

# H05 RR-F / H05 RN-F rubber-sheathed cable, VDE approved



## Technical data

- To DIN VDE 0282 part 4, HD 22.4 S3 IEC 60245-4
- **Temperature range**  
-30°C to +60°C
- Permissible **operating temperature** at conductor +60°C
- **Nominal voltage**  $U_0/U$  300/500 V
- **Max. operating voltage** three-phase and one-phase a.c.  $U_0/U$  318/550 V for direct current  $U_0/U$  413/825 V
- **Test voltage** 2000 V
- **Minimum bending radius**  
approx. 7,5x cable Ø

## Cable construction

- Bare or tinned copper conductors, fine stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5 and HD 383
- Rubber core insulation EI4 to DIN VDE 0282 part 1
- Cores laid up
- Cores colour coded to DIN VDE 0293-308 and HD 186
- Outer jacket black:  
RR-F = Rubber, EM 3 to DIN VDE 0282 part 1  
RN-F = EM 2 to DIN VDE 0282 part 1

## Properties

- **Resistant to**  
Ozone
- Oils and fats are allowed to come in touch
- **Behaviour in fire** according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- H05 RR-F is replaced the former type NLH and NMH up to 2,5 mm².
- H05 RN-F is replaced to former type NMH0U up to 1 mm².  
at 1,5 mm² - not in VDE; adapted to VDE (H)05 RN-F  
Art.no. 36008 = national type: A-05 RN-F  
Art.no. 36007 = (A)05 RN-F, outer jacket colour grey, for window shades manufacturer

## Application

### H05 RR-F according to DIN VDE 0282, part 4

These cables are suitable for connecting electrical appliances, for example vacuum cleaner, flat irons, soldering irons, kitchen appliances, toaster, stoves etc. They were also used for medium mechanical stress in households and offices. These cables are suitable for fixed installation in partition walls, furniture, decoration covering and in hollow spaces of prefabricated building parts. They are suitable for use in open air for short time, in industries (also permitted to tailor workshops and of that kind) or in agriculture plants and for connecting commercial electrical tools.

### H05 RN-F according to DIN VDE 0282, part 4

These cables are suitable for connecting electrical equipment with low mechanical stress in dry, damp and wet places as well in open air, for example as connection cable for horticulture tools. These cables can be used in contact with fats and oils (for example deep fryer). They are also suitable for fixed installation, for example in furniture, decoration covering, partition walls and in hollow spaces of prefabricated building parts. The installation in hazardous areas is allowed.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

### H05 RR-F

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
35001	2 x 0,75	5,7 - 7,4	14,4	60,0	18
35005	3 G 0,75	6,2 - 8,1	21,6	74,0	18
35009	4 G 0,75	6,8 - 8,8	29,0	78,0	18
35019	5 G 0,75	7,6 - 9,9	36,0	99,0	18
35002	2 x 1	6,1 - 8,0	19,0	72,0	17
35006	3 G 1	6,5 - 8,5	29,0	85,0	17
35010	4 G 1	7,1 - 9,3	38,0	98,0	17
35020	5 G 1	8,0 - 10,3	48,0	134,0	17
35003	2 x 1,5	7,6 - 9,8	29,0	98,0	16
35007	3 G 1,5	8,0 - 10,4	43,0	120,0	16
35011	4 G 1,5	9,0 - 11,6	58,0	150,0	16
35013	5 G 1,5	9,8 - 12,7	72,0	180,0	16
35004	2 x 2,5	9,0 - 11,6	48,0	145,0	14
35008	3 G 2,5	9,6 - 12,4	72,0	170,0	14
35012	4 G 2,5	10,7 - 13,8	96,0	220,0	14
35014	5 G 2,5	11,9 - 15,3	120,0	270,0	14
35015	3 G 4	11,3 - 14,5	115,0	260,0	12
35017	4 G 4	12,7 - 16,2	154,0	340,0	12
35016	3 G 6	12,8 - 16,3	173,0	361,0	10
35018	4 G 6	14,2 - 18,1	230,0	462,0	10

### H05 RN-F

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
36001	2 x 0,75	5,7 - 7,4	14,4	78,0	18
36003	3 G 0,75	6,2 - 8,1	21,6	94,0	18
36007	4 G 0,75	6,8 - 8,8	29,0	90,0	18
36008	4 G 0,75	6,8 - 8,8	29,0	90,0	18
36002	2 x 1,0	6,1 - 8,0	19,0	94,0	17
36004	3 G 1,0	6,5 - 8,5	29,0	114,0	17
36005	3 G 1,5	8,6 - 11,0	43,0	157,0	16
36006	5 G 1,5	10,5 - 13,5	72,0	228,0	16

Dimensions and specifications may be changed without prior notice.