



Technical data

- Rubber sheathed cable A07RN-F to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21
- **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 under consideration of total copper cross-sections
- **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, black with continuous white numbering
- Cores stranded in layers in 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

Test

- 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

Note

- G = with green-yellow conductor x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- A07RN-F = Authorized national rubber-sheathed cable
- Valid for design with central core + 7 cores.
- 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.

A07 RN-F (with green-yellow protective conductor)

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
37069	7 G 1,5	14,7 - 18,7	101,0	370,0	16
37070	7 G 2,5	17,1 - 21,8	168,0	500,0	14
37071	12 G 1,5	17,6 - 22,4	173,0	520,0	16
37072	12 G 2,5	20,6 - 26,2	288,0	720,0	14
37078	19 G 1,5	20,7 - 26,3	274,0	800,0	16
37073	19 G 2,5	25,5 - 31,0	456,0	1100,0	14
37074	24 G 2,5	28,8 - 36,4	576,0	1350,0	14
37075	27 G 1,5	25,5 - 31,5	385,0	1100,0	16
37076	27 G 2,5	30,0 - 37,0	640,0	1521,0	14
37077	37 G 2,5	34,0 - 37,5	720,0	1940,0	14

A07 RN-F (without green-yellow protective conductor)

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
37080	3 x 1,5	9,2 - 11,9	43,0	165,0	16
37081	3 x 2,5	10,9 - 14,0	72,0	235,0	14
37082	3 x 4	12,7 - 16,2	115,0	320,0	12
37083	3 x 6	14,1 - 18,0	173,0	495,0	10
37084	3 x 10	19,1 - 24,2	288,0	880,0	8
37085	3 x 16	21,8 - 27,6	461,0	1095,0	6
37086	3 x 25	26,1 - 33,0	720,0	1450,0	4
37087	3 x 35	29,3 - 37,1	1008,0	1900,0	2
37088	3 x 50	34,1 - 42,9	1440,0	2600,0	1
37089	4 x 10	20,9 - 26,5	384,0	1065,0	8
37090	4 x 25	28,9 - 36,6	960,0	1995,0	4

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