

RG16H1R12 8.7/15kV 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)

8.7/15 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 16	4.8	4.5	21.6	620	120	135	118	123
1 x 25	6.0	4.5	22.8	745	155	177	152	158
1 x 35	7.0	4.5	23.8	865	190	215	181	190
1 x 50	8.1	4.5	24.9	1010	225	258	213	224
1 x 70	9.7	4.5	26.5	1250	282	323	262	276
1 x 95	11.4	4.5	28.2	1540	345	393	313	330
1 x 120	12.9	4.5	30.2	1840	400	455	358	375
1 x 150	14.3	4.5	31.8	2170	450	515	396	420
1 x 185	16.0	4.5	33.7	2550	518	590	453	475
1 x 240	18.3	4.5	36.3	3190	615	700	525	550
1 x 300	21.0	4.5	39.4	3930	704	800	590	620
1 x 400	23.2	4.5	42.2	4805	816	920	670	700
1 x 500	26.1	4.5	45.8	5950	945	1060	760	785
1 x 630	30.3	4.5	49.9	7505	1088	1210	850	870

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
		trefoil	flat	trefoil	flat	
n° x mm2	Ω/km					μF/km
1 x 16	1.15	1.47	1.47	0.15	0.21	0.15
1 x 25	0.727	0.927	0.927	0.14	0.20	0.18
1 x 35	0.524	0.669	0.669	0.14	0.19	0.19
1 x 50	0.387	0.494	0.494	0.13	0.19	0.21
1 x 70	0.268	0.342	0.342	0.12	0.18	0.24
1 x 95	0.193	0.246	0.246	0.12	0.17	0.26
1 x 120	0.153	0.196	0.196	0.11	0.17	0.29
1 x 150	0.124	0.159	0.158	0.11	0.17	0.31
1 x 185	0.0991	0.128	0.127	0.11	0.16	0.34
1 x 240	0.0754	0.0985	0.0973	0.10	0.16	0.37
1 x 300	0.0601	0.0797	0.0780	0.099	0.16	0.42
1 x 400	0.0470	0.0638	0.0617	0.096	0.15	0.45
1 x 500	0.0366	0.0517	0.0490	0.092	0.15	0.51
1 x 630	0.0283	0.0425	0.0390	0.090	0.15	0.58

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.