1 H07 RN-F rubber-sheathed cable

Technical data

- Rubber sheathed cable H07 RN-F to DIN VDE 0282 part 4, HD 22.4 S4, BS7919 IEC 60245-4
- **Temperature range** -30°C to +90°C
- **Permissible operating temperature** at conductor 90°C
- **Nominal voltage** U_0/U 0.6/1kV

  * The cable is designated 450/750V in accordance with VDE/IEC & meets or exceeds the AS5000-1 for the voltage rating of 0.6/1kV, R-EP-90.
- **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 5-7x cable Ø

Cable structure

- Copper conductor fine wire stranded, bare to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5 and HD 383
- Rubber core insulation EI7 to DIN VDE 0282 part 1
- Insulation thickness to DIN VDE 0282 part 4
- Core identification to DIN VDE 0293-308 and HD 186
- Core colours

  2 core: Blue, Brown
  3 core: Blue, Brown, Green/Yellow
  4 core: Brown, Black, Grey, Green/Yellow
  5 core: Blue, Brown, Black, Grey, Green/Yellow
  6 and more Black numbered Green/Yelow
- Cores stranded in layers with optimal lay-length
- Outer jacket of rubber black, rubber compound to DIN VDE 0282 part 1
- Sheath thickness to DIN VDE 0282 part 4

Properties

Resistant to

- Ozone
- Weather
- Submersible to 500 metres

- **Test**

  Test according to VDE 0482-332-1-2, DIN EN 60332-1-2/ 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 EN 60811-2-1

Note

- G = with green-yellow earth core;
  x = without green-yellow earth core.

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 agricultural 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. 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/EG.

Part Number	No. of cores x cross-sec. mm²	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km	AWG-No.
37001	1 x 1.5	6.7	14.4	58	16
37002	1 x 2.5	7.3	24	71	14
37003	1 x 4	8.2	38	100	12
37004	1 x 6	8.9	58	130	10
37005	1 x 10	10.5	96	230	8
37006	1 x 16	11.1	154	290	6
37007	1 x 25	12.9	240	420	4
37008	1 x 35	14.3	336	530	2
37009	1 x 50	16.8	480	750	1
37010	1 x 70	19.1	672	960	2/0
37011	1 x 95	21.9	912	1250	3/0
37012	1 x 120	23.4	1152	1560	4/0
37013	1 x 150	26.2	1440	1900	300 kcmil
37014	1 x 185	29.1	1776	2300	350 kcmil
37015	1 x 240	31.2	2304	2950	500 kcmil
37016	1 x 300	34.6	2880	3600	600 kcmil
37017	1 x 400	38.4	3840	4600	750 kcmil
37018	1 x 500	42.3	4800	6000	1000 kcmil

Part Number	No. of cores x cross-sec. mm2	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km	AWG-No.
37019	2 x 1	8.4	19	98	17
37020	2 x 1.5	9.1	29	135	16
37021	2 x 2.5	11.1	48	193	14
37022	2 x 4	12.5	77	280	12
37023	2 x 6	14.1	115	330	10
37024	2 x 10	18.7	192	586	8
37025	2 x 16	21.5	307	810	6
37026	2 x 25	26.3	480	1160	4
37027	3 G 1	8.6	29	130	17
37028	3 G 1.5	9.8	43	165	16
37029	3 G 2.5	11.6	72	235	14
37030	3 G 4	13.7	115	320	12
37031	3 G 6	14.9	173	420	10
37032	3 G 10	20.8	288	810	8
37033	3 G 16	23.4	461	1050	6
37034	3 G 25	28.1	720	1250	4
37035	3 G 35	30.3	1008	1900	2
37036	3 G 50	35.6	1440	2600	1
37037	3 G 70	39.4	2016	3400	2/0
37038	3 G 95	45.3	2736	4450	3/0
37039	3 G 120	49.4	3456	5180	4/0
37040	3 G 150	55.6	4320	6500	300 kcmil
37041	3 G 185	60.1	5328	7860	350 kcmil