



Application

Photovoltaic solar cable for interconnecting solar panels and associated equipment. Suitable for fixed indoor or outdoor installations and use within conduit.

Characteristics

Voltage Rating DC 1.5/1.5kV / AC 1.0/1.0kV

Max. permissible operating voltage AC 1.2/1.2kV / DC 1.8/1.8kV

Test Voltage AC 6.5kV 5 min / DC 15kV 5 min

Temperature in operation -40 °C to + 90 °C

Max. temperature at conductor 120 °C, based on EN 60216-1
20.000 hr 50 % residual elongation.

Short-circuit Temp +250 °C

Min. bending radius 8 x D

Water immersion AD7

Standards

BS EN 50618, IEC 62930, TUV 2Pfg1169/08.2007, EN 50267-2-2,
EN 60216, IEC 60332-1-2, EN 50267-1-2

Construction

Conductor

Flexible Tinned Copper Conductor according to IEC 60228 Class 5

Insulation

Halogen free, thermoset polyolefin optimised for maximum flexibility

Sheath

Halogen free, thermoset polyolefin optimised for maximum flexibility

Sheath Colour

Black, Red & Blue



Regulatory Compliance



RESPONSIBLY
PRODUCED
COPPER

The Copper Mark Partnership

- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

Cross Section (mm ²)	Approx. Outer Diameter (mm)	Approximate Weight (kg/km)	Current carrying capacity according to method of installation at ambient temperature: 30 °C			Max. Conductor DC Resistance at 20 °C (Ω/km)
			Single cable free in air (A)	Single cable on a surface (A)	Two loaded cables touching on a surface (A)	
1x1.5	4.5	35	31	30	24	13.7
1x2.5	4.9	45	42	40	33	8.21
1x4	5.4	62	57	54	45	5.09
1x6	6	82	72	69	58	3.39
1x10	7	123	98	96	80	1.95
1x16	8.2	185	132	130	107	1.24

This datasheet is for guidance only. While we believe the information is accurate at the time of publication, it is subject to manufacturing tolerances.

Fire performance


IEC 60332-1

Smoke & Corrosive Gas


EN 61034-2, IEC 60754-2

Weathering/ UV resistance


To EN 50618 Annex E

Ozone resistance


To EN 50396, IEC 60811-403

Halogen free


To EN 50267, EN 50525-1 Annex B

IMPACT RESISTANCE


To IEC 60811-506

Dynamic Penetration Resistance


To EN 50618 Annex D

EXTREME TEMPERATURES RESISTANCE


Min.: -40°C
IEC 60811-504 505 & 506

High Humidity Resistance


To EN 60068-2, EN 50618

Chemical Resistant


To EN 60811-404, EN 50618

ENVIRONMENTALLY FRIENDLY

Water Immersion


To EN 50618

RoHS Compliant
