

RG16H1OR12 1.8/3 kV Cable



APPLICATION

Suitable for energy transmission between transformer rooms and big power users. For laying on air, into tube or open pass. Can be laid underground, also if not protected, complying with art. 4.3.11 of CEI 11-17 standard. The cable is suitable for the supply of electricity in buildings and other civil engineering works.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

1.8/3kV

Resistance to UV rays

(ISO 4892-2:2013 / IEC 60811-501:2012 / 1000h)

Temperature Rating

Max. operating temperature: 90°C

- Min. operating temperature: -15°C (without mechanical shocks)

- Max. short circuit temperature: 250°C

Minimum Bending Radius

12 D

STANDARDS

CEI 20-13, IEC 60502 CEI 20-16 (IEC 60840 per 26/45 kV)

EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

class 2, compact stranded wire, plain copper

Semiconductor layer

extruded (only cables $U_0/U \geq 6/10$ kV)

Insulation

HEPR rubber, G16 quality, Pb free

Semiconductor layer

Hextruded, cold stripping

(only cables $U_0/U \geq 6/10$ kV)

Identification of phases

threads or colored bands

Inner sheath

PVC based compound extruded, penetrating between the cores

Screen

plain copper tapes wrapped

Outer Sheath

PVC based compound, R12 quality

Sheath Colour

- red

Technical characteristics

Formation	Approx. conductor \varnothing	Average insulation thickness	Approx. external \varnothing	Approx. cable weight	Current rating A	
					in air	buried*
n° x mm ²	mm	mm	mm	kg/km		
3 x 10	4.0	2.0	22.7	895	85	93
3 x 16	4.8	2.0	24.0	1135	109	120
3 x 25	6.0	2.0	26.5	1520	145	155
3 x 35	7.0	2.0	29.0	1880	175	185
3 x 50	8.1	2.0	31.3	2330	208	216
3 x 70	9.7	2.0	35.2	3150	260	265
3 x 95	11.4	2.0	39.2	4100	318	315
3 x 120	12.9	2.0	42.8	5020	367	360
3 x 150	14.3	2.0	46.1	6040	415	400
3 x 185	16.0	2.0	49.9	7295	476	453
3 x 240	18.3	2.0	55.7	9355	555	520
3 x 300	21.0	2.0	61.5	11540	635	585
3 x 400	23.2	2.0	67.1	14650	716	651

Electrical characteristics

Formation	Max. electrical resistance at 20°C	Conductor apparent resistance at 90°C and 50Hz	Phase reactance	Capacity at 50Hz
n° x mm ²	Ω /Km	Ω /Km	Ω /Km	μ F/km
3 x 10	1.83	2.34	0.11	0.19
3 x 16	1.15	1.47	0.10	0.23
3 x 25	0.727	0.927	0.097	0.27
3 x 35	0.524	0.669	0.093	0.30
3 x 50	0.387	0.494	0.088	0.34
3 x 70	0.268	0.342	0.084	0.40
3 x 95	0.193	0.247	0.081	0.45
3 x 120	0.153	0.197	0.079	0.50
3 x 150	0.124	0.159	0.077	0.55
3 x 185	0.0991	0.129	0.076	0.60
3 x 240	0.0754	0.0990	0.074	0.68
3 x 300	0.0601	0.0807	0.072	0.75
3 x 400	0.0470	0.0651	0.071	0.83

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.