


U.I. Lapp GmbH	PRODUCT INFORMATION	
	H07V-K <HAR>	05.11.2015

European <HAR> cable type certification

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.



Info

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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 Make-up

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

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 features

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

Remark

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

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

The outer diameters stated in the part number table are maximum values.

Product Management	Document: LAPP_PRO170EN.pdf	1 / 7
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U.I. Lapp GmbH	PRODUCT INFORMATION	
	H07V-K <HAR>	05.11.2015

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 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:	U ₀ /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

Product Management	Document: LAPP_PRO170EN.pdf	2 / 7
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H07V-K <HAR>

05.11.2015

Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4520001S	1,5	2.8 - 3.4	green/yellow		150	14.4	22
4520011S	1,5	2.8 - 3.4	black		150	14.4	22
4520021S	1,5	2.8 - 3.4	blue		150	14.4	22
4520141S	1,5	2.8 - 3.4	dark blue		150	14.4	22
4520031S	1,5	2.8 - 3.4	brown		150	14.4	22
4520041S	1,5	2.8 - 3.4	red		150	14.4	22
4520051S	1,5	2.8 - 3.4	white		150	14.4	22
4520061S	1,5	2.8 - 3.4	grey		150	14.4	22
4520002S	2,5	3.4 - 4.1	green/yellow		100	24.0	37
4520012S	2,5	3.4 - 4.1	black		100	24.0	37
4520022S	2,5	3.4 - 4.1	blue		100	24.0	37
4520142S	2,5	3.4 - 4.1	dark blue		100	24.0	37
4520032S	2,5	3.4 - 4.1	brown		100	24.0	37
4520042S	2,5	3.4 - 4.1	red		100	24.0	37
4520052S	2,5	3.4 - 4.1	white		100	24.0	37
4520062S	2,5	3.4 - 4.1	grey		100	24.0	37
4520001	1,5	2.8 - 3.4	green/yellow	100		14.4	22
4520011	1,5	2.8 - 3.4	black	100		14.4	22
4520021	1,5	2.8 - 3.4	blue	100		14.4	22
4520141	1,5	2.8 - 3.4	dark blue	100		14.4	22
4520031	1,5	2.8 - 3.4	brown	100		14.4	22
4520111	1,5	2.8 - 3.4	yellow	100		14.4	22
4520121	1,5	2.8 - 3.4	green	100		14.4	22
4520071	1,5	2.8 - 3.4	violet	100		14.4	22
4520041	1,5	2.8 - 3.4	red	100		14.4	22
4520051	1,5	2.8 - 3.4	white	100		14.4	22
4520061	1,5	2.8 - 3.4	grey	100		14.4	22
4520161	1,5	2.8 - 3.4	ultra-marine blue	100		14.4	22
4520002	2,5	3.4 - 4.1	green/yellow	100		24.0	37
4520012	2,5	3.4 - 4.1	black	100		24.0	37
4520022	2,5	3.4 - 4.1	blue	100		24.0	37
4520142	2,5	3.4 - 4.1	dark blue	100		24.0	37
4520032	2,5	3.4 - 4.1	brown	100		24.0	37
4520112	2,5	3.4 - 4.1	yellow	100		24.0	37

Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4520122	2,5	3.4 - 4.1	green	100		24.0	37
4520072	2,5	3.4 - 4.1	violet	100		24.0	37
4520042	2,5	3.4 - 4.1	red	100		24.0	37
4520052	2,5	3.4 - 4.1	white	100		24.0	37
4520062	2,5	3.4 - 4.1	grey	100		24.0	37
4520162	2,5	3.4 - 4.1	ultra-marine blue	100		24.0	37
4520003	4	3.9 - 4.8	green/yellow	100		38.4	45
4520013	4	3.9 - 4.8	black	100		38.4	45
4520023	4	3.9 - 4.8	blue	100		38.4	45
4520143	4	3.9 - 4.8	dark blue	100		38.4	45
4520033	4	3.9 - 4.8	brown	100		38.4	45
4520113	4	3.9 - 4.8	yellow	100		38.4	45
4520123	4	3.9 - 4.8	green	100		38.4	45
4520043	4	3.9 - 4.8	red	100		38.4	45
4520053	4	3.9 - 4.8	white	100		38.4	45
4520063	4	3.9 - 4.8	grey	100		38.4	45
4520163	4	3.9 - 4.8	ultra-marine blue	100		38.4	45
4520004	6	4.4 - 5.3	green/yellow	100		57.6	71
4520014	6	4.4 - 5.3	black	100		57.6	71
4520024	6	4.4 - 5.3	blue	100		57.6	71
4520144	6	4.4 - 5.3	dark blue	100		57.6	71
4520034	6	4.4 - 5.3	brown	100		57.6	71
4520114	6	4.4 - 5.3	yellow	100		57.6	71
4520124	6	4.4 - 5.3	green	100		57.6	71
4520074	6	4.4 - 5.3	violet	100		57.6	71
4520094	6	4.4 - 5.3	orange	100		57.6	71
4520044	6	4.4 - 5.3	red	100		57.6	71
4520054	6	4.4 - 5.3	white	100		57.6	71
4520064	6	4.4 - 5.3	grey	100		57.6	71
4520164	6	4.4 - 5.3	ultra-marine blue	100		57.6	71
4520005	10	5.7 - 6.8	green/yellow	100		96.0	120
4520015	10	5.7 - 6.8	black	100		96.0	120
4520025	10	5.7 - 6.8	blue	100		96.0	120
4520145	10	5.7 - 6.8	dark blue	100		96.0	120

H07V-K <HAR>

05.11.2015


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4520035	10	5.7 - 6.8	brown	100		96.0	120
4520095	10	5.7 - 6.8	orange	100		96.0	120
4520045	10	5.7 - 6.8	red	100		96.0	120
4520055	10	5.7 - 6.8	white	100		96.0	120
4520065	10	5.7 - 6.8	grey	100		96.0	120
4520006	16	6.7 - 8.1	green/yellow			153.6	187
4520016	16	6.7 - 8.1	black			153.6	187
4520026	16	6.7 - 8.1	blue			153.6	187
4520146	16	6.7 - 8.1	dark blue			153.6	187
4520036	16	6.7 - 8.1	brown			153.6	187
4520126	16	6.7 - 8.1	green			153.6	187
4520096	16	6.7 - 8.1	orange			153.6	187
4520046	16	6.7 - 8.1	red			153.6	187
4520056	16	6.7 - 8.1	white			153.6	187
4520066	16	6.7 - 8.1	grey			153.6	187
4521001	25	8.4 - 10.2	green/yellow			240.0	290
4521011	25	8.4 - 10.2	black			240.0	290
4521021	25	8.4 - 10.2	blue			240.0	290
4521031	25	8.4 - 10.2	brown			240.0	290
4521091	25	8.4 - 10.2	orange			240.0	290
4521041	25	8.4 - 10.2	red			240.0	290
4521002	35	9.7 - 11.7	green/yellow			336.0	399
4521012	35	9.7 - 11.7	black			336.0	399
4521022	35	9.7 - 11.7	blue			336.0	399
4521032	35	9.7 - 11.7	brown			336.0	399
4521042	35	9.7 - 11.7	red			336.0	399
4521092	35	9.7 - 11.7	orange			336.0	399
4521062	35	9.7 - 11.7	grey			336.0	399
4521003	50	11.5 - 13.9	green/yellow			480.0	559
4521013	50	11.5 - 13.9	black			480.0	559
4521023	50	11.5 - 13.9	blue			480.0	559
4521043	50	11.5 - 13.9	red			480.0	559
4521004	70	13.2 - 16	green/yellow			672.0	776
4521014	70	13.2 - 16	black			672.0	776

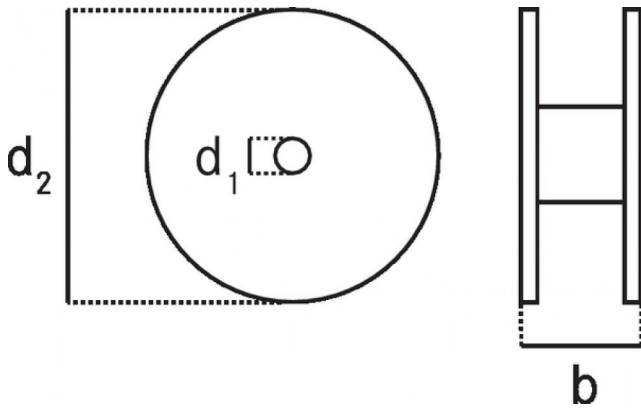


H07V-K <HAR>

05.11.2015

Part number	Conductor cross-section (mm²)	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4521024	70	13.2 - 16	blue			672.0	776
4521044	70	13.2 - 16	red			672.0	776
4521005	95	15.1 - 18.2	green/yellow			912.0	1031
4521015	95	15.1 - 18.2	black			912.0	1031
4521025	95	15.1 - 18.2	blue			912.0	1031
4521006	120	16.7 - 20.2	green/yellow			1152.0	1285
4521016	120	16.7 - 20.2	black			1152.0	1285
4521007	150	18.6 - 22.5	green/yellow			1440.0	1563
4521017	150	18.6 - 22.5	black			1440.0	1563
4521008	185	20.6 - 24.9	green/yellow			1776.0	1915
4521018	185	20.6 - 24.9	black			1776.0	1915
4521009	240	23.5 - 28.4	green/yellow			2304.0	2550
4521019	240	23.5 - 28.4	black			2304.0	2550
4520091	1,5	2.8 - 3.4	orange	100		14.4	22
4520092	2,5	3.4 - 4.1	orange	100		24.0	37
4520093	4	3.9 - 4.8	orange	100		38.4	45

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	H07V-K <HAR>	05.11.2015



Product Management	Document: LAPP_PRO170EN.pdf	7 / 7
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