


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>H05V-K &lt;HAR&gt;</b>	<b>05.11.2015</b>

European <HAR> cable type certification

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.



### Info

<HAR>

### Application range

Internal wiring of devices  
Protected installation in and on lighting equipments  
Signal systems in and on plaster in tubes

### 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

### Norm references / Approvals

<HAR> cable type certification acc. EN 50525-2-31

### Product features

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

### Remark

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 are not to scale and do not represent detailed images of the respective products.

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

### 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 4 x outer diameter (OD) for normal use 2 x OD for cautions bending
Nominal voltage:	U <sub>0</sub> /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

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Part number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510001	0,5	2.1 - 2.5	green/yellow	100		4.8	9
4510011	0,5	2.1 - 2.5	black	100		4.8	9
4510021	0,5	2.1 - 2.5	blue	100		4.8	9
4510141	0,5	2.1 - 2.5	dark blue	100		4.8	9
4510031	0,5	2.1 - 2.5	brown	100		4.8	9
4510111	0,5	2.1 - 2.5	yellow	100		4.8	9
4510121	0,5	2.1 - 2.5	green	100		4.8	9
4510071	0,5	2.1 - 2.5	violet	100		4.8	9
4510081	0,5	2.1 - 2.5	pink	100		4.8	9
4510091	0,5	2.1 - 2.5	orange	100		4.8	9
4510041	0,5	2.1 - 2.5	red	100		4.8	9
4510051	0,5	2.1 - 2.5	white	100		4.8	9
4510061	0,5	2.1 - 2.5	grey	100		4.8	9
4510161	0,5	2.1 - 2.5	ultra-marine blue	100		4.8	9
4510921	0,5	2.1 - 2.5	Dark blue/white	100		4.8	9
4510002	0,75	2.2 - 2.7	green/yellow	100		7.2	12
4510012	0,75	2.2 - 2.7	black	100		7.2	12
4510022	0,75	2.2 - 2.7	blue	100		7.2	12
4510142	0,75	2.2 - 2.7	dark blue	100		7.2	12
4510032	0,75	2.2 - 2.7	brown	100		7.2	12
4510112	0,75	2.2 - 2.7	yellow	100		7.2	12
4510122	0,75	2.2 - 2.7	green	100		7.2	12
4510072	0,75	2.2 - 2.7	violet	100		7.2	12
4510082	0,75	2.2 - 2.7	pink	100		7.2	12
4510092	0,75	2.2 - 2.7	orange	100		7.2	12
4510042	0,75	2.2 - 2.7	red	100		7.2	12
4510052	0,75	2.2 - 2.7	white	100		7.2	12
4510062	0,75	2.2 - 2.7	grey	100		7.2	12
4510922	0,75	2.2 - 2.7	Dark blue/white	100		7.2	12
4510162	0,75	2.2 - 2.7	ultra-marine blue	100		7.2	12
4510003	1	2.4 - 2.8	green/yellow	100		9.6	15
4510013	1	2.4 - 2.8	black	100		9.6	15
4510023	1	2.4 - 2.8	blue	100		9.6	15
4510143	1	2.4 - 2.8	dark blue	100		9.6	15

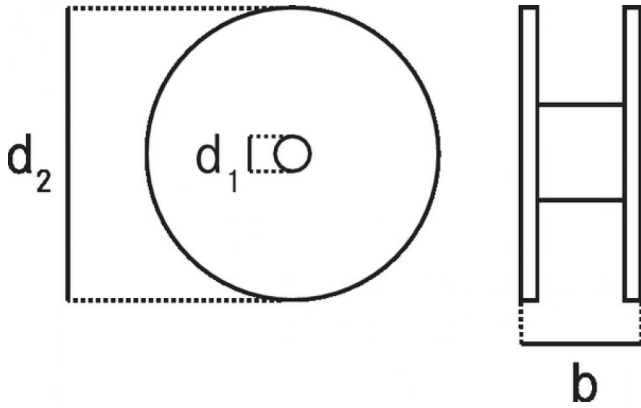
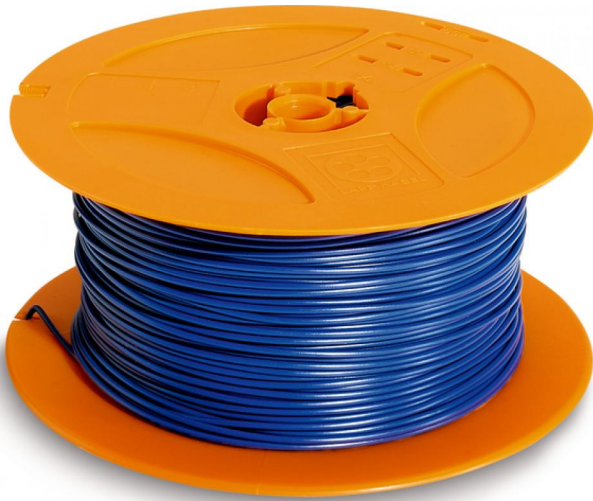
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Part number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510033	1	2.4 - 2.8	brown	100		9.6	15
4510113	1	2.4 - 2.8	yellow	100		9.6	15
4510123	1	2.4 - 2.8	green	100		9.6	15
4510073	1	2.4 - 2.8	violet	100		9.6	15
4510083	1	2.4 - 2.8	pink	100		9.6	15
4510093	1	2.4 - 2.8	orange	100		9.6	15
4510043	1	2.4 - 2.8	red	100		9.6	15
4510053	1	2.4 - 2.8	white	100		9.6	15
4510063	1	2.4 - 2.8	grey	100		9.6	15
4510163	1	2.4 - 2.8	ultra-marine blue	100		9.6	15
4510923	1	2.4 - 2.8	Dark blue/white	100		9.6	15
4510001S	0,5	2.1 - 2.5	green/yellow		250	4.8	9
4510011S	0,5	2.1 - 2.5	black		250	4.8	9
4510021S	0,5	2.1 - 2.5	blue		250	4.8	9
4510141S	0,5	2.1 - 2.5	dark blue		250	4.8	9
4510031S	0,5	2.1 - 2.5	brown		250	4.8	9
4510111S	0,5	2.1 - 2.5	yellow		250	4.8	9
4510121S	0,5	2.1 - 2.5	green		250	4.8	9
4510071S	0,5	2.1 - 2.5	violet		250	4.8	9
4510091S	0,5	2.1 - 2.5	orange		250	4.8	9
4510041S	0,5	2.1 - 2.5	red		250	4.8	9
4510051S	0,5	2.1 - 2.5	white		250	4.8	9
4510061S	0,5	2.1 - 2.5	grey		250	4.8	9
4510002S	0,75	2.2 - 2.7	green/yellow		250	7.2	12
4510012S	0,75	2.2 - 2.7	black		250	7.2	12
4510022S	0,75	2.2 - 2.7	blue		250	7.2	12
4510142S	0,75	2.2 - 2.7	dark blue		250	7.2	12
4510032S	0,75	2.2 - 2.7	brown		250	7.2	12
4510112S	0,75	2.2 - 2.7	yellow		250	7.2	12
4510122S	0,75	2.2 - 2.7	green		250	7.2	12
4510072S	0,75	2.2 - 2.7	violet		250	7.2	12
4510082S	0,75	2.2 - 2.7	pink		250	7.2	12
4510092S	0,75	2.2 - 2.7	orange		250	7.2	12
4510102S	0,75	2.2 - 2.7	transparent		250	7.2	12

Part number	Conductor cross-section (mm²)	Outer diameter (mm)	Core colour	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)
4510042S	0,75	2.2 - 2.7	red		250	7.2	12
4510052S	0,75	2.2 - 2.7	white		250	7.2	12
4510062S	0,75	2.2 - 2.7	grey		250	7.2	12
4510162S	0,75	2.2 - 2.7	ultra-marine blue		250	7.2	12
4510003S	1	2.4 - 2.8	green/yellow		250	9.6	15
4510013S	1	2.4 - 2.8	black		250	9.6	15
4510023S	1	2.4 - 2.8	blue		250	9.6	15
4510143S	1	2.4 - 2.8	dark blue		250	9.6	15
4510033S	1	2.4 - 2.8	brown		250	9.6	15
4510123S	1	2.4 - 2.8	green		250	9.6	15
4510073S	1	2.4 - 2.8	violet		250	9.6	15
4510093S	1	2.4 - 2.8	orange		250	9.6	15
4510103S	1	2.4 - 2.8	transparent		250	9.6	15
4510043S	1	2.4 - 2.8	red		250	9.6	15
4510053S	1	2.4 - 2.8	white		250	9.6	15
4510063S	1	2.4 - 2.8	grey		250	9.6	15
4510163S	1	2.4 - 2.8	ultra-marine blue		250	9.6	15

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