

ARG7H1(O)R Cable



APPLICATION

Medium Voltage power cables suitable for energy transmission between transformer rooms and big power users. For laying on air, into tube or open pass. Suitable for buried installations, and installations complying with art. 4.3.11 of CEI 11-17 standard.

CHARACTERISTICS

Voltage

3.6/6 (7.2)kV,
6/10 (12)kV,
12/20 (24)kV,
18/30 (36)kV

Temperature Rating

20°C to +60°C

Permissible Conductor Operating Temperature: +90°C

Permissible Short Circuit Temperature up to 5 sec: 250°C

Minimum Bending Radius

12 x Outer diameter

Maximum Tensile Stress

30 N/mm²

STANDARDS

CEI 20-13, IEC 60502, CEI 20-16, IEC 60885-3,
EN 60332-1-2, EN 60754-1

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 aluminium

Conductor Screen

Extruded compound

Insulation

HEPR G7 quality, Pb free

Insulation Screen

Extruded compound

Metallic Screen

Plain copper tapes wrapped

Filler

Extruded, penetrating between the cores

Longitudinal Waterblocking

Swellable Tapes

Outer Sheath

PVC (Polyvinyl Chloride) compound,

Rz quality

Sheath Colour

● Black

DIMENSIONS 3.6/6

KV					
NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
3	25	6	3.0	31.80	1425
3	35	7	3.0	34.06	1635
3	50	8.20	3.0	36.75	1925
3	70	9.90	3.0	40.50	2365
3	95	11.40	3.0	44.45	2885
3	120	13.10	3.0	48.00	3405
3	150	14.40	3.0	51.00	3880
3	185	16.20	3.0	55.15	4535
3	240	18.40	3.0	61.00	5560
3	300	20.65	3.0	65.95	6525
3	400	23.60	3.0	73.25	8505

ELECTRICAL CHARACTERISTICS 3.6/6 KV

MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CONDUCTOR RESISTANCE AT 90°C AND 50Hz Ω/Km	PHASE REACTANCE Ω/Km	CAPACITANCE AT 50Hz μF/km	CURRENT RATING A	
				In Air	Buried
1.20	1.270	0.15	0.14	125	125
0.868	1.113	0.14	0.15	150	145
0.641	0.822	0.13	0.17	164	163
0.443	0.568	0.13	0.19	205	204
0.320	0.411	0.12	0.21	250	245
0.253	0.325	0.12	0.23	288	280
0.206	0.265	0.11	0.25	326	312
0.164	0.211	0.11	0.27	372	354
0.125	0.161	0.10	0.30	438	408
0.100	0.130	0.096	0.34	502	460
0.0778	0.102	0.093	0.38	572	520

DIMENSIONS 6/10 KV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
3	25	6.10	3.4	38.10	1985
3	35	7.0	3.4	40.50	2250
3	50	8.1	3.4	42.90	2545
3	70	9.7	3.4	47.10	3105
3	95	11.4	3.4	50.80	3670
3	120	12.9	3.4	54.60	4275
3	150	14.3	3.4	57.60	4785
3	185	16.0	3.4	61.90	5537
3	240	18.3	3.4	68.20	6765
3	300	21.0	3.4	73.20	7825
3	400	23.6	3.4	81.30	10100

ELECTRICAL CHARACTERISTICS 6/10 KV

MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CONDUCTOR RESISTANCE AT 90°C AND 50Hz Ω/Km	PHASE REACTANCE /Km	CAPACITANCE AT 50Hz μF/km	CURRENT RATING A	
				In Air	Buried
1.20	1.222	0.12	0.21	113	116
0.868	1.113	0.11	0.23	137	139
0.641	0.822	0.11	0.26	162	164
0.443	0.568	0.10	0.29	203	200
0.320	0.411	0.097	0.32	246	239
0.253	0.325	0.094	0.36	285	273
0.206	0.265	0.091	0.38	317	304
0.164	0.211	0.088	0.42	366	343
0.125	0.161	0.085	0.47	429	398
0.100	0.130	0.084	0.52	491	452
0.0778	0.102	0.082	0.57	562	511

DIMENSIONS 12/20 KV

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
3	25	6.10	5.5	48.10	2980
3	35	7.0	5.5	50.40	3290
3	50	8.1	5.5	52.80	3645
3	70	9.7	5.5	56.45	4210
3	95	11.4	5.5	60.70	4905
3	120	12.9	5.5	64.95	5675
3	150	14.3	5.5	68.05	6180
3	185	16.0	5.5	72.20	7100
3	240	18.3	5.5	78.90	8490
3	300	21.0	5.5	83.95	9685
3	400	23.6	5.5	91.40	11975

ELECTRICAL CHARACTERISTICS 12/20 KV

MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CONDUCTOR RESISTANCE AT 90°C AND 50Hz Ω/Km	PHASE REACTANCE Ω/Km	CAPACITANCE AT 50Hz μF/km	CURRENT RATING A	
				In Air	Buried
1.20	1.222	0.21	0.17	125	115
0.868	1.113	0.20	0.17	150	145
0.641	0.822	0.19	0.18	175	175
0.443	0.568	0.19	0.21	220	210
0.320	0.411	0.18	0.23	265	255
0.253	0.325	0.18	0.25	305	290
0.206	0.265	0.17	0.27	345	320
0.164	0.211	0.17	0.29	406	360
0.125	0.161	0.16	0.32	470	420
0.100	0.130	0.16	0.35	590	500
0.0778	0.102	0.16	0.39	640	543

DIMENSIONS 18/30 KV

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL CONDUCTOR DIAMETER mm	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
185	16.0	8.0	85.50	9680

ELECTRICAL CHARACTERISTICS 18/30 KV

MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CONDUCTOR RESISTANCE AT 90°C AND 50Hz Ω/Km	PHASE REACTANCE Ω/Km	CAPACITANCE AT 50Hz μF/km	CURRENT RATING A	
				In Air	Buried
0.164	0.211	0.12	0.22	406	361

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.