



Low Voltage Cables

Product Catalogue

H07RN-F

2022



connecting you to our
cables with confidence.

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CERTIFICATION

Cables play an important role in distributing power and energy. It is essential for all cables to be inspected thoroughly for safe use. Thus, Goldberg cables have gone through vigorous testing to ensure that the quality, construction and safety meet the EC directive before bearing the Verband der Elektrotechnik (VDE) certification mark.



CONSTRUCTION

- Based on: CEI EN-50525-2-21 and IEC 60245-4
- Conductor: Flexible fine copper wires according to IEC 60228 Class 5
- Insulation: EPR/EPDM compound at least EI4 quality according to EN 50363-1
- Outer Sheath: CPE compound EM2 quality according to EN 50363-2-1

TECHNICAL DATA

- Nominal Voltage U_0/U : 450/750 V
- Fixed & Protected Installation: 600/1000 V AC
- Test Voltage: 2500 V
- Current Rating: according to IEC 60364-5-52/HD 516
- Temperature Rating: -35°C to 60°C
- Max Temperature: +90°C (for fixed installation)
- Short Circuit Temperature: 250°C
- Max Tensile Load: 15 N/mm²
- Min Bending Radius: 4 to 6 x D (outer diameter)
- Impact Resistant: according to AG2 condition
- Vibration Resistant: according to AH3 condition
- Flame Retardant: according to IEC 60332-1-2
- Oil Resistant: according to EN 60811-2-1
- UV Resistant: 720 h Test (xenon arc lamp)



APPLICATIONS

H07RN-F is a flexible rubber cable resistant to flame, chemical corrosion, oil, UV, impact, vibrations and mechanical stress. It is suitable for use in wet, dry or damp conditions. Installation is apt for permanent outdoor use or within a workshop with explosives environment. For example, horticulture, industrial workshop, large boilers, submersible pumps, heater plates, portable lamps, electric tools, electric appliances, portable motors and generators on building sites, etc.



FLAME
RETARDANT



UV
PROTECTION



HEAVY
INDUSTRIAL USE



IMPACT &
VIBRATION



4 – 6 D
BENDING RADIUS



WATER
RESISTANT



CHEMICAL &
OIL RESISTANT



FLEXIBLE
USE

CORE IDENTIFICATION

- Single Core: ● Black
- Two Cores: ● Brown ● Blue
- Three Cores: ● Brown ● Blue ● Green-and-Yellow
- Four Cores: ● Brown ● Black ● Grey ● Green-and-Yellow
- Five Cores: ● Brown ● Black ● Grey ● Blue ● Green-and-Yellow
- Multi-Cores: Black with white numbering ● Green-and-Yellow

Note: G – with green and yellow protective conductor
 x – without green and yellow protective conductor

DATA SHEET – SINGLE CORE

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
1 x 1.5	GB11015	1.5	0.8	5.7 – 6.7	13.30	19	52
1 x 2.5	GB11025	1.9	0.9	6.3 – 7.3	7.98	26	68
1 x 4	GB11040	2.4	1.0	7.2 – 8.2	4.95	34	94
1 x 6	GB11060	3.0	1.0	7.9 – 9.8	3.30	43	121
1 x 10	GB11100	4.0	1.2	9.5 – 10.5	1.91	60	196
1 x 16	GB11160	5.0	1.2	10.8 – 12.0	1.21	79	267
1 x 25	GB11250	6.5	1.4	12.7 – 13.9	0.78	104	386
1 x 35	GB11350	7.9	1.4	14.3 – 15.5	0.55	129	505
1 x 50	GB11500	9.4	1.6	16.5 – 17.7	0.38	162	685
1 x 70	GB11700	10.8	1.6	18.6 – 19.8	0.27	202	904
1 x 95	GB11950	13.0	1.8	20.8 – 21.6	0.20	240	1212
1 x 120	GB11200	14.2	1.8	22.8 – 24.0	0.16	280	1471
1 x 150	GB11500	16.7	2.0	25.8 – 27.0	0.12	321	1815
1 x 185	GB11850	18.0	2.2	28.0 – 29.2	0.10	363	2183
1 x 240	GB12400	20.5	2.4	31.0 – 32.6	0.08	433	2797
1 x 300	GB13000	23.0	2.6	34.1 – 35.9	0.06	497	3390
1 x 400	GB1400	25.4	2.8	37.4 – 38.8	0.04	586	4317

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DATA SHEET – TWO CORES

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
2 x 1	GB12010	1.2	0.8	7.7 – 9.0	19.50	15	104
2 x 1.5	GB12015	1.5	0.8	8.5 – 10.0	13.30	18.5	131
2 x 2.5	GB12025	1.9	0.9	10.2 – 11.6	7.98	25	186
2 x 4	GB12040	2.4	1.0	11.8 – 13.2	4.95	34	251
2 x 6	GB12060	3.0	1.0	13.3 – 14.8	3.30	43	329
2 x 10	GB12100	4.0	1.2	17.7 – 18.9	1.91	60	573
2 x 16	GB12160	5.0	1.2	20.2 – 21.4	1.21	79	781
2 x 25	GB12250	6.5	1.4	24.3 – 25.5	0.78	105	1135
2 x 35	GB12350	7.9	1.4	27.2 – 28.6	0.55	129	1491
2 x 50	GB12500	9.4	1.6	31.6 – 33.0	0.38	162	2015
2 x 70	GB12700	10.8	1.6	35.8 – 37.2	0.27	202	1651
2 x 95	GB12950	13.0	1.8	40.5 – 43.0	0.20	140	3498

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DATA SHEET – THREE CORES

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
3G 1	GB13010	1.2	0.8	8.3 – 9.5	19.5	12.5	124
3G 1.5	GB13015	1.5	0.8	9.2 – 10.6	13.30	15.5	154
3G 2.5	GB13025	1.9	0.9	10.9 – 12.3	7.98	21	218
3G 4	GB13040	2.4	1.0	12.7 – 14.1	4.95	29	302
3G 6	GB13060	3.0	1.0	14.1 – 15.5	3.30	36	394
3G 10	GB13100	4.0	1.2	19.1 – 20.1	1.91	51	704
3G 16	GB13160	5.0	1.2	21.8 – 23.0	1.21	67	966
3G 25	GB13250	6.5	1.4	26.1 – 27.3	0.78	89	1406
3G 35	GB13350	7.9	1.4	29.3 – 30.5	0.55	110	1823
3G 50	GB13500	9.4	1.6	34.1 – 35.5	0.38	138	2507
3G 70	GB13700	10.8	1.6	38.4 – 39.8	0.27	172	3340
3G 95	GB13950	13.0	1.8	43.6 – 45.2	0.20	204	4355
3G 120	GB13120	14.2	1.8	47.4 – 49.0	0.16	238	5270
3G 150	GB13150	16.7	2.0	53.6 – 55.6	0.12	273	6623
3G 185	GB13185	18.0	2.2	58.2 – 60.2	0.10	309	7964
3G 240	GB13240	20.5	2.4	65.6 – 67.6	0.08	365	10315

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DATA SHEET – FOUR CORES

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
4G 1	GB14010	1.2	0.8	9.2 – 10.6	19.5	13	151
4G 1.5	GB14015	1.5	0.8	10.2 – 11.6	13.30	16	192
4G 2.5	GB14025	1.9	0.9	12.1 – 13.5	7.98	22	269
4G 4	GB14040	2.4	1.0	14.0 – 15.4	4.95	30	372
4G 6	GB14060	3.0	1.0	15.8 – 17.1	3.30	37	500
4G 10	GB14100	4.0	1.2	20.9 – 22.1	1.91	52	872
4G 16	GB14160	5.0	1.2	23.8 – 25.4	1.21	69	1204
4G 25	GB14250	6.5	1.4	28.9 – 30.4	0.78	92	1758
4G 35	GB14350	7.9	1.4	32.5 – 33.9	0.55	114	2315
4G 50	GB14500	9.4	1.6	37.8 – 39.4	0.38	143	3180
4G 70	GB14700	10.8	1.6	42.7 – 44.3	0.27	178	4195
4G 95	GB14950	13.0	1.8	49.2 – 51.2	0.20	210	5608
4G 120	GB14120	14.2	1.8	53.0 – 55.0	0.16	246	6735
4G 150	GB14150	16.7	2.0	60.0 – 62.5	0.12	282	8477
4G 185	GB14185	18.0	2.2	64.6 – 67.0	0.10	319	10142
4G 240	GB14240	20.5	2.4	73.4 – 76.0	0.08	377	13195

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DATA SHEET – FIVE CORES

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
5G 1	GB15010	1.2	0.8	10.2 – 11.6	19.5	13.5	183
5G 1.5	GB15015	1.5	0.8	11.2 – 12.6	13.30	16.5	228
5G 2.5	GB15025	1.9	0.9	13.3 – 14.7	7.98	23	324
5G 4	GB15040	2.4	1.0	15.6 – 17.0	4.95	30	452
5G 6	GB15060	3.0	1.0	17.5 – 19.0	3.30	38	605
5G 10	GB15100	4.0	1.2	22.9 – 24.1	1.91	54	1060
5G 16	GB15160	5.0	1.2	26.5 – 28.1	1.21	71	1477
5G 25	GB15250	6.5	1.4	32.0 – 33.2	0.78	94	2149
5G 35	GB15350	7.9	1.4	36.0 – 37.8	0.55	117	2835
5G 50	GB15500	9.4	1.6	41.8 – 43.8	0.38	148	3846
5G 70	GB15700	10.8	1.6	47.5 – 49.5	0.27	185	5152
5G 95	GB15950	13.0	1.8	54.4 – 56.8	0.20	222	6813

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DATA SHEET – MULTI-CORES

NOMINAL SIZE	GOLDBERG NUMBER	CONDUCTOR Ø	NOMINAL INSULATION THICKNESS	MEAN OVERALL DIAMETER	RESISTANCE OF CONDUCTOR AT 20°C	CURRENT CARRYING CAPACITY AIR AMBIENT TEMPERATURE OF 30°C	APPROX WEIGHT OF CABLE
mm²		mm	mm	mm	Ω/km	A	kg/km
7G 1.5	GB17015	1.5	0.8	15.0 – 16.6	13.30	15	354
9G 1.5	GB19015	1.5	0.8	16.7 – 18.0	13.30	15	444
12G 1.5	GB11215	1.5	0.8	17.8 – 19.4	13.30	15	541
18G 1.5	GB11815	1.9	0.9	22.8 – 23.8	13.30	15	766
19G 1.5	GB11915	1.9	0.9	22.8 – 23.8	13.30	15	790
24G 1.5	GB12415	1.9	0.9	24.8 – 25.6	13.30	15	991
7G 2.5	GB17025	1.9	0.9	17.2 – 18.8	7.98	20	482
12G 2.5	GB11225	1.9	0.9	21.5 – 23.0	7.98	20	748
18G 2.5	GB11825	1.9	0.9	26.1 – 27.5	7.98	20	1060
19G 2.5	GB11925	1.9	0.9	26.1 – 27.5	7.98	20	1096
7G 4	GB17040	2.4	1.0	17.8 – 19.2	4.95	26	583
7G 6	GB17060	3.0	1.0	21.2 – 23.2	3.30	35	867

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