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
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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

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Technical Data

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 +80°C Moved: +5°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
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

Article number	Conductor cross-section (mm²)	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	37
4520012S	2.5	3.4 - 4.1	black	-	100	24	37
4520022S	2.5	3.4 - 4.1	blue	-	100	24	37
4520142S	2.5	3.4 - 4.1	dark blue	-	100	24	37
4520032S	2.5	3.4 - 4.1	brown	-	100	24	37
4520042S	2.5	3.4 - 4.1	red	-	100	24	37
4520052S	2.5	3.4 - 4.1	white	-	100	24	37
4520062S	2.5	3.4 - 4.1	grey	-	100	24	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
4520091	1.5	2.8 - 3.4	orange	100	-	14.4	22
4520002	2.5	3.4 - 4.1	green/yellow	100	-	24	37
4520012	2.5	3.4 - 4.1	black	100	-	24	37
4520022	2.5	3.4 - 4.1	blue	100	-	24	37
4520142	2.5	3.4 - 4.1	dark blue	100	-	24	37
4520032	2.5	3.4 - 4.1	brown	100	-	24	37

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4520112	2.5	3.4 - 4.1	yellow	100	-	24	37
4520122	2.5	3.4 - 4.1	green	100	-	24	37
4520072	2.5	3.4 - 4.1	violet	100	-	24	37
4520042	2.5	3.4 - 4.1	red	100	-	24	37
4520052	2.5	3.4 - 4.1	white	100	-	24	37
4520062	2.5	3.4 - 4.1	grey	100	-	24	37
4520162	2.5	3.4 - 4.1	ultra-marine blue	100	-	24	37
4520092	2.5	3.4 - 4.1	orange	100	-	24	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
4520093	4	3.9 - 4.8	orange	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	120

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4520015	10	5.7 - 6.8	black	100	-	96	120
4520025	10	5.7 - 6.8	blue	100	-	96	120
4520145	10	5.7 - 6.8	dark blue	100	-	96	120
4520035	10	5.7 - 6.8	brown	100	-	96	120
4520095	10	5.7 - 6.8	orange	100	-	96	120
4520045	10	5.7 - 6.8	red	100	-	96	120
4520055	10	5.7 - 6.8	white	100	-	96	120
4520065	10	5.7 - 6.8	grey	100	-	96	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	290
4521011	25	8.4 - 10.2	black	-	-	240	290
4521021	25	8.4 - 10.2	blue	-	-	240	290
4521031	25	8.4 - 10.2	brown	-	-	240	290
4521091	25	8.4 - 10.2	orange	-	-	240	290
4521041	25	8.4 - 10.2	red	-	-	240	290
4521002	35	9.7 - 11.7	green/yellow	-	-	336	399
4521012	35	9.7 - 11.7	black	-	-	336	399
4521022	35	9.7 - 11.7	blue	-	-	336	399
4521032	35	9.7 - 11.7	brown	-	-	336	399
4521042	35	9.7 - 11.7	red	-	-	336	399
4521092	35	9.7 - 11.7	orange	-	-	336	399
4521062	35	9.7 - 11.7	grey	-	-	336	399
4521003	50	11.5 - 13.9	green/yellow	-	-	480	559
4521013	50	11.5 - 13.9	black	-	-	480	559
4521023	50	11.5 - 13.9	blue	-	-	480	559

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Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4521043	50	11.5 - 13.9	red	-	-	480	559
4521004	70	13.2 - 16	green/yellow	-	-	672	776
4521014	70	13.2 - 16	black	-	-	672	776
4521024	70	13.2 - 16	blue	-	-	672	776
4521044	70	13.2 - 16	red	-	-	672	776
4521005	95	15.1 - 18.2	green/yellow	-	-	912	1031
4521015	95	15.1 - 18.2	black	-	-	912	1031
4521025	95	15.1 - 18.2	blue	-	-	912	1031
4521006	120	16.7 - 20.2	green/yellow	-	-	1152	1285
4521016	120	16.7 - 20.2	black	-	-	1152	1285
4521007	150	18.6 - 22.5	green/yellow	-	-	1440	1563
4521017	150	18.6 - 22.5	black	-	-	1440	1563
4521008	185	20.6 - 24.9	green/yellow	-	-	1776	1915
4521018	185	20.6 - 24.9	black	-	-	1776	1915
4521009	240	23.5 - 28.4	green/yellow	-	-	2304	2550
4521019	240	23.5 - 28.4	black	-	-	2304	2550

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