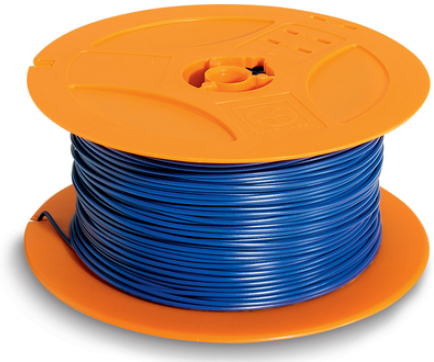
H05V-K <HAR>

European <HAR> cable type certification

H05V-K, HAR, power and control cable, PVC, 300/500V, 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
Internal wiring of devices
Protected installation in and on lighting equipments
Signal systems in and on plaster in tubes

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

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 4 x outer diameter (OD) for normal use; 2 x OD for cautions bending
Nominal voltage:	U0/U: 300/500 V
Test voltage:	2000 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.
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.

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PRODUCT INFORMATION

Article number	Core colour	Conductor cross-section (mm²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510001	green/yellow	0.5	2.1 - 2.5	100	-	4.8	9
4510011	black	0.5	2.1 - 2.5	100	-	4.8	9
4510021	blue	0.5	2.1 - 2.5	100	-	4.8	9
4510141	dark blue	0.5	2.1 - 2.5	100	-	4.8	9
4510031	brown	0.5	2.1 - 2.5	100	-	4.8	9
4510111	yellow	0.5	2.1 - 2.5	100	-	4.8	9
4510121	green	0.5	2.1 - 2.5	100	-	4.8	9
4510071	violet	0.5	2.1 - 2.5	100	-	4.8	9
4510081	pink	0.5	2.1 - 2.5	100	-	4.8	9
4510091	orange	0.5	2.1 - 2.5	100	-	4.8	9
4510041	red	0.5	2.1 - 2.5	100	-	4.8	9
4510051	white	0.5	2.1 - 2.5	100	-	4.8	9
4510061	grey	0.5	2.1 - 2.5	100	-	4.8	9
4510161	ultra-marine blue	0.5	2.1 - 2.5	100	-	4.8	9
4510921	Dark blue/white	0.5	2.1 - 2.5	100	-	4.8	9
4510002	green/yellow	0.75	2.2 - 2.7	100	-	7.2	12
4510012	black	0.75	2.2 - 2.7	100	-	7.2	12
4510022	blue	0.75	2.2 - 2.7	100	-	7.2	12
4510142	dark blue	0.75	2.2 - 2.7	100	-	7.2	12
4510032	brown	0.75	2.2 - 2.7	100	-	7.2	12
4510112	yellow	0.75	2.2 - 2.7	100	-	7.2	12
4510122	green	0.75	2.2 - 2.7	100	-	7.2	12
4510072	violet	0.75	2.2 - 2.7	100	-	7.2	12
4510082	pink	0.75	2.2 - 2.7	100	-	7.2	12
4510092	orange	0.75	2.2 - 2.7	100	-	7.2	12
4510042	red	0.75	2.2 - 2.7	100	-	7.2	12
4510052	white	0.75	2.2 - 2.7	100	-	7.2	12
4510062	grey	0.75	2.2 - 2.7	100	-	7.2	12
4510922	Dark blue/white	0.75	2.2 - 2.7	100	-	7.2	12
4510162	ultra-marine blue	0.75	2.2 - 2.7	100	-	7.2	12
4510003	green/yellow	1	2.4 - 2.8	100	-	9.6	15
4510013	black	1	2.4 - 2.8	100	-	9.6	15
4510023	blue	1	2.4 - 2.8	100	-	9.6	15
4510143	dark blue	1	2.4 - 2.8	100	-	9.6	15

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PRODUCT INFORMATION

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Article number	Core colour	Conductor cross-section (mm²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510033	brown	1	2.4 - 2.8	100	-	9.6	15
4510113	yellow	1	2.4 - 2.8	100	-	9.6	15
4510123	green	1	2.4 - 2.8	100	-	9.6	15
4510073	violet	1	2.4 - 2.8	100	-	9.6	15
4510083	pink	1	2.4 - 2.8	100	-	9.6	15
4510093	orange	1	2.4 - 2.8	100	-	9.6	15
4510043	red	1	2.4 - 2.8	100	-	9.6	15
4510053	white	1	2.4 - 2.8	100	-	9.6	15
4510063	grey	1	2.4 - 2.8	100	-	9.6	15
4510163	ultra-marine blue	1	2.4 - 2.8	100	-	9.6	15
4510923	Dark blue/white	1	2.4 - 2.8	100	-	9.6	15
4510001S	green/yellow	0.5	2.1 - 2.5	-	250	4.8	9
4510011S	black	0.5	2.1 - 2.5	-	250	4.8	9
4510021S	blue	0.5	2.1 - 2.5	-	250	4.8	9
4510141S	dark blue	0.5	2.1 - 2.5	-	250	4.8	9
4510031S	brown	0.5	2.1 - 2.5	-	250	4.8	9
4510111S	yellow	0.5	2.1 - 2.5	-	250	4.8	9
4510121S	green	0.5	2.1 - 2.5	-	250	4.8	9
4510071S	violet	0.5	2.1 - 2.5	-	250	4.8	9
4510081S	pink	0.5	2.1 - 2.5	-	250	4.8	9
4510091S	orange	0.5	2.1 - 2.5	-	250	4.8	9
4510101S	transparent	0.5	2.1 - 2.5	-	250	4.8	9
4510041S	red	0.5	2.1 - 2.5	-	250	4.8	9
4510051S	white	0.5	2.1 - 2.5	-	250	4.8	9
4510061S	grey	0.5	2.1 - 2.5	-	250	4.8	9
4510002S	green/yellow	0.75	2.2 - 2.7	-	250	7.2	12
4510012S	black	0.75	2.2 - 2.7	-	250	7.2	12
4510022S	blue	0.75	2.2 - 2.7	-	250	7.2	12
4510142S	dark blue	0.75	2.2 - 2.7	-	250	7.2	12
4510032S	brown	0.75	2.2 - 2.7	-	250	7.2	12
4510112S	yellow	0.75	2.2 - 2.7	-	250	7.2	12
4510122S	green	0.75	2.2 - 2.7	-	250	7.2	12
4510072S	violet	0.75	2.2 - 2.7	-	250	7.2	12
4510082S	pink	0.75	2.2 - 2.7	-	250	7.2	12

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Article number	Core colour	Conductor cross-section (mm²)	Outer diameter [mm]	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510092S	orange	0.75	2.2 - 2.7	-	250	7.2	12
4510102S	transparent	0.75	2.2 - 2.7	-	250	7.2	12
4510042S	red	0.75	2.2 - 2.7	-	250	7.2	12
4510052S	white	0.75	2.2 - 2.7	-	250	7.2	12
4510062S	grey	0.75	2.2 - 2.7	-	250	7.2	12
4510162S	ultra-marine blue	0.75	2.2 - 2.7	-	250	7.2	12
4510003S	green/yellow	1	2.4 - 2.8	-	250	9.6	15
4510013S	black	1	2.4 - 2.8	-	250	9.6	15
4510023S	blue	1	2.4 - 2.8	-	250	9.6	15
4510143S	dark blue	1	2.4 - 2.8	-	250	9.6	15
4510033S	brown	1	2.4 - 2.8	-	250	9.6	15
4510113S	yellow	1	2.4 - 2.8	-	250	9.6	15
4510123S	green	1	2.4 - 2.8	-	250	9.6	15
4510073S	violet	1	2.4 - 2.8	-	250	9.6	15
4510083S	pink	1	2.4 - 2.8	-	250	9.6	15
4510093S	orange	1	2.4 - 2.8	-	250	9.6	15
4510103S	transparent	1	2.4 - 2.8	-	250	9.6	15
4510043S	red	1	2.4 - 2.8	-	250	9.6	15
4510053S	white	1	2.4 - 2.8	-	250	9.6	15
4510063S	grey	1	2.4 - 2.8	-	250	9.6	15
4510163S	ultra-marine blue	1	2.4 - 2.8	-	250	9.6	15
Maxi ring							
4510011X	black	0.5	2.1 - 2.5	600	-	4.8	9
4510021X	blue	0.5	2.1 - 2.5	600	-	4.8	9
4510141X	dark blue	0.5	2.1 - 2.5	600	-	4.8	9
4510061X	grey	0.5	2.1 - 2.5	600	-	4.8	9
4510041X	red	0.5	2.1 - 2.5	600	-	4.8	9
4510051X	white	0.5	2.1 - 2.5	600	-	4.8	9
4510012X	black	0.75	2.2 - 2.7	500	-	9.6	13
4510022X	blue	0.75	2.2 - 2.7	500	-	7.2	13
4510142X	dark blue	0.75	2.2 - 2.7	500	-	7.2	13
4510002X	green/yellow	0.75	2.2 - 2.7	500	-	7.2	13
4510062X	grey	0.75	2.2 - 2.7	500	-	7.2	13
4510092X	orange	0.75	2.2 - 2.7	500	-	7.2	13

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4510042X	red	0.75	2.2 - 2.7	500	-	7.2	13
4510072X	violet	0.75	2.2 - 2.7	500	-	7.2	13
4510052X	white	0.75	2.2 - 2.7	500	-	7.2	13
4510013X	black	1.0	2.4 - 2.8	400	-	9.6	15
4510033X	brown	1.0	2.4 - 2.8	400	-	9.6	15
4510023X	blue	1.0	2.4 - 2.8	400	-	9.6	15
4510143X	dark blue	1.0	2.4 - 2.8	400	-	9.6	15
4510003X	green/yellow	1.0	2.4 - 2.8	400	-	9.6	15
4510063X	grey	1.0	2.4 - 2.8	400	-	9.6	15
4510093X	orange	1.0	2.4 - 2.8	400	-	9.6	15
4510043X	red	1.0	2.4 - 2.8	400	-	9.6	15
4510053X	white	1.0	2.4 - 2.8	400	-	9.6	15

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