG PV WIRE 105°C DRY 90°C WET 600V SUN RES -40°C DIR BUR ——— H1Z2Z2-K 1X2.5mm<sup>2</sup> PV  
 WIRE BYSON ELECTRONICS ——— S-JET DC 1500V PV-CC 2.5mm<sup>2</sup> PV CABLE 90°C ———

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

## HISTORY

|              |   |       |
|--------------|---|-------|
| Apr 25, 2016 | First issue   | Draft |
| Feb 6, 2017  | Changing marking, withdrawn TUV 1990 according to EN standard requirement | V0    |
| Jan 3, 2018  | Optimized file  | V1    |