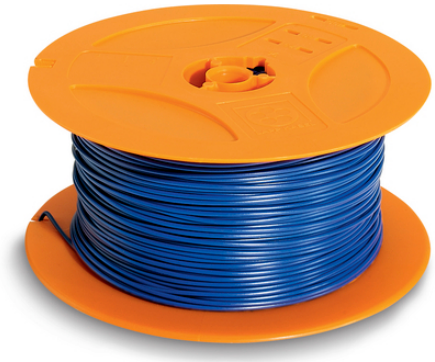
H07V-K <HAR>

European <HAR> cable type certification

H07V-K, HAR, power and control cable, PVC, 450/750V, wiring of devices and control cabinets, flame-retardant, class 5/ fine wire, fixed installation, ring/spool

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

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Classification ETIM 5:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single core cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000993 ETIM 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 +70 °C

Note

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
* Trade product, no Lapp product
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.
*for conventional use, **for careful bending; "OD" = outer diameter

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PRODUCT INFORMATION

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Article number	Core colour	Conductor cross-section (mm^2)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4520086	pink	16.0	6.7 - 8.1	-	-	-	187
4520001S	green/yellow	1.5	2.8 - 3.4	-	150	14.4	22
4520011S	black	1.5	2.8 - 3.4	-	150	14.4	22
4520021S	blue	1.5	2.8 - 3.4	-	150	14.4	22
4520141S	dark blue	1.5	2.8 - 3.4	-	150	14.4	22
4520031S	brown	1.5	2.8 - 3.4	-	150	14.4	22
4520121S	green	1.5	2.8 - 3.4	-	150	14.4	22
4520071S	violet	1.5	2.8 - 3.4	-	150	14.4	22
4520041S	red	1.5	2.8 - 3.4	-	150	14.4	22
4520051S	white	1.5	2.8 - 3.4	-	150	14.4	22
4520061S	grey	1.5	2.8 - 3.4	-	150	14.4	22
4520002S	green/yellow	2.5	3.4 - 4.1	-	100	24	37
4520012S	black	2.5	3.4 - 4.1	-	100	24	37
4520022S	blue	2.5	3.4 - 4.1	-	100	24	37
4520142S	dark blue	2.5	3.4 - 4.1	-	100	24	37
4520032S	brown	2.5	3.4 - 4.1	-	100	24	37
4520112S	yellow	2.5	3.4 - 4.1	-	100	24	37
4520122S	green	2.5	3.4 - 4.1	-	100	24	37
4520042S	red	2.5	3.4 - 4.1	-	100	24	37
4520052S	white	2.5	3.4 - 4.1	-	100	24	37
4520062S	grey	2.5	3.4 - 4.1	-	100	24	37
4520001	green/yellow	1.5	2.8 - 3.4	100	-	14.4	22
4520011	black	1.5	2.8 - 3.4	100	-	14.4	22
4520021	blue	1.5	2.8 - 3.4	100	-	14.4	22
4520141	dark blue	1.5	2.8 - 3.4	100	-	14.4	22
4520031	brown	1.5	2.8 - 3.4	100	-	14.4	22
4520111	yellow	1.5	2.8 - 3.4	100	-	14.4	22
4520121	green	1.5	2.8 - 3.4	100	-	14.4	22
4520071	violet	1.5	2.8 - 3.4	100	-	14.4	22
4520081	pink	1.5	2.8 - 3.4	100	-	14.4	22
4520041	red	1.5	2.8 - 3.4	100	-	14.4	22
4520051	white	1.5	2.8 - 3.4	100	-	14.4	22
4520061	grey	1.5	2.8 - 3.4	100	-	14.4	22
4520161	ultra-marine blue	1.5	2.8 - 3.4	100	-	14.4	22

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4520091	orange	1.5	2.8 - 3.4	100	-	14.4	22
4520921	Dark blue/white	1.5	2.8 - 3.4	100	-	14.4	-
4520101S	transparent	1.5	2.8 - 3.4	-	150	14.4	-
4520002	green/yellow	2.5	3.4 - 4.1	100	-	24	37
4520012	black	2.5	3.4 - 4.1	100	-	24	37
4520022	blue	2.5	3.4 - 4.1	100	-	24	37
4520142	dark blue	2.5	3.4 - 4.1	100	-	24	37
4520032	brown	2.5	3.4 - 4.1	100	-	24	37
4520112	yellow	2.5	3.4 - 4.1	100	-	24	37
4520122	green	2.5	3.4 - 4.1	100	-	24	37
4520072	violet	2.5	3.4 - 4.1	100	-	24	37
4520082	pink	2.5	3.4 - 4.1	100	-	24	37
4520042	red	2.5	3.4 - 4.1	100	-	24	37
4520052	white	2.5	3.4 - 4.1	100	-	24	37
4520062	grey	2.5	3.4 - 4.1	100	-	24	37
4520162	ultra-marine blue	2.5	3.4 - 4.1	100	-	24	37
4520092	orange	2.5	3.4 - 4.1	100	-	24	37
4520003	green/yellow	4	3.9 - 4.8	100	-	38.4	45
4520013	black	4	3.9 - 4.8	100	-	38.4	45
4520023	blue	4	3.9 - 4.8	100	-	38.4	45
4520143	dark blue	4	3.9 - 4.8	100	-	38.4	45
4520033	brown	4	3.9 - 4.8	100	-	38.4	45
4520113	yellow	4	3.9 - 4.8	100	-	38.4	45
4520123	green	4	3.9 - 4.8	100	-	38.4	45
4520073	violet	4	3.9 - 4.8	100	-	38.4	45
4520083	pink	4.0	3.9 - 4.8	100	-	38.4	45
4520043	red	4	3.9 - 4.8	100	-	38.4	45
4520053	white	4	3.9 - 4.8	100	-	38.4	45
4520063	grey	4	3.9 - 4.8	100	-	38.4	45
4520163	ultra-marine blue	4	3.9 - 4.8	100	-	38.4	45
4520093	orange	4	3.9 - 4.8	100	-	38.4	45
4520004	green/yellow	6	4.4 - 5.3	100	-	57.6	71
4520014	black	6	4.4 - 5.3	100	-	57.6	71
4520024	blue	6	4.4 - 5.3	100	-	57.6	71

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4520144	dark blue	6	4.4 - 5.3	100	-	57.6	71
4520034	brown	6	4.4 - 5.3	100	-	57.6	71
4520114	yellow	6	4.4 - 5.3	100	-	57.6	71
4520124	green	6	4.4 - 5.3	100	-	57.6	71
4520074	violet	6	4.4 - 5.3	100	-	57.6	71
4520094	orange	6	4.4 - 5.3	100	-	57.6	71
4520084	pink	6.0	4.4 - 5.3	-	-	57.6	71
4520044	red	6	4.4 - 5.3	100	-	57.6	71
4520054	white	6	4.4 - 5.3	100	-	57.6	71
4520064	grey	6	4.4 - 5.3	100	-	57.6	71
4520164	ultra-marine blue	6	4.4 - 5.3	100	-	57.6	71
4520005	green/yellow	10	5.7 - 6.8	100	-	96	120
4520015	black	10	5.7 - 6.8	100	-	96	120
4520025	blue	10	5.7 - 6.8	100	-	96	120
4520145	dark blue	10	5.7 - 6.8	100	-	96	120
4520035	brown	10	5.7 - 6.8	100	-	96	120
4520115	yellow	10	5.7 - 6.8	100	-	96	-
4520125	green	10	5.7 - 6.8	100	-	96	120
4520075	violet	10	5.7 - 6.8	100	-	96	120
4520095	orange	10	5.7 - 6.8	100	-	96	120
4520085	pink	10.0	5.7 - 6.8	100	-	-	120
4520045	red	10	5.7 - 6.8	100	-	96	120
4520055	white	10	5.7 - 6.8	100	-	96	120
4520065	grey	10	5.7 - 6.8	100	-	96	120
4520165	ultra-marine blue	10	5.7 - 6.8	100	-	96	120
4520006	green/yellow	16	6.7 - 8.1	-	-	153.6	187
4520016	black	16	6.7 - 8.1	-	-	153.6	187
4520026	blue	16	6.7 - 8.1	-	-	153.6	187
4520146	dark blue	16	6.7 - 8.1	-	-	153.6	187
4520036	brown	16	6.7 - 8.1	-	-	153.6	187
4520116	yellow	16	6.7 - 8.1	100	-	153.6	-
4520126	green	16	6.7 - 8.1	-	-	153.6	187
4520096	orange	16	6.7 - 8.1	-	-	153.6	187
4520046	red	16	6.7 - 8.1	-	-	153.6	187

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4520056	white	16	6.7 - 8.1	-	-	153.6	187
4520066	grey	16	6.7 - 8.1	-	-	153.6	187
4521001	green/yellow	25	8.4 - 10.2	-	-	240	290
4521011	black	25	8.4 - 10.2	-	-	240	290
4521021	blue	25	8.4 - 10.2	-	-	240	290
4521141	dark blue	25	8.4 - 10.2	-	-	240	290
4521031	brown	25	8.4 - 10.2	-	-	240	290
4521091	orange	25	8.4 - 10.2	-	-	240	290
4521041	red	25	8.4 - 10.2	-	-	240	290
4521051	white	25	8.4 - 10.2	-	-	240	290
4521061	grey	25	8.4 - 10.2	-	-	240	290
4521002	green/yellow	35	9.7 - 11.7	-	-	336	399
4521012	black	35	9.7 - 11.7	-	-	336	399
4521022	blue	35	9.7 - 11.7	-	-	336	399
4521142	dark blue	35	9.7 - 11.7	-	-	336	399
4521032	brown	35	9.7 - 11.7	-	-	336	399
4521042	red	35	9.7 - 11.7	-	-	336	399
4521092	orange	35	9.7 - 11.7	-	-	336	399
4521062	grey	35	9.7 - 11.7	-	-	336	399
4521003	green/yellow	50	11.5 - 13.9	-	-	480	559
4521013	black	50	11.5 - 13.9	-	-	480	559
4521023	blue	50	11.5 - 13.9	-	-	480	559
4521033	brown	50	11.5 - 13.9	-	-	480	559
4521093	orange	50	11.5 - 13.9	-	-	480	559
4521043	red	50	11.5 - 13.9	-	-	480	559
4521004	green/yellow	70	13.2 - 16	-	-	672	776
4521014	black	70	13.2 - 16	-	-	672	776
4521024	blue	70	13.2 - 16	-	-	672	776
4521034	brown	70	13.2 - 16	-	-	672	776
4521044	red	70	13.2 - 16	-	-	672	776
4521094	orange	70.0	13.2 - 16.0	-	-	672	776
4521005	green/yellow	95	15.1 - 18.2	-	-	912	1031
4521015	black	95	15.1 - 18.2	-	-	912	1031
4521025	blue	95	15.1 - 18.2	-	-	912	1031

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4521095	orange	95.0	15.1 - 18.2	-	-	912	1031
4521006	green/yellow	120	16.7 - 20.2	-	-	1152	1285
4521016	black	120	16.7 - 20.2	-	-	1152	1285
4521096	orange	120.0	16.7 - 20.2	-	-	1152	1285
4521007	green/yellow	150	18.6 - 22.5	-	-	1440	1563
4521017	black	150	18.6 - 22.5	-	-	1440	1563
4521008	green/yellow	185	20.6 - 24.9	-	-	1776	1915
4521018	black	185	20.6 - 24.9	-	-	1776	1915
4521009	green/yellow	240	23.5 - 28.4	-	-	2304	2550
4521019	black	240	23.5 - 28.4	-	-	2304	2550
4521099	orange	240.0	23.4 - 28.4	-	-	2304	2550
Maxi ring							
4520011X	black	1.5	2.8 - 3.4	350	-	14.4	22
4520021X	blue	1.5	2.8 - 3.4	350	-	14.4	22
4520141X	dark blue	1.5	2.8 - 3.4	350	-	14.4	22
4520001X	green/yellow	1.5	2.8 - 3.4	350	-	14.4	22
4520091X	orange	1.5	2.8 - 3.4	350	-	14.4	22
4520041X	red	1.5	2.8 - 3.4	350	-	14.4	22
4520012X	black	2.5	3.4 - 4.1	200	-	24	37
4520022X	blue	2.5	3.4 - 4.1	200	-	24	37
4520002X	green/yellow	2.5	3.4 - 4.1	200	-	24	37
4520013X	black	4.0	3.9 - 4.8	150	-	38.4	45
4520003X	green/yellow	4.0	3.9 - 4.8	150	-	38.4	45

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