



## H05RR-F

Rubber cable for light mechanical stress and handheld devices used in households, kitchens, offices

**Info**

- Light mechanical stress



### Benefits

- Type-compliant versions <HAR>-certified with “<HAR>” testing and certification mark for accelerated granting of approvals if final application of cable is within the European CENELEC area

### Application range

- Handheld and power supply devices according to EN 50565-2
- For lightweight workshop tools that are subject to light loads
- According to EN 50565-2: dry and damp rooms; only temporary use outdoors; not for industrial/commercial or agricultural facilities, except tailors/cutting workshops; not suitable for supplying industrial power tools
- Light & sound technology

### Product features

- Ozone-resistant

### Norm references / Approvals

- <HAR> cable type approval according to EN 50525-2-21

### Product Make-up

- Bare copper wire according to HAR
- Core insulation: rubber compound, type EI 4
- Outer sheath: rubber compound, type EM3

### Technical data

- Classification**  
ETIM 5.0 Class-ID: EC001578  
ETIM 5.0 Class-Description: Flexible cable
- Core identification code**  
Coloured according to HD 308
- Conductor stranding**  
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**  
4 to 8 x outer diameter (EN 50565-1)
- Nominal voltage**  
U<sub>0</sub>/U: 300/500 V
- Test voltage**  
2000 V
- Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor
- Current rating**  
According to IEC 60364-5-52/  
VDE 0298-4  
EN 50565-1/ VDE 0298-565-1
- Temperature range**  
Flexible use: -25°C to +60°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>H05RR-F</b>				
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 1.0	6.1 - 8.0	19.2	73
1600208	3 G 1.0	6.5 - 8.5	28.8	86
16002113	4 G 1.0	7.1 - 9.3	38.4	105
1600205	2 X 1.5	7.6 - 9.8	28.8	115
1600200	3 G 1.5	8.0 - 10.4	43.2	135
16002013	4 G 1.5	9.0 - 11.6	57.6	165
16002023	5 G 1.5	9.8 - 12.7	72	190
1600206	2 X 2.5	9.0 - 11.6	48	160
1600209	3 G 2.5	9.6 - 12.4	72	190
16002123	4 G 2.5	10.7 - 13.8	96	235
16002133	5 G 2.5	11.9 - 15.3	120	285

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
Photographs are not to scale and do not represent detailed images of the respective products.

### Similar products

- H05RN-F refer to page 90



## H05RN-F

Rubber cable for handheld devices and chains of decorative lights



**Info**

- Oil-resistant

### Benefits

- Type-compliant versions <HAR>-certified with “<HAR>” testing and certification mark for accelerated granting of approvals if final application of cable is within the European CENELEC area

### Application range

- According to EN 50565-2: for supplying devices in households, kitchens or offices under light mechanical stress; handheld inspection lamps
- According to EN 50565-2: provided the maximum conductor temperature of +60 °C, the maximum outer sheath surface temperature of +50 °C and the lack of ozone resistance are taken into account, suitable for permanent use outdoors with conventional mechanical stress

### Product features

- Flame-retardant according IEC 60332-1-2
- Oil-resistant according to EN 60811-404

### Norm references / Approvals

- <HAR> cable type approval according to EN 50525-2-21

### Product Make-up

- Bare copper wire according to HAR
- Core insulation: rubber compound, type EI 4
- Outer sheath: rubber compound, type EM2

### Technical data

**Classification**  
ETIM 5.0 Class-ID: EC001578  
ETIM 5.0 Class-Description: Flexible cable

**Core identification code**  
Coloured according to HD 308

**Conductor stranding**  
Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5

**Minimum bending radius**  
4 to 8 x outer diameter (EN 50565-1)

**Nominal voltage**  
U<sub>0</sub>/U: 300/500 V

**Test voltage**  
2000 V

**Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor

**Current rating**  
According to IEC 60364-5-52 / VDE 0298-4  
EN 50565-1 / VDE 0298-565-1

**Temperature range**  
Flexible use: -25 °C to +60 °C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>H05RN-F</b>				
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	28.8	105
1600251	2 X 1.0	6.1 - 8.0	19.2	95
1600253	3 G 1.0	6.5 - 8.5	28.8	115

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Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs are not to scale and do not represent detailed images of the respective products.

### Similar products

- H07RN-F refer to page 91



# H07RN-F

Heavy standard construction

**Info**

- Medium mechanical stress
- Oil-resistant



**Benefits**

- For mechanically more demanding applications
- 1000 V AC at protected + static laying
- Arrangements made of single-core, rubber-sheathed cables H07RN-F can be used for short circuit-proof and short-to-ground-proof installations in accordance with IEC 60364-5-52/ HD 60364-5-52/ VDE 0100 Part 520

**Application range**

- Handheld and power supply devices according to EN 50565-2
- Medium, mechanical stress
- Industrial, agricultural use
- According to EN 50565-2: In dry, damp and wet rooms as well as for fixed installation e.g. on the plaster

**Product features**

- Flame-retardant according IEC 60332-1-2
- Oil-resistant according to EN 60811-404

**Norm references / Approvals**

- <HAR> H07RN-F cable type approval according to EN 50525-2-21

**Product Make-up**

- Bare copper wire according to HAR
- Core insulation: rubber compound, type EI 4
- Outer sheath: rubber compound, type EM2

**Technical data**

**Classification**  
ETIM 5.0 Class-ID: EC001578  
ETIM 5.0 Class-Description: Flexible cable

**Core identification code**  
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9  
From 6 cores: black with white numbers

**Conductor stranding**  
Fine wire according to VDE 0295  
Class 5/ IEC 60228 Class 5

**Minimum bending radius**  
4 to 8 x outer diameter (EN 50565-1)

**Nominal voltage**  
U<sub>0</sub>/U: 450/750 V

**Test voltage**  
2500 V

**Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor

**Current rating**  
According to IEC 60364-5-52/ VDE 0298-4  
EN 50565-1/ VDE 0298-565-1

**Temperature range**  
-25°C to +60°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>H07RN-F</b>				
1600096	1 X 1.5	5.7 - 7.1	14.4	59
1600099	1 X 2.5	6.3 - 7.9	24	72
1600097	1 X 4	7.2 - 9.0	38.4	99
1600098	1 X 6	7.9 - 9.8	57.6	130
1600194	1 X 10	9.5 - 11.9	96	230
1600195	1 X 16	10.8 - 13.4	153.6	320
1600196	1 X 25	12.7 - 15.8	240	450
1600193	1 X 35	14.3 - 17.9	336	605
1600197	1 X 50	16.5 - 20.6	480	825
1600189	1 X 70	18.6 - 23.3	672	1090
1600190	1 X 95	20.8 - 26.0	912	1405
1600198	1 X 120	22.8 - 28.6	1152	1745
1600191	1 X 150	25.2 - 31.4	1440	1887
1600175	1 X 185	27.6 - 34.4	1776	2274
1600177	1 X 240	30.6 - 38.3	2304	2955
30015435	1 X 300	33.5 - 41.9	2880	3479
1600117	3 G 1.0	8.3 - 10.7	28.8	130
1600199	2 X 1.5	8.5 - 11.0	28.8	135
1600103	3 G 1.5	9.2 - 11.9	43.2	165
16001233	4 G 1.5	10.2 - 13.1	57.6	200
16001043	5 G 1.5	11.2 - 14.4	72	240
1600151	7 G 1.5	14.7 - 18.7	100.8	385
1600148	12 G 1.5	17.6 - 22.4	172.8	516
1600259	19 G 1.5	20.7 - 26.3	273.6	800
1600166	24 G 1.5	24.3 - 30.7	345.6	882
1600263	25 G 1.5	25.1 - 25.9	360	920
1600187	2 X 2.5	10.2 - 13.1	48	195
1600118	3 G 2.5	10.9 - 14.0	72	235
16001053	4 G 2.5	12.1 - 15.5	96	290
16001293	5 G 2.5	13.3 - 17.0	120	294

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1600152	7 G 2.5	17.1 - 21.8	168	520
1600154	12 G 2.5	20.6 - 26.2	288	810
1600156	19 G 2.5	25.5 - 31.0	456	1200
1600157	24 G 2.5	28.8 - 36.4	576	1650
1600186	2 X 4	11.8 - 15.1	76.8	270
1600119	3 G 4	12.7 - 16.2	115.2	320
16001063	4 G 4	14.0 - 17.9	153.6	395
16001303	5 G 4	15.6 - 19.9	192	485
1600161	7 G 4	20.1 - 25.5	268.8	681
1600120	3 G 6	14.1 - 18.0	172.8	360
16001073	4 G 6	15.7 - 20.0	230.4	475
16001313	5 G 6	17.5 - 22.2	288	760
1600121	3 G 10	19.1 - 24.2	288	880
16001083	4 G 10	20.9 - 26.5	384	1060
16001093	5 G 10	22.9 - 29.1	480	1300
1600122	3 G 16	21.8 - 27.6	460.8	1090
16001103	4 G 16	23.8 - 30.1	614.4	1345
16001113	5 G 16	26.4 - 33.3	768	1680
16001123	4 G 25	28.9 - 36.6	960	1995
16001133	5 G 25	32.0 - 40.4	1200	2470
1600124	3 G 35	29.3 - 37.1	1008	1910
16001143	4 G 35	32.5 - 41.4	1344	2645
16001363	5 G 35	35.7 - 45.1	1680	2810
16001153	4 G 50	37.7 - 47.5	1920	3635
1600126	5 G 50	41.8 - 53.0	2400	4050
16001163	4 G 70	42.7 - 54.0	2688	4830
16001283	4 G 95	48.4 - 61.0	3648	6320
16001323	4 G 120	53.0 - 66.0	4608	6830
16000883	4 G 150	58.0 - 73.0	5760	8320
1600141	4 G 185	64.0 - 80.0	7104	9800
1600183	4 G 240	72.0 - 91.0	9216	12800

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Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
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**Similar products**

- H07RN-F, enhanced version refer to page 92

**Accessories**

- SKINTOP® CLICK System
- EASY STRIP stripping and cutting tool refer to page 1004

ÖLFLEX®  
UNITRONIC®  
ETHERLINE®  
HITRONIC®  
EPIC®  
SKINTOP®  
SILVYN®  
FLEXIMARK®  
ACCESSORIES  
APPENDIX