

RG16H1R12 3.6/6kV 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)

3.6/6 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	3.0	14.8	365	87	105	95	100
1 x 16	4.8	3.0	15.6	435	113	136	122	128
1 x 25	6.0	3.0	16.8	550	150	180	156	165
1 x 35	7.0	3.0	17.9	660	182	220	187	197
1 x 50	8.1	3.0	19.0	795	219	261	220	233
1 x 70	9.7	3.0	20.6	1015	275	328	271	286
1 x 95	11.4	3.0	22.3	1295	337	402	324	342
1 x 120	12.9	3.0	23.9	1550	390	465	370	390
1 x 150	14.3	3.0	25.3	1840	443	525	412	435
1 x 185	16.0	3.0	27.0	2190	512	605	468	491
1 x 240	18.3	3.0	29.3	2790	608	715	540	570
1 x 300	21.0	3.0	32.3	3465	700	820	610	640
1 x 400	23.2	3.0	34.7	4280	813	950	690	725
1 x 500	26.1	3.2	38.9	5430	940	1100	780	820
1 x 630	30.3	3.2	42.7	6910	1082	1260	875	915

Electrical characteristics

Formation	Max. electrical resistance at 20°C	Conductor apparent resistance at 90°C and 50Hz Ω/km		Phase reactanceΩ/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	0.14	0.20	0.15
1 x 16	1.15	1.47	1.47	0.14	0.19	0.17
1 x 25	0.727	0.927	0.927	0.13	0.18	0.20
1 x 35	0.524	0.669	0.668	0.12	0.18	0.23
1 x 50	0.387	0.494	0.494	0.11	0.17	0.25
1 x 70	0.268	0.342	0.342	0.11	0.17	0.29
1 x 95	0.193	0.246	0.246	0.10	0.16	0.33
1 x 120	0.153	0.196	0.196	0.10	0.16	0.37
1 x 150	0.124	0.159	0.158	0.097	0.16	0.40
1 x 185	0.0991	0.128	0.127	0.094	0.15	0.44
1 x 240	0.0754	0.0985	0.0974	0.091	0.15	0.49
1 x 300	0.0601	0.0797	0.0781	0.089	0.15	0.54
1 x 400	0.0470	0.0638	0.0618	0.087	0.15	0.60
1 x 500	0.0366	0.0517	0.0492	0.084	0.14	0.64
1 x 630	0.0283	0.0425	0.0392	0.082	0.14	0.72

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.