

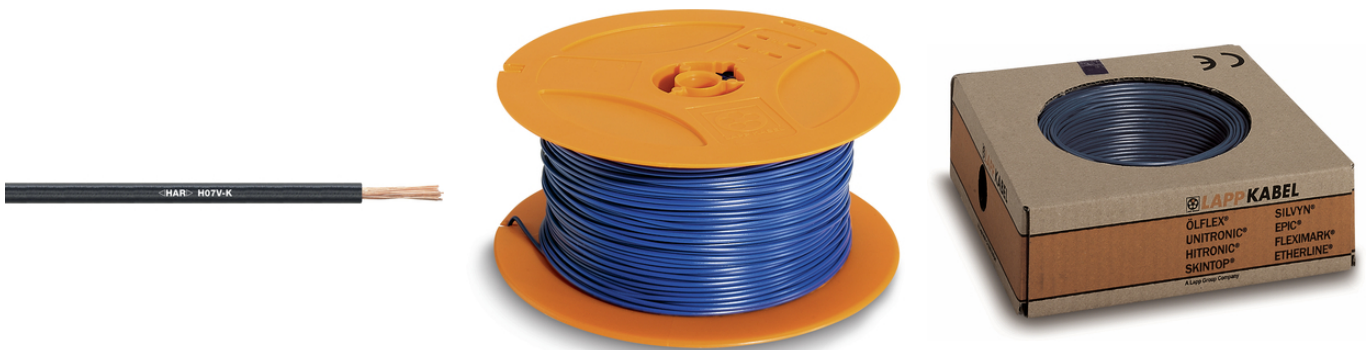
H07V-K <HAR>

European <HAR> design certification

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

Info

<HAR>



Benefits

The <HAR> cable marking also stands for the international endorsement of national certification institutes' testing marks and certificates, e.g. in the form of <VDE><HAR>. The <HAR> marking is of particular importance for goods transport between European countries.

Application range

Laying in tubes, on, in and under plaster as well as in closed installation ducts
For direct laying on trays, channels and troughs only as equipotential bonding conductor

Product features

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

Norm references / approvals

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

Design

Fine-wired copper conductor made of bare copper wires in line with braided conductor class 5 according to IEC 60228 / VDE 0295
PVC-based core insulation

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You can find the current technical data in the corresponding data sheet.

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Technical Data

Classification:	ETIM 5.0 Class-ID: EC000993 ETIM 5.0 Class-Description: Single-core cable
Conductor design:	Fine wire according to VDE 0295 class 5 / IEC 60228 class 5
Minimum bending radius:	According to EN 50565-1 OD ≤ 8mm: 4 x OD*/2 x OD**; 8 < OD ≤ 12 mm: x OD*/3 x OD**; OD > 12mm: 6 x OD*/4 x OD**
Nominal voltage:	U ₀ /U: 450/750 V
Test voltage:	2500 V
Current load capacity:	VDE 0298 part 4 EN 50565-1/ VDE 0298-565-1
Temperature range:	Fixed installation: -40°C to +80°C Flexing: +5°C to +70°C

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Packaging: Ring ≤ 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 only.

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

The outer diameters stated in the article table are maximum values.

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Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Core colour	m/spool	Copper index (kg/km)	Weight (kg/km)
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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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	
4521061	25	8.4 - 10.2	grey	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	

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