

H07RN-F 450/750V

EN 50525-2-21

Flexible rubber insulated and sheathed cables



CONSTRUCTION		
Conductors	Annealed flexible stranded tin coated or bare copper class 5 to EN 60228	
Separator	If needed a suitable tape separator between the conductor and insulation	
Insulation	Ethylene-propylene rubber (EPR) type EI4 in acc. to EN 50363-1	
Circuit identification	Colour coding of power conductors comply to HD 308, DIN VDE 0293- 308	
	Number of cores	G (earth core)
	2	-
	3	Green-yellow, blue, brown
	4	Green-yellow, brown, black, grey Green-yellow, Blue, Brown, Black ^a
	5	Green-yellow, blue, brown black, grey
	>5	Green-yellow, other cores black with white numbering
	^a for certain applications only	
Internal jacket	A synthetic thermosetting compound type EM3 in acc. to EN 50363-2-1	
Outer jacket	A synthetic thermosetting compound type EM2 in acc. to EN 50363-2-1	
Colour of outer jacket	Black or colours can be provided	

Minimum bending radius:	For cable diameter D (mm)			
	D ≤ 8	8 < D ≤ 12	12 < D ≤ 20	D > 20
For fixed installation:	3 D	3 D	4 D	4 D
At inlet of portable appliance or mobile equipment. No mechanical load on cable	4 D	4 D	5 D	6 D
Under mechanical load	6 D	6 D	6 D	8 D

FEATURES	
▪	Maximum conductor operating temperature: +60°C
▪	Maximum conductor temperature during short circuit: +250°C
▪	Lowest ambient temperature for fixed installation: -40°C
▪	Lowest ambient temperature for mobile installation: -25°C
▪	UV, sunlight, oil resistant

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FIRE PERFORMANCE

- **Flame retardant:** EN 60332-1-2:2004, IEC 60332-1-2:2004
- **CPR – class reaction to fire (acc EN 50575):** Eca

APPLICATIONS

- The cables may be rated 0,6/1 kV where the installation has been built in protection and for motors in lifting appliances –machine tools etc.
- Heavy-duty flexible cables for medium mechanical stress in dry and wet, suitable for large boiling installations, heating plates
- Inspections lamps , electrical tools such as drills circular saws
- Domestic electric tools, transportable motors etc.
- Other industrial applications

APPROVALS

BBJ HAR

Standard length cable packing

1000m on drums. Other forms of packing and delivery are available on request

SIZE	Number x maximum diameter of wire	Nominal thickness of insulation	Nominal thickness of jacket			Approx. O.D. of cable	Voltage drop	Approx. weight of cable	Maximum conductor resistance at 20°C
			Single	Double layer					
n x mm ²	mm	mm	mm	Internal	Outer	mm	V/A/km	kg/km	Ω/km
1 x 1,5	28x0,26	0,8	1,4	—	—	5,9	23,73	49	13,7
1 x 2,5	45x0,26	0,9	1,4	—	—	6,6	14,22	66	8,21
1 x 4	51x0,31	1,0	1,5	—	—	7,3	8,82	89	5,09
1 x 6	76x0,31	1,0	1,6	—	—	7,9	5,88	114	3,39
1 x 10	74x0,41	1,2	1,8	—	—	9,8	3,38	178	1,95
1 x 16	116x0,41	1,2	1,9	—	—	11,5	2,16	248	1,24
1 x 25	180x0,41	1,4	2,0	—	—	12,9	1,39	356	0,795
1 x 35	254x0,41	1,4	2,2	—	—	14,7	0,99	471	0,565
1 x 50	364x0,41	1,6	2,4	—	—	16,8	0,70	657	0,393
1 x 70	514x0,51	1,6	2,6	—	—	19,3	0,51	881	0,277
1 x 95	684x0,51	1,8	2,8	—	—	21,9	0,40	1156	0,210
1 x 120	870x0,51	1,8	3,0	—	—	23,7	0,33	1411	0,164
1 x 150	1092x0,51	2,0	3,2	—	—	26,0	0,28	1762	0,132
1 x 185	1325x0,51	2,2	3,4	—	—	29,1	0,24	2145	0,108
1 x 240	1752x0,51	2,4	3,5	—	—	31,2	0,20	2720	0,0817
1 x 300	2203x0,51	2,6	3,6	—	—	35,7	0,19	3321	0,0654
2 x 1	29x0,21	0,8	1,3	—	—	8,0	40,00	89	20,0
2 x 1,5	28x0,26	0,8	1,5	—	—	8,9	27,40	116	13,7
2 x 2,5	45x0,26	0,9	1,7	—	—	10,6	16,42	167	8,21
2 x 4	51x0,31	1,0	1,8	—	—	12,1	10,18	227	5,09
2 x 6	76x0,31	1,0	2,0	—	—	13,7	6,78	301	3,39
2 x 10	74x0,41	1,2	—	1,2	1,9	18,9	3,90	559	1,95
2 x 16	116x0,41	1,2	—	1,3	2,0	21,6	2,49	765	1,24

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