

RG16H1R12 12/20kV 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)

12/20 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 25	6.0	5.5	24.8	840	158	176	153	158
1 x 35	7.0	5.5	25.8	965	190	213	182	189
1 x 50	8.1	5.5	26.9	1120	230	255	216	225
1 x 70	9.7	5.5	28.5	1365	285	320	265	275
1 x 95	11.4	5.5	30.4	1680	348	390	315	329
1 x 120	12.9	5.5	32.6	2000	400	450	360	374
1 x 150	14.3	5.5	34.1	2320	450	510	402	416
1 x 185	16.0	5.5	35.9	2710	520	585	455	472
1 x 240	18.3	5.5	38.9	3395	615	690	528	545
1 x 300	21.0	5.5	41.6	4110	705	790	595	611
1 x 400	23.2	5.5	44.2	4980	815	910	674	690
1 x 500	26.1	5.5	48.0	6175	945	1050	762	776
1 x 630	30.3	5.5	52.1	7740	1087	1190	858	875

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	/Km					
1 x 25	0.727	0.927	0.927	0.14	0.20	0.16
1 x 35	0.524	0.669	0.669	0.14	0.20	0.17
1 x 50	0.387	0.494	0.494	0.13	0.19	0.18
1 x 70	0.268	0.342	0.342	0.13	0.19	0.21
1 x 95	0.193	0.246	0.246	0.12	0.18	0.23
1 x 120	0.153	0.196	0.196	0.12	0.18	0.25
1 x 150	0.124	0.159	0.158	0.11	0.17	0.27
1 x 185	0.0991	0.128	0.127	0.11	0.17	0.29
1 x 240	0.0754	0.0985	0.0972	0.11	0.16	0.32
1 x 300	0.0601	0.0797	0.0779	0.10	0.16	0.35
1 x 400	0.0470	0.0638	0.0616	0.099	0.16	0.39
1 x 500	0.0366	0.0517	0.0489	0.096	0.15	0.43
1 x 630	0.0283	0.0425	0.0389	0.093	0.15	0.49

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.