FG21M21 PV20 (1500 V cc) Extended Lifetime

Applications:	Single core flexible cables, suited for photovoltaic and solar system with crosslinked. Polymer insulation and halogen free sheath Tested for more than 25 years long life. Cable suitable for the interconnection of the various elements of photovoltaic systems, suitable for fixed installations outside and inside, unprotected pipes within sight or cashed out, or similar closed system. Ozone-resistant.UV-resistant. The Cable is tested for durability.
Core colour:	Light grey
Nominal voltage:	600v 1000v
Test Voltage:	6.5kV AC
Maximum voltage:	1800V DC (conductor-conductor, non earthed system circuit not under load)
Max operating temperature:	120°C
Max temperature in case of short circuit:	+200°C
Min operating temperature:	-40°C (without mechanical shocks)
Min installation and use temperature:	-40°C to +90°C
Min bending radius:	14 x diameter
Max tensole load:	15N/mm²
Standards:	TÜV 2 Pfg 1169/08.2007 IEC 61215 und 61646, IEC 60364-7-712:2002, VDE 0100 Teil 520

Size mm²	Max Ø of copper wires Mm	Insulation thickness Mm	Sheath thickness Mm	Outer diameter Mm	Max cond. Resistance at 20°C Ohms/km	Indicative cable weight Kg/km	BATT Part number Black -	BATT Part number Red -	BATT Part number Brown -	BATT Part number Grey -
1 x1.5	0.26	0.7	0.8	4.5	13.7	35	-	-	-	-
1 x2.5	0.26	0.7	0.8	5.4	8.21	42.2	26014	-	-	-
1 x 4	0.31	0.7	0.8	5.9	5.09	58.2	26001	26012	26027	26028
1 x 6	0.31	0.7	0.9	6.8	3.39	79.4	26002	26013	-	-
1 x 10	0.31	0.7	1.0	7.9	1.95	128.4	26003	-	-	-
1 x 16	0.41	0.7	1.0	9.0	1.24	184.5	26008	-	-	-
1 x 25	0.41	0.9	1.1	10.3	0.795	295	26009	-	-	-
1 x 35	0.41	0.9	1.1	11.5	0.565	390	-	-	-	-
1 x 50	0.41	1.0	1.2	13.2	0.393	560	-	-	-	-
1 x 70	0.51	1.1	1.2	15.1	0.277	770	26006	-	-	-
1 x 95	0.51	1.1	1.3	16.8	0.210	980	26007	-	-	-
1x120	0.51	1.2	1.3	18.8	0.164	1250	-	-	-	-

The data and the drawings of this technical leaflet are not binding and can be varied as a consequence of modifications and / or improvements deemed necessary by the manufacturer.

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Size mm²	Current carrying capacity and max short circuit current		Voltage drop (***) (mV/Am)		
	Current rating (*) (A) single cable in free air	Short circuit current (**) (A)	Direct current	Alternate current	
				Monophase	Three – phase
1 x 1.5	30	71	33.90	27.29	23.64
1 x 2.5	41	119	20.34	16.43	14.23
1 x 4	55	191	12.62	10.24	8.87
1 x 6	70	287	8.40	6.86	5.94
1 x 10	98	499	4.86	4.01	3.48
1 x 16	132	785	3.08	2.58	2.24
1 x 25	176	1225	1.98	1.70	1.47
1 x 35	218	1724	1.42	1.24	1.08
1 x 50	276	2478	0.98	0.90	0.78
1 x 70	347	3516	0.68	0.66	0.57
1 x 95	416	4638	0.52	0.53	0.46
1 x 120	488	5939	0.40	0.43	0.37

* Current rating evaluation according to CEI 20-91:2010 and IEC 60364, in the following conditions:
Environmental temperature: 60°C
Max conductor operating temperature: 120°C
Single cable in free air

**: Short Circuit Current evaluation is based on a theoretical calculation according to IEC 60724, in the following conditions:
Operating temperature on the conductor: 120°C
Max short circuit temperature: 250°C
Short Circuit duration: 5 seconds

***: Voltage drop evaluation is based on a theoretical calculation, in the following conditions:
Operating temperature on the conductor: 90°C
Cos ϕ: 0,8
Two single cable touching horizontal in monophase circuit. Cables in trefoil in three-phase circuit