



H07V-K <HAR>

European <HAR> cable type certification



Info

- CPR: Article number choice under www.lappkabel.com/cpr
- <HAR>

Benefits

- Cables' <HAR> marking also stands for the international endorsement of national certification institutes' testing marks and certificates, e. g. <VDE><HAR>. The <HAR> marking is of special importance in case of goods traffic between European countries.

Application range

- Laying in tubes, exposed or buried in plaster, and in closed installation ducts
- For direct laying on racks, troughs and tubes only as potential equalisation conductor

Product features

- Flame-retardant according IEC 60332-1-2
- Spool: d1 = 18 mm; d2 = 200 mm; b = 85 mm

Norm references / Approvals

- <HAR> cable type certification acc. EN 50525-2-31
- No cable type certified core insulation colours according to EN 50525-1/ VDE 0285-525-1: transparent, green (single colour), yellow (single colour), all double colours (except of green-yellow and yellow-green)

Product Make-up

- Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
- Core insulation: Based on PVC

Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable

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

Minimum bending radius
According to EN 50565-1
OD ≤ 8 mm: 4 x OD* / 2 x OD**;
8 < OD ≤ 12 mm: 5 x OD* / 3 x OD**;
OD > 12 mm: 6 x OD* / 4 x OD**

Nominal voltage
U0/U: 450/750 V

Test voltage
2500 V

Current rating
VDE 0298 Part 4
EN 50565-1/ VDE 0298-565-1

Temperature range
Fixed installation: -40°C to +80°C
Moved: +5°C to +70°C

Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red
1.5	2.8 - 3.4		150	14.4	22	4520061S	4520051S			4520041S
2.5	3.4 - 4.1		100	24	37	4520062S	4520052S	4520112S		4520042S
1.5	2.8 - 3.4	100		14.4	22	4520061	4520051	4520111	4520091	4520041
2.5	3.4 - 4.1	100		24	37	4520062	4520052	4520112	4520092	4520042
4	3.9 - 4.8	100		38.4	45	4520063	4520053	4520113	4520093	4520043
6	4.4 - 5.3	100		57.6	71	4520064	4520054	4520114	4520094	4520044
10	5.7 - 6.8	100		96	120	4520065	4520055		4520095	4520045
16	6.7 - 8.1			153.6	187	4520066	4520056		4520096	4520046
25	8.4 - 10.2			240	290	4521061	4521051		4521091	4521041
35	9.7 - 11.7			336	399	4521062			4521092	4521042
50	11.5 - 13.9			480	559					4521043
70	13.2 - 16			672	776					4521044

Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	violet	blue	green	brown	black
1.5	2.8 - 3.4		150	14.4	22	4520071S	4520021S	4520121S	4520031S	4520011S
2.5	3.4 - 4.1		100	24	37		4520022S	4520122S	4520032S	4520012S
1.5	2.8 - 3.4	100		14.4	22	4520071	4520021	4520121	4520031	4520011
2.5	3.4 - 4.1	100		24	37	4520072	4520022	4520122	4520032	4520012
4	3.9 - 4.8	100		38.4	45	4520073	4520023	4520123	4520033	4520013
6	4.4 - 5.3	100		57.6	71	4520074	4520024	4520124	4520034	4520014
10	5.7 - 6.8	100		96	120	4520075	4520025	4520125	4520035	4520015
16	6.7 - 8.1			153.6	187		4520026	4520126	4520036	4520016
25	8.4 - 10.2			240	290		4521021		4521031	4521011
35	9.7 - 11.7			336	399		4521022		4521032	4521012
50	11.5 - 13.9			480	559		4521023		4521033	4521013
70	13.2 - 16			672	776		4521024		4521034	4521014
95	15.1 - 18.2			912	1031		4521025			4521015
120	16.7 - 20.2			1152	1285					4521016
150	18.6 - 22.5			1440	1563					4521017
185	20.6 - 24.9			1776	1915					4521018
240	23.5 - 28.4			2304	2550					4521019

Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	green/yellow	dark blue	ultra-marine blue
1.5	2.8 - 3.4		150	14.4	22	4520001S	4520141S	
2.5	3.4 - 4.1		100	24	37	4520002S	4520142S	
1.5	2.8 - 3.4	100		14.4	22	4520001	4520141	4520161
2.5	3.4 - 4.1	100		24	37	4520002	4520142	4520162
4	3.9 - 4.8	100		38.4	45	4520003	4520143	4520163
6	4.4 - 5.3	100		57.6	71	4520004	4520144	4520164
10	5.7 - 6.8	100		96	120	4520005	4520145	4520165
16	6.7 - 8.1			153.6	187	4520006	4520146	
25	8.4 - 10.2			240	290	4521001	4521141	
35	9.7 - 11.7			336	399	4521002	4521142	
50	11.5 - 13.9			480	559	4521003		
70	13.2 - 16			672	776	4521004		
95	15.1 - 18.2			912	1031	4521005		
120	16.7 - 20.2			1152	1285	4521006		
150	18.6 - 22.5			1440	1563	4521007		
185	20.6 - 24.9			1776	1915	4521008		
240	23.5 - 28.4			2304	2550	4521009		

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.

Packaging size: Coil ≤ 30 kg, otherwise drum

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

*for conventional use, **for careful bending; „OD“ = outer diameter

Similar products

- MULTI-STANDARD SC 2.1 refer to page 225
- MULTI-STANDARD SC 2.2 refer to page 228

Accessories

- DIN assorted boxes conductor end sleeves refer to page 967
- PEW 8.87 crimping pliers
- FLEXIMARK® Collar Snap-on refer to page 938
- Mobile crimp tool crimping pliers

H07V-K in big one-way cardboard box

Harmonised, flexible single conductor for protected, fixed installation



Info

- CPR: Article number choice under www.lappkabel.com/cpr
- Efficient
- <HAR>

Technical data

- Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000993
ETIM 5.0/6.0 Class-Description: Single core cable
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
According to EN 50565-1
4 x outer diameter (OD) for normal use;
2 x OD for cautions bending
- Nominal voltage**
U0/U: 450/750 V
- Test voltage**
2500 V AC
- Current rating**
VDE 0298 Part 4
EN 50565-1/ VDE 0298-565-1
- Temperature range**
Fixed installation: -40°C to +80°C
Moved: +5°C to +70°C

Benefits

- Higher cost-effectiveness due to optimum processing volumes
- Single cores are embossed so that an additional, subsequent marking by ink jet printing is readable
- The comparatively low weight of the cardboard boxes makes handling easy
- Time-saving assembly

Application range

- Ideal for assembling to achieve longer operating times
- Suitable for assembling cable harnesses and wiring during switch cabinet installation

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- <HAR> cable type certification acc. EN 50525-2-31
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Product Make-up

- Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
- Core insulation: Based on PVC

Conductor cross-section (mm ²)	Outer diameter [mm]	m/box	Copper index (kg/km)	Weight (kg/km)	grey	white	yellow	orange	red
1.5	2.8 - 3.4	1500	14.4	22	4520061K	4520051K	4520111K	4520091K	4520041K
1.5	2.8 - 3.4	4000	14.4	22					4520041E
2.5	3.4 - 4.1	900	24	37	4520062K	4520052K	4520112K	4520092K	4520042K
4	3.9 - 4.8	600	38.4	45	4520063K			4520093K	4520043K
6	4.4 - 5.3	400	57.6	71	4520064K		4520114K	4520094K	4520044K
6	4.4 - 5.3	1500	57.6	71					4520044E

Conductor cross-section (mm ²)	Outer diameter [mm]	m/box	Copper index (kg/km)	Weight (kg/km)	violet	blue	green	brown	black
1.5	2.8 - 3.4	1500	14.4	22	4520071K	4520021K	4520121K	4520031K	4520011K
1.5	2.8 - 3.4	4000	14.4	22		4520021E		4520031E	4520011E
2.5	3.4 - 4.1	900	24	37	4520072K	4520022K	4520122K	4520032K	4520012K
2.5	3.4 - 4.1	2500	24	37		4520022E			4520012E
4	3.9 - 4.8	600	38.4	45	4520073K	4520023K		4520033K	4520013K
4	3.9 - 4.8	2000	38.4	45					4520013E
6	4.4 - 5.3	400	57.6	71		4520024K		4520034K	4520014K
6	4.4 - 5.3	1500	57.6	71		4520024E			4520014E

Conductor cross-section (mm ²)	Outer diameter [mm]	m/box	Copper index (kg/km)	Weight (kg/km)	green/yellow	dark blue	blue/white	Dark blue/white
1.5	2.8 - 3.4	1500	14.4	22	4520001K	4520141K		
1.5	2.8 - 3.4	4000	14.4	22	4520001E	4520141E		
2.5	3.4 - 4.1	900	24	37	4520002K	4520142K		4520922K
2.5	3.4 - 4.1	2500	24	37	4520002E			
4	3.9 - 4.8	600	38.4	45	4520003K	4520143K	4520263K	4520923K
6	4.4 - 5.3	400	57.6	71	4520004K	4520144K	4520264K	4520924K
6	4.4 - 5.3	1500	57.6	71	4520004E			

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

Similar products

- H05V-K <HAR> refer to page 217
- H07V-K <HAR> refer to page 220
- H07V-U

Accessories

- KNIPEX Diagonal cutter refer to page 951
- DIN assorted boxes conductor end sleeves refer to page 967
- EASY STRIP stripping and cutting tool refer to page 962
- PEW 8.87 crimping pliers