

# RG16H1OR12 6/10kV 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)

6/10kV

### 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 Ø	Average insulation thickness	Approx. external Ø	Approx. cable weight	Current rating A	
					in air	buried*
n° x mm2	mm	mm	mm	kg/km		
3 x 10	4.0	3.4	33.2	1670	73	78
3 x 16	4.8	3.4	35.1	1975	107	112
3 x 25	6.0	3.4	37.8	2435	145	149
3 x 35	7.0	3.4	40.3	2865	175	178
3 x 50	8.1	3.4	42.6	3395	208	210
3 x 70	9.7	3.4	46.9	4350	260	257
3 x 95	11.4	3.4	50.7	5375	316	307
3 x 120	12.9	3.4	55.1	6470	365	350
3 x 150	14.3	3.4	58.4	7585	407	390
3 x 185	16.0	3.4	62.3	8990	469	440
3 x 240	18.3	3.4	69.3	11365	550	510
3 x 300	21.0	3.4	75.1	13725	630	580
3 x 400	23.2	3.4	80.8	14275	720	655

## Electrical characteristics

Formation	Max. electrical resistance at 20°C	Conductor apparent resistance at 90°C and 50Hz	Phase reactance	Capacity at 50Hz
	Ω/Km	Ω/Km	Ω/Km	μF/km
n° x mm2				
3 x 10	1.83	2.34	0.14	0.16
3 x 16	1.15	1.47	0.13	0.18
3 x 25	0.727	0.927	0.12	0.21
3 x 35	0.524	0.669	0.11	0.23
3 x 50	0.387	0.494	0.11	0.26
3 x 70	0.268	0.342	0.10	0.29
3 x 95	0.193	0.247	0.097	0.32
3 x 120	0.153	0.197	0.094	0.36
3 x 150	0.124	0.159	0.091	0.38
3 x 185	0.0991	0.129	0.088	0.42
3 x 240	0.0754	0.0990	0.085	0.47
3 x 300	0.0601	0.0807	0.084	0.52
3 x 400	0.0470	0.0651	0.082	0.57

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.