

Photovoltaic Solar PV1 -F Cable

Black, Unshielded, Single core



APPLICATION:

Intended for the interconnection within photovoltaic systems such as solar panel arrays. Suitable for fixed installations, internal and external, within conduit or systems, but not direct burial applications.

Our solar cable is ozone-resistant according to BS EN 50396, UV resistant according to HD 605/A1, and is tested for durability according to EN 60216. The cable is designed to last at least 25 years. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

FEATURES:

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Halogen-free cross-linked, flame retardant compound sheath

SPECIFICATION:

Colour	black
Wire Code	PV1-F
Cable type	Solar Cable
Shielding	unshielded
Conductor	Class 5 flexible tinned copper
Halogen-free	Yes
Conductor insulation	Halogen-free compound, cross-linked
Packaging	Sold by reel
Original packaging	100 m
Rated voltage	600/1000 VAC 900/1800 VDC
Max. Voltage	1.8 kV DC (conductor/conductor, non earthed system, circuit not under load)
Test voltage	6.5 kV
Temperature range	-40 ... 90°C
Maximum conductor temperature	+120 °C (for 20000h)
Minimum bending radius	Fixed: 4 x overall diameter Flexed: 5 x overall diameter
Cable Standards	IEC 60228/VDE 0295, HD 605/A1, BS EN 60754-1, BS EN 60754-2, BS EN 60684-2, BS EN 61034, BS EN 50396, BS EN/IEC 60332-1-2, BS EN/IEC 60216-1

DE-RATING FACTORS:

Ambient Temperature	Up to 60°C	70°C	80°C	90°C	100°C	110°C
De-Rating Factor	1.00	0.91	0.82	0.71	0.58	0.41

PRODUCT RANGE:	Cross-section	Nominal Overall Diameter	Current Carrying Capacity (in air)
Art. Nr.			
RND 475-00651	4.00 mm ²	5.2 mm	55 A
RND 475-00652	6.00 mm ²	5.9 mm	70 A