

Harsh use conditions

Rubber cables

H05RR-F



Info

- Harmonised (HAR)
- International use

H05RN-F



Info

- Harmonised (HAR)
- International use

H07RN-F



Info

- Harmonised (HAR)
- International use

■ Benefits

H05RR-F

- Light duty rubber-sheathed cable
- For light workshop devices with light to medium stress

H05RN-F

- Medium-duty, rubber sheathed cable
- For lightweight workshop tools subject to medium loads

H07RN-F

- Heavy-duty, rubber-sheathed cable
- High stresses
- Allowed up to 1000 V (0,6/1 kV) alternating voltage within protected and fixed installation
- Arrangements from single core rubber-sheathed cables H07RN-F can be used for short-circuit and short-to-ground proof installation in accordance with VDE 0100 Part 520

■ Application range

H05RR-F

- Hand-held equipment
- Dry and damp interiors, as well as for temporary outdoor use

H05RN-F

- Hand-held equipment
- Dry and damp interiors, as well as outdoor use

H07RN-F

- Hand-held equipment
- Tools and agricultural machinery
- Dry and damp interiors, as well as outdoors and temporary in industrial water

■ Product features

H05RR-F

- Flame retardant

H05RN-F

- Flame-retardant acc. to IEC 60332-1-2
- Oil-resistant acc. to EN 60811-2-1

H07RN-F

- Flame-retardant acc. to IEC 60332-1-2
- Oil-resistant acc. to EN 60811-2-1

■ Approvals (Norm references)



■ Product Make-up

H05RR-F

- Copper wire acc. to HAR bare or tinned
- Core insulation of rubber type EI 4
- Outer jacket of rubber type EM 3

H05RN-F

- Copper wire acc. to HAR bare or tinned
- Core insulation of rubber type EI 4
- Outer jacket of rubber type EM 2

H07RN-F

- Copper wire acc. to HAR bare or tinned
- Core insulation of rubber type EI 4
- Outer jacket of rubber type EM 2

■ Technical data



Core identification code

up to 5 cores: acc. to VDE 0293-308 (table T9) starting at 6 cores: black with white numbers



Approvals

VDE 0282 Part 4 / HD 22.4 S4

Specific insulation resistance

1 GOhm x cm



Conductor stranding

fine wire acc. to VDE 0295 Cl.5/ IEC 60228 Cl. 5



Minimum bending radius

flexible use: 6 x outer diameter



Rated voltage

H05RR-F

U₀/U: 300/500 V

H05RN-F

U₀/U: 300/500 V

H07RN-F

U₀/U: 450/750 V in protected and fixed installations: U₀/U: 600/1000 V



Test voltage

H05RR-F

2000 V

H05RN-F

2000 V

H07RN-F

2500 V



Protective conductor

G = with protective conductor GN/YE
X = without protective conductor



Current rating

acc. to VDE 0298 part 4 Tab. 11 and 13



Range of temperature

flexible use: -25°C to +60°C

H05RR-F / H05RN-F / H07RN-F

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
H05RR-F U0/U: 300/500 V				
1600203	2 X 0.75	5.7 - 7.4	14.4	61
1600207	3 G 0.75	6.2 - 8.1	21.6	75
1600204	2 X 1	6.1 - 8.0	19.0	73
1600208	3 G 1	6.5 - 8.5	29.0	86
16002113	4 G 1	7.1 - 9.3	38.0	105
1600205	2 X 1.5	7.6 - 9.8	29.0	115
1600200	3 G 1.5	8.0 - 10.4	43.0	135
16002013	4 G 1.5	9.0 - 11.6	58.0	165
16002023	5 G 1.5	9.8 - 12.7	72.0	190
1600206	2 X 2.5	9.0 - 11.6	48.0	160
1600209	3 G 2.5	9.6 - 12.4	72.0	190
16002123	4 G 2.5	10.7 - 13.8	96.0	235
16002133	5 G 2.5	11.9 - 15.3	120.0	285
H05RN-F U0/U: 300/500 V (4 core version as S05RN-F)				
1600250	2 X 0.75	5.7 - 7.4	14.4	80
1600252	3 G 0.75	6.2 - 8.1	21.6	95
16002583	4 G 0.75	6.8 - 8.8	30.0	105
1600251	2 X 1	6.1 - 8.0	19.0	95
1600253	3 G 1	6.5 - 8.5	29.0	115
H07RN-F U0/U: 450/750 V				
1600117	3 G 1	8.3 - 10.7	29.0	130
1600199	2 X 1.5	8.5 - 11.0	29.0	135
1600103	3 G 1.5	9.2 - 11.9	43.0	165
16001233	4 G 1.5	10.2 - 13.1	58.0	200
16001043	5 G 1.5	11.2 - 14.4	72.0	240
1600151	7 G 1.5	14.0 - 17.5	101.0	385
1600148	12 G 1.5	17.6 - 22.4	173.0	516
1600259	19 G 1.5	20.7 - 26.3	274.0	800
1600166	24 G 1.5	24.3 - 30.7	346.0	882
1600263	25 G 1.5	25.1 - 25.9	360.0	918
1600187	2 X 2.5	10.2 - 13.1	48.0	195
1600118	3 G 2.5	10.9 - 14.0	72.0	235
16001053	4 G 2.5	12.1 - 15.5	96.0	290
16001293	5 G 2.5	13.3 - 17.0	120.0	345
1600152	7 G 2.5	16.5 - 20.0	168.0	520
1600154	12 G 2.5	20.6 - 26.2	288.0	810
1600156	19 G 2.5	25.5 - 31.0	456.0	1,200
1600157	24 G 2.5	28.8 - 36.4	576.0	1,650
1600186	2 X 4	11.8 - 15.1	77.0	270
1600119	3 G 4	12.7 - 16.2	115.0	320
16001063	4 G 4	14.0 - 17.9	154.0	395
16001303	5 G 4	15.6 - 19.9	192.0	485
1600161	7 G 4	21.0 - 21.8	268.8	681
1600120	3 G 6	14.1 - 18.0	173.0	495
16001073	4 G 6	15.7 - 20.0	230.0	610
16001313	5 G 6	17.5 - 22.2	288.0	760
1600121	3 G 10	19.1 - 24.2	288.0	880
16001083	4 G 10	20.9 - 26.5	384.0	1,060
16001093	5 G 10	22.9 - 29.1	480.0	1,300
1600122	3 G 16	21.8 - 27.6	461.0	1,090
16001103	4 G 16	23.8 - 30.1	614.0	1,345
16001113	5 G 16	26.4 - 33.3	768.0	1,680
16001123	4 G 25	28.9 - 36.6	960.0	1,995
16001133	5 G 25	32.0 - 40.4	1,200.0	2,470
1600124	3 G 35	29.3 - 37.1	1,008.0	1,900
16001143	4 G 35	32.5 - 41.1	1,344.0	2,645
16001363	5 G 35	37.0 - 45.0	1,680.0	2,810
16001153	4 G 50	37.7 - 47.5	1,920.0	3,635
1600126	5 G 50	40.0 - 50.8	2,400.0	4,050
16001163	4 G 70	42.7 - 54.0	2,688.0	4,830
16001283	4 G 95	48.4 - 61.0	3,648.0	6,320
16001323	4 G 120	53.0 - 66.0	4,608.0	6,830
16000883	4 G 150	58.0 - 73.0	5,760.0	8,320
1600141	4 G 185	64.0 - 80.0	7,104.0	9,800
1600183	4 G 240	72.0 - 91.0	9,216.0	12,100
Single Core Rubber Cable H07RN-F U0/U: 450/750 V				
1600096	1 X 1.5	5.7 - 7.1	14.4	59
1600099	1 X 2.5	6.3 - 7.9	24.0	72
1600097	1 X 4	7.2 - 9.0	38.0	99
1600098	1 X 6	7.9 - 9.8	58.0	130
1600194	1 X 10	9.5 - 11.9	96.0	230
1600195	1 X 16	10.8 - 13.4	154.0	320
1600196	1 X 25	12.7 - 15.8	240.0	450
1600193	1 X 35	14.3 - 17.9	336.0	605
1600197	1 X 50	16.5 - 20.6	480.0	825
1600189	1 X 70	18.6 - 23.3	672.0	1,090
1600190	1 X 95	20.8 - 26.0	912.0	1,405
1600198	1 X 120	22.8 - 28.6	1,152.0	1,745
1600191	1 X 150	25.2 - 31.4	1,440.0	1,887
1600175	1 X 185	27.6 - 34.4	1,776.0	2,274
1600177	1 X 240	30.6 - 38.3	2,304.0	2,955
30015435	1 X 300	33.5 - 41.9	2,880.0	3,479

Copper price basis: EUR 150 / 100 kg
 Our standard lengths, please visit: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)
 Crosssection 5G35 and 5G50 without <HAR>

Comparable products

H05RN-F

- H07ZZ-F see page 82

H07RN-F

- H07ZZ-F see page 82
- ÖLFLEX® AQUA RN8 see page 87

Accessories

H07RN-F

- EASY STRIP 2 stripping and cutting tool see page 822
- PWE 8.87 crimping pliers see page 837
- KS 20 cable shears see page 820
- SKINTOP® CLICK / CLICK-R see page 555

