

RG16H1R12 6/10kV Cable



APPLICATION

Suitable for the transport of energy between the substations and large users. For electrical power system in constructions and other civil engineering buildings, in order to limit fire and smoke production and spread, in accordance with the CPR. For free hanging, pipe or channel. Laying underground also not protected.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

6/10 kV

Temperature Rating

Maximum operating temperature: +90°C

Maximum short circuit temperature: +250°C

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

Minimum Bending Radius

12 D

STANDARDS

CEI 20-13, HD 620 IEC 60502 ppa

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

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

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	trefoil	flat	trefoil	flat
1 x 10	4.0	3.4	18.6	460	91	105	93	98
1 x 16	4.8	3.4	19.4	535	117	136	120	128
1 x 25	6.0	3.4	20.6	650	154	178	155	163
1 x 35	7.0	3.4	21.6	760	186	219	185	195
1 x 50	8.1	3.4	22.7	905	223	260	218	231
1 x 70	9.7	3.4	24.3	1190	279	325	270	285
1 x 95	11.4	3.4	26.0	1420	340	398	320	340
1 x 120	12.9	3.4	27.8	1695	395	460	365	385
1 x 150	14.3	3.4	29.4	2015	448	520	410	432
1 x 185	16.0	3.4	31.1	2380	516	600	464	490
1 x 240	18.3	3.4	33.9	3015	610	705	540	565
1 x 300	21.0	3.4	36.6	3705	703	810	605	635
1 x 400	23.2	3.4	39.8	4595	815	935	690	720
1 x 500	26.1	3.4	43.4	5740	945	1080	780	810
1 x 630	30.3	3.4	47.7	7280	1085	1230	875	900

Electrical characteristics

Formation	Max. electrical resistance at 20°C	Conductor apparent resistance at 90°C and 50Hz Ω /km		Phase reactance Ω /Km		Capacity at 50Hz μF/km
		trefoil	flat	trefoil	flat	
n° x mm2	Ω/Km	trefoil	flat	trefoil	flat	μF/km
1 x 10	1.83	2.34	2.34	0.16	0.21	0.16
1 x 16	1.15	1.47	1.47	0.15	0.20	0.18
1 x 25	0.727	0.927	0.927	0.14	0.19	0.21
1 x 35	0.524	0.669	0.669	0.13	0.19	0.23
1 x 50	0.387	0.494	0.494	0.12	0.18	0.26
1 x 70	0.268	0.342	0.342	0.12	0.17	0.29
1 x 95	0.193	0.246	0.246	0.11	0.17	0.32
1 x 120	0.153	0.196	0.196	0.11	0.16	0.36
1 x 150	0.124	0.159	0.158	0.10	0.16	0.38
1 x 185	0.0991	0.128	0.127	0.10	0.16	0.42
1 x 240	0.0754	0.0985	0.0973	0.097	0.16	0.47
1 x 300	0.0601	0.0797	0.0780	0.095	0.15	0.52
1 x 400	0.0470	0.0638	0.0617	0.092	0.15	0.57
1 x 500	0.0366	0.0517	0.0490	0.089	0.15	0.64
1 x 630	0.0283	0.0425	0.0390	0.087	0.15	0.73

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.