

ALVERN CABLES - SOLAR PV1-F

Construction

Flexible tin plated copper class 5 CEI EN 60228, LSOH Rubber compound type G21, LSOH Rubber Compound type M21. Single core cables, for photovoltaic and solar system use, elastomeric compound insulated and sheathed. Flame retardant, halogen free, and a low smoke flexible cables for fixed laying, lifetime testing 20.000h/120°C.

Applications

Cable suitable for the interconnection of the various elements of photovoltaic systems. Suitable for fixed installation outside and inside without protection or inside pipes, ducts or similar closed systems High resistance against ozone, U.V. rays, oils, moisture and weather inclemencies. Suitable for use at an ambient temperature up to 90°C (120° overload) and tested according to TÜV-Rheinland 2 1169/08.2007 Standard. The estimated lifetime of these cables is at least 25 years.

Specification

Voltage Rating	1800 Volts DC
Temperature Range	-40° to +90°C
Flexibility Class	4 & 5
Conductor Type	Flexible tin plated/Copper class - 5CEI EN 60228
Insulation Material	XL Halogen Free FR
Sheath Material	XL Halogen Free FR
Sheath Colour	Black, Red
Bending Radius	4 x Diameter of cable

Packaging

Available in 500 metre drums.

TECHNICAL DATA

Nominal Size mm ²	Max. Diameter of wires mm	Insulation Thickness mm	Sheath Thickness mm	Outer Diameter mm	Max. cond. resist. at 20°C Ohm/km	Cable Weight kg/km
1x4	0.31	0.7	0.8	5.5	5.09	62
1x6	0.31	0.7	0.8	6.1	3.39	85
1x10	0.41	0.7	1.0	7.5	1.95	135
1x16	0.41	0.7	1.0	8.5	1.24	200