RG16H1R12 1.8/3kV Cable

APPLICATION

Suitable for the transport of energy between the substations and largeusers.For electrical power system in constructions alnd other civil engineeringbulginngs,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 Uo/U (Um)

1.8/3 kV

Temperature Rating

Maximun operating temperature:+90°C

Maximun 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 60502pqa

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

class2, compact stranded wire, plain copper

Semiconductor layer

extruded (only cables Uo/U ≥ 6/10 kV)

Insulation

HEPR rubber, G16 quality, Pb free

Semiconductor layer

extruded, cold stripping (only cables Uo/U ≥ 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	2.0	12.8	300	87	111	99	104
1 x 16	4.8	2.0	13.6	365	114	145	126	133
1 x 25	6.0	2.0	14.8	470	149	190	162	171
1 x 35	7.0	2.0	15.9	580	181	230	193	204
1 x 50	8.1	2.0	17.0	700	219	276	227	241
1 x 70	9.7	2.0	18.6	920	275	345	278	294
1 x 95	11.4	2.0	20.3	1190	339	422	332	351
1 x 120	12.9	2.0	21.9	1440	393	487	377	399
1 x 150	14.3	2.0	23.3	1720	446	550	421	445
1 x 185	16.0	2.0	25.0	2065	516	635	477	500
1 x 240	18.3	2.0	27.1	2640	617	745	550	580
1 x 300	21.0	2.0	30.1	3310	709	855	621	650
1 x 400	23.2	2.0	32.5	4125	824	990	702	735
1 x 500	26.1	2.2	36.7	5250	954	1140	790	830
1 x 630	30.3	2.4	41.1	6760	1102	1300	885	930

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
n° x mm2	Ω/Km	trefoil	flat	trefoil	flat	µF/km
1 x 10	1.83	2.34	2.34	0.13	0.19	0.19
1 x 16	1.15	1.47	1.47	0.12	0.18	0.23
1 x 25	0.727	0.927	0.927	0.12	0.18	0.27
1 x 35	0.524	0.669	0.668	0.11	0.17	0.30
1 x 50	0.387	0.494	0.494	0.11	0.16	0.34
1 x 70	0.268	0.342	0.342	0.10	0.16	0.40
1 x 95	0.193	0.246	0.246	0.098	0.16	0.45
1 x 120	0.153	0.196	0.196	0.095	0.15	0.50
1 x 150	0.124	0.159	0.158	0.092	0.15	0.55
1 x 185	0.0991	0.128	0.127	0.089	0.15	0.60
1 x 240	0.0754	0.0985	0.0974	0.086	0.14	0.68
1 x 300	0.0601	0.0797	0.0781	0.084	0.14	0.75
1 x 400	0.0470	0.0638	0.0628	0.083	0.14	0.83
1 x 500	0.0366	0.0517	0.0492	0.081	0.14	0.88
1 x 630	0.0283	0.0425	0.0392	0.079	0.14	0.92