

H07RN-F rubber-sheathed cable, harmonized type



Technical data

- Rubber sheathed cable H07RN-F to DIN VDE 0285-525-2-21, BS 7919 DIN EN 50525-2-21, IEC 60245-4
- **Temperature range**
-30°C to +60°C
- Permissible **operating temperature** at conductor +60°C
- **Nominal voltage**
U₀/U 450/750 V
in case of protected and fixed installation
U₀/U 600/1000 V
- Max. permissible **operating voltage** in three phase and one phase a.c. system
U₀/U 476/825 V
direct current-system
U₀/U 619/1238 V
- **Test voltage** 2500 V
- **Permanent tensile load**
max. 15 N/mm²
- **Minimum bending radius**
for fixed installation 4x cable Ø
for guiding over roller 7,5x cable Ø
during winding on drums 5x cable Ø

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of rubber EI4 to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification to DIN VDE 0293-308
- up to 5 cores coloured
- from 6 cores with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of rubber EM2 to DIN VDE 0207-363-2-1/DIN EN 50363-2-1
- Sheath colour black

Properties

Resistant to

- Weather
- **Tests**
- Behaviour in fire to DIN VDE 0482-332-1-2
DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Ozone resistant of the insulation to DIN VDE 0472 part 805, test method A or part 805 A1, test method C
- Oil resistant test according to DIN VDE 0473-811-404, DIN EN 60811-404

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- The core identification of a single core sheathed, of an insulated wire is black.

Application

Heavy duty rubber-sheathed flexible cables are suited for use for medium mechanical stress in dry, damp and wet areas as well as in open air and in agriculture plants. They are used for equipment in industry works such as boilers, heating plates, hand lamps, electric tools such as drills, circular saws and homework tools as well as for transportable motors or machines at site. These cables are also suitable for fixed installation on plaster, in temporary buildings and residential barracks. They are suitable for direct laying on components and mechanical parts of machines, for example lifts and cranes. They can be used in case of protected and fixed installation in tubes or in equipment as well as rotor connecting cable of motors with a working voltage up to 1000 V alternating voltage or a direct voltage up to 750 V against ground. The operating direct voltage is permitted up to 900 V against ground when they are used in rail-coaches. Installation in hazardous areas according to DIN VDE 0165 is allowed.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
37001	1 x 1,5	5,7 - 7,1	14,4	58,0	16
37002	1 x 2,5	6,3 - 7,9	24,0	71,0	14
37003	1 x 4	7,2 - 9,0	38,0	100,0	12
37004	1 x 6	7,9 - 9,8	58,0	130,0	10
37005	1 x 10	9,5 - 11,9	96,0	230,0	8
37006	1 x 16	10,8 - 13,4	154,0	290,0	6
37007	1 x 25	12,7 - 15,8	240,0	420,0	4
37008	1 x 35	14,3 - 17,9	336,0	530,0	2
37009	1 x 50	16,5 - 20,6	480,0	750,0	1
37010	1 x 70	18,6 - 23,3	672,0	960,0	2/0
37011	1 x 95	20,8 - 26,0	912,0	1250,0	3/0
37012	1 x 120	22,8 - 28,6	1152,0	1560,0	4/0
37013	1 x 150	25,2 - 31,4	1440,0	1900,0	300 kcmil
37014	1 x 185	27,6 - 34,4	1776,0	2300,0	350 kcmil
37015	1 x 240	30,6 - 38,3	2304,0	2950,0	500 kcmil
37016	1 x 300	33,5 - 41,9	2880,0	3600,0	600 kcmil
37017	1 x 400	37,4 - 46,8	3840,0	4600,0	750 kcmil
37018	1 x 500	41,3 - 52,0	4800,0	6000,0	1000 kcmil
37019	2 x 1	7,7 - 10,0	19,0	98,0	18
37020	2 x 1,5	8,5 - 11,0	29,0	135,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
37021	2 x 2,5	10,2 - 13,1	48,0	193,0	14
37022	2 x 4	11,8 - 15,1	77,0	280,0	12
37023	2 x 6	13,1 - 16,8	115,0	330,0	10
37024	2 x 10	17,7 - 22,6	192,0	586,0	8
37025	2 x 16	20,2 - 25,7	307,0	810,0	6
37026	2 x 25	24,3 - 30,7	480,0	1160,0	4
37027	3 G 1	8,3 - 10,7	29,0	130,0	18
37028	3 G 1,5	9,2 - 11,9	43,0	165,0	16

Continuation ▶

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Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
37029	3 G 2,5	10,9 - 14,0	72,0	235,0	14	37056	4 G 120	53,0 - 66,0	4608,0	6830,0	4/0
37030	3 G 4	12,7 - 16,2	115,0	320,0	12	37057	4 G 150	58,0 - 73,0	5760,0	8320,0	300 kcmil
37031	3 G 6	14,1 - 18,0	173,0	420,0	10	37058	4 G 185	64,0 - 80,0	7104,0	9800,0	350 kcmil
37032	3 G 10	19,1 - 24,2	288,0	810,0	8	37059	4 G 240	72,0 - 91,0	9216,0	12100,0	500 kcmil
37033	3 G 16	21,8 - 27,6	461,0	1050,0	6	37060	4 G 300	80,0 - 101,0	11520,0	15200,0	600 kcmil
37034	3 G 25	26,1 - 33,0	720,0	1250,0	4	37061	5 G 1,5	11,2 - 14,4	72,0	240,0	16
37035	3 G 35	29,3 - 37,1	1008,0	1900,0	2	37062	5 G 2,5	13,3 - 17,0	120,0	345,0	14
37036	3 G 50	34,1 - 42,9	1440,0	2600,0	1	37063	5 G 4	15,6 - 19,9	192,0	485,0	12
37037	3 G 70	38,4 - 48,3	2016,0	3400,0	2/0	37064	5 G 6	17,5 - 22,2	288,0	650,0	10
37038	3 G 95	43,3 - 54,0	2736,0	4450,0	3/0	37065	5 G 10	22,9 - 29,1	480,0	1200,0	8
37039	3 G 120	47,4 - 60,0	3456,0	5180,0	4/0	37066	5 G 16	26,4 - 33,3	768,0	1550,0	6
37040	3 G 150	52,0 - 66,0	4320,0	6500,0	300 kcmil	37067	5 G 25	32,0 - 40,4	1200,0	2250,0	4
37041	3 G 185	57,0 - 72,0	5328,0	7860,0	350 kcmil	37068	5 G 35	35,7 - 45,1	1680,0	2750,0	2
37042	3 G 240	65,0 - 82,0	6912,0	10224,0	500 kcmil	37091	5 G 50	41,8 - 53,0	2400,0	3950,0	1
37043	3 G 300	72,0 - 90,0	8640,0	12620,0	600 kcmil	37154	5 G 70	47,5 - 60,0	3360,0	4740,0	2/0
37044	4 G 1	9,2 - 11,9	38,0	150,0	18	34090	5 G 95	54,0 - 67,0	4560,0	6600,0	3/0
37045	4 G 1,5	10,2 - 13,1	58,0	200,0	16	34349	5 G 120	58,0 - 73,0	5760,0	8180,0	4/0
37046	4 G 2,5	12,1 - 15,5	96,0	290,0	14	34127	5 G 150	64,0 - 80,0	7200,0	10600,0	300 kcmil
37047	4 G 4	14,0 - 17,9	154,0	395,0	12	37092	7 G 1,5	14,7 - 18,7	101,0	375,0	16
37048	4 G 6	15,7 - 20,0	230,0	540,0	10	37079	7 G 2,5	17,1 - 21,8	168,0	520,0	14
37049	4 G 10	20,9 - 26,5	384,0	950,0	8	37093	12 G 1,5	17,6 - 22,4	175,0	460,0	16
37050	4 G 16	23,8 - 30,1	614,0	1260,0	6	37096	12 G 2,5	20,6 - 26,2	288,0	760,0	14
37051	4 G 25	28,9 - 36,6	960,0	1860,0	4	37097	18 G 2,5	24,4 - 30,9	432,0	850,0	14
37052	4 G 35	32,5 - 41,1	1344,0	2380,0	2	37094	19 G 1,5	20,7 - 26,3	274,0	810,0	16
37053	4 G 50	37,7 - 47,5	1920,0	3190,0	1	37098	19 G 2,5	25,5 - 31,0	456,0	1075,0	14
37054	4 G 70	42,7 - 54,0	2688,0	4260,0	2/0	37095	24 G 1,5	24,3 - 30,7	346,0	1015,0	16
37055	4 G 95	48,4 - 61,0	3648,0	5600,0	3/0	37099	24 G 2,5	28,8 - 36,4	576,0	1390,0	14

Dimensions and specifications may be changed without prior notice. (RF01)