

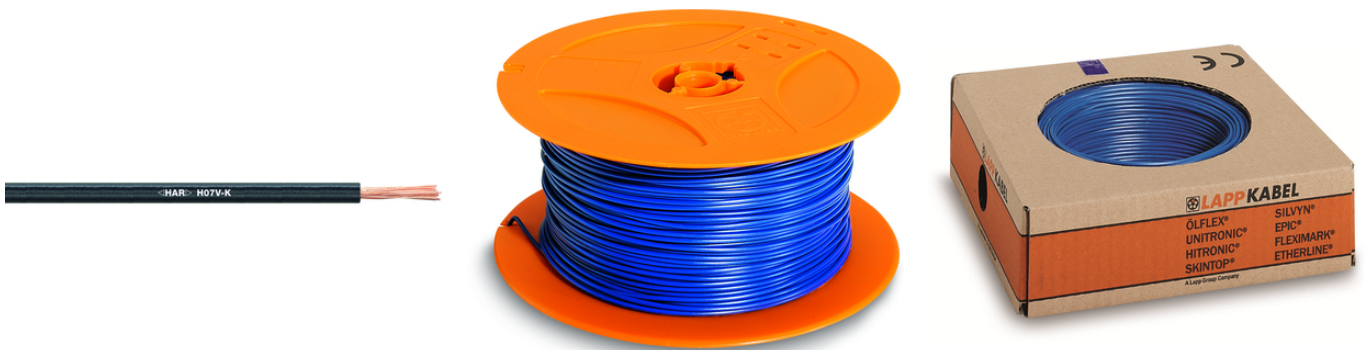
## H07V-K <HAR>

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

<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

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### 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 <sub>0</sub> /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 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.

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

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

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Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Core colour	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
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
4520112	2.5	3.4 - 4.1	yellow	100	24	37

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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
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	120
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

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Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Core colour	m/spool	Copper index (kg/km)	Weight (kg/km)
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	
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	

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Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Core colour	m/spool	Copper index (kg/km)	Weight (kg/km)
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	
4520091	1.5	2.8 - 3.4	orange	100	14.4	22
4520092	2.5	3.4 - 4.1	orange	100	24	37
4520093	4	3.9 - 4.8	orange	100	38.4	45

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