

DATA SHEET

FG16R16**FLEXIBLE POWER CABLE**

0.6/1 kV | CEI 20-13 | IEC 60502-1

APPLICATION

Power cable suitable for energy supply in industry, building sites and construction industry. For fixed wiring indoors and outdoors, even wet; for direct and indirect underground wiring. Suitable for installation at open air, on walls, metal structures, cable trays, pipes, wiring holders and similar devices. Suitable for bundle installations in environments at risk of fire.

**CONSTRUCTION**

Conductor	Copper, class 5 according to EN 60228
Insulation	G16 rubber compound
Outer sheath	R16 PVC compound
Sheath colour	Grey (other colours available on request)
Core identification	According to HD 308 S2 (Single core: black)

STANDARDS

CEI 20-13
Power cables
IEC 60502-1
Power cables with extruded insulation
EN 60228
Conductors, class 5
HD 308 S2
Core identification

CERTIFICATION

Cca-s3,d1,a3

KEY FEATURES**CPR**
Cca-s3,d1,a3Max. conductor
temperature
90 °CMax. short-circuit
temperature
250 °CMin. laying
temperature
-15 °CMin. bending
radius
6 × D**TECHNICAL DATA**

Rated voltage U_0/U	0.6/1 kV
Test voltage	4 kV
Max. conductor temperature	90 °C
Max. short-circuit temperature	250 °C
Min. laying temperature	-15 °C
Min. bending radius	6 × D
CPR classification	Cca-s3,d1,a3

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PRODUCT RANGE – SINGLE CORE

Part no.	Nominal cross-section (mm ²)	Max. conductor resistance at 20 °C (Ω/km)	Insulation thickness (mm)	Sheath thickness (mm)	Current capacity in air, 30 °C (A)	Current capacity in pipe in air, 30 °C (A)
FG16001	1.5	13.3	0.7	1.4	24	20
FG16002	2.5	7.98	0.7	1.4	33	28
FG16003	4	4.95	0.7	1.4	45	37
FG16004	6	3.30	0.7	1.4	58	48
FG16005	10	1.91	0.7	1.4	80	66
FG16006	16	1.21	0.7	1.4	107	88
FG16007	25	0.780	0.9	1.4	141	117
FG16008	35	0.554	0.9	1.4	176	144
FG16009	50	0.386	1.0	1.4	216	175
FG16010	70	0.272	1.1	1.4	279	222

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PRODUCT RANGE – SINGLE CORE (CONTINUED)

Part no.	Nominal cross-section (mm ²)	Current capacity buried, 20 °C K = 1 (A)	Current capacity buried, 20 °C K = 1.5 (A)	Current capacity buried pipe, 20 °C K = 1 (A)	Current capacity buried pipe, 20 °C K = 1.5 (A)
FG16001	1.5	26	24	23	21
FG16002	2.5	34	31	29	27
FG16003	4	43	40	38	35
FG16004	6	55	51	48	44
FG16005	10	73	68	64	59
FG16006	16	96	89	83	77
FG16007	25	124	115	108	100
FG16008	35	150	139	131	121
FG16009	50	186	173	162	150
FG16010	70	229	212	199	184

Permissible current rating values are according to:

- three-phase circuit
- laying depth of 0.8 m for buried cables

K = 1 - resistivity of the ground equal to 1.0 K-m/W

K = 1.5 - resistivity of the ground equal to 1.5 K-m/W



PRODUCT RANGE – SINGLE CORE (CONTINUED)

Part no.	Nominal cross-section (mm ²)	Max. outer diameter (mm)	Cable weight (approx.) (kg/km)
FG16001	1.5	8.2	55
FG16002	2.5	8.7	66
FG16003	4	9.3	84
FG16004	6	9.9	110
FG16005	10	10.9	150
FG16006	16	11.4	220
FG16007	25	13.2	310
FG16008	35	14.6	410
FG16009	50	16.4	560
FG16010	70	18.3	760
FG16011	95	20.4	960
FG16012	120	22.4	1210
FG16013	150	24.8	1480
FG16014	185	27.2	1790
FG16015	240	30.4	2320
FG16016	300	33.0	2840
FG16017	400	37.7	3735
FG16018	500	43.6	4660

Cable dimensions and weights are approximate and may vary.
Other cross-sections and configurations are available on request.



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