



## FG21M21 PV20 CEI 20-91 V1

Single core flexible cables, for photovoltaic and solar system use with crosslinked polymer insulation and halogen free sheath.

### Applications:

Cable suitable for the interconnection of the various elements of photovoltaic systems, suitable for fixed installations outside and inside, unprotected pipes within sight or cased out, or similar closed system. Ozone-resistant according to EN50396. UV-resistant according to HD605/A1. The cable is tested for durability according to EN 60216 (indicated also in 2P fg169/08.2007) Standard interpretation under continuous use temperature 120°C for 20000h (= 2.3, years) continuous use temperature 90°C (= 30 years) For direct or indirect underground wiring.

### Conductor:

Flexible conductor TINNED copper, class 5.

### Insulation:

HEPR G21 special rubber

### Sheath:

Crosslinked sheath, M21.

### Sheath colour:

Black, Red, Blue

### Operating temperature:

+90°C - +120°C on the conductor

### Overload temperature:

120°C on the conductor

### Expected lifetime:

>25 years

### Rated voltage:

1200 v to 1800 v

### Test voltage:

4,000 v

### Max temperature in case of short circuit:

+250°C on the conductor

### Min bending radius:

Diameter 8 12 20 > 20

Terminal 2D 3D 4D 4D

Fixed 3D 3D 4D 4D

### Min installation temperature:

-40°C

### Max laying stress during installation:

15 N/mm<sup>2</sup>

### Standards:

CEI 20-91/20-91 V1 / CEI 20-35 / 20-37P2

EN 60332-1-2 / EN 50267-1-2 / EN 50267-2-2-EN 60216

TUV

Size mm <sup>2</sup>	Approx Conductor diameter Mm	Insulation thickness Mm	Outer Diameter Mm	Max cond. Resistance at 20°C Ohms/km	Indicati ve cable weight Kg/km	Current carrying capacities 60°C A	Current carrying buried 20°C A	BATT Part number Black	BATT Part number Red
1 x 1.5	1.5	0.7	5.1	13.7	38.4	30	24		
1 x 2.5	2.0	0.7	5.4	8.21	42.5	41	32		
1 x 4	2.5	0.7	5.9	5.09	58.2	55	41	26016	26019
1 x 6	3.0	0.7	6.8	3.39	79.4	70	52	26017	26018
1 x 10	3.9	0.7	7.9	1.95	128.4	98	70		
1 x 16	5.0	0.7	9.0	1.24	184.5	132	91		
1 x 25	6.4	0.9	10.8	0.795	276.8	176	118		
1 x 35	7.7	0.9	12.1	0.565	368.8	218	144		
1 x 50	9.2	1.0	14.8	0.393	557	276	178		
1 x 70	11.0	1.1	16.9	0.277	767	347	218		
1 x 95	12.5	1.1	18.7	0.210	989.6	416	258		
1 x 120	14.2	1.2	20.7	0.164	1232.8	488	298		