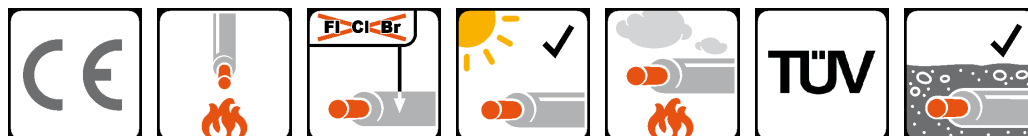


Solar Cable PV1-F DB

acc. to 2 Pfg 1169/08.07

conductor material:	tinned copper
conductor construction:	fine stranded, class 5
insulation:	cross-linked polyolefin
sheathing material:	cross-linked polyolefin
flame retardant:	VDE 0482-332-1-2/IEC 60332-1
halogen free:	DIN EN 50267/IEC 60754
maximum temperature at conductor:	120 °C
max. operating temperature, fixed:	-40 - +90 °C
temperature, moved/during installation:	-40 - +90 °C
bending radius, fixed installation:	4 x DA
bending radius, moved application:	6 x DA
nominal voltage U₀:	600 V
nominal voltage U:	1 kV
nominal voltage (DC):	0,9/1,8 kV
test voltage:	6,5 kV

Application: For free movable or fixed installation in photovoltaic installations according to EN 60364-7-712. Cable may be used indoor, outdoor, in earth (please note the laying instruction), in explosion hazard areas in industry and agriculture. The cable is considered to be short-circuit and earth-fault safe. It fulfills requirements of VDE-AR-E 2283-4.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics

p/n	part name	D _I [mm]	R _I [Ω/km]	I _{bl} [A]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg]
040966	PV1-F 01X4 black	3	5,09	55	5,7	60	38,4	60
040968	PV1-F 01X4 blue	3	5,09	55	5,7	60	38,4	60
040969	PV1-F 01X4 red	3	5,09	55	5,7	60	38,4	60
040967	PV1-F 01X6 black	3,9	3,39	70	6,4	82	58	80
040970	PV1-F 01X6 blue	3,9	3,39	70	6,4	82	58	80
040971	PV1-F 01X6 red	3,9	3,39	70	6,4	82	58	80
040972	PV1-F 01X10 black	5,1	1,95	98	7,3	150	96	120
040973	PV1-F 01X10 blue	5,1	1,95	98	7,3	150	96	120
040974	PV1-F 01X10 red	5,1	1,95	98	7,3	150	96	120
040886	FACAB SOLAR PV1-F 01X50 black	9	0,393	276	13,3	750	480	511
040887	FACAB SOLAR PV1-F 01X70 black	10,8	0,277	347	15,2	1050	672	700
040888	FACAB SOLAR PV1-F 01X95 black	12,6	0,21	416	17	1425	912	930
040889	FACAB SOLAR PV1-F 01X120 black	14,3	0,164	488	18,7	1800	1152	1175

p/n	part name	D _I [mm]	R _I [Ω/km]	I _{bl} [A]	D _A [mm]	F _{zv} [N]	Cu [kg/km]	G [kg]
040890	FACAB SOLAR PV1-F 01X150 black	15,9	0,132	566	20,7	2250	1440	1485
040892	FACAB SOLAR PV1-F 01X240 black	20,5	0,0817	775	25,5	3600	2304	2340
040938	PV1-F 01X300 black	27	0,0654		30		2880	2953

DI	diameter of conductor
RI	conductor resistance
Ibl	ampacity (in air)
DA	outer diameter
Fzv	tensile strength (during installation)
Cu	copper
G	weight