MULTI-STANDARD SC 2.1

USA: UL-listed (MTW), Canada: CSA (TEW), Europe: <HAR> H07V-K (depending on cross-section), tin-plated wires

Lapp Kabel® MULTI-STANDARD SC 2.1, power and control cable, PVC single core cable for field wiring, UL MTW VW-1, UL AWM style 1015 600 V, CSA TEW FT1, HAR H07V-K

Info
The all-rounder for many markets







Oil-resistant

Benefits
For use in the most important global markets
Reduction in technical documentation
Easier storage; increases the cost-effectiveness of the production process
Works with "conductor end sleeves XL, insulated"

Application range
Factory wiring
Field wiring
Internal wiring of devices
Control cabinet wiring

Product features
Flame-retardant according to IEC 60332-1-2
Flame-retardant according to UL VW1/CSA FT1
Oil-resistant

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Norm references / approvals

Multi-standard cables are designed in metric nominal cross sections in mm² **or** AWG/kcmil nominal sizes. The leading cross-section is specified in the table below, while the corresponding cross-section of the other system can be found in the appendix table T16 of this catalogue. For this corresponding secondary size, the conductor cross-section is generally larger.
Design certification: <HAR> H07V-K according to EN 50525-2-31, UL AWM style 1015 (by UL according to UL standard UL 758, UL AWM file number of U.I. Lapp GmbH: E63634), (UL) MTW (by UL according to UL standard UL 1063, (UL) MTW file number of U.I. Lapp GmbH: E198296), CSA TEW (by CSA according to CSA standard CSA C22.2 no. 127, CSA class 5835-01)

Design

Fine-wire strand made of tin-plated copper wires
Special PVC-based core insulation

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:	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:	HAR / IEC: U_0/U: 450/750 V; UL (AWM): U: 600 V; UL (MTW): U: 600 V; CSA (TEW): U: 600 V
Temperature range:	Fixed installation: HAR / IEC: -40 °C to +70 °C UL (AWM): -40 °C to +105 °C; UL (MTW): -40 °C to +90 °C; CSA (TEW): -40 °C to +105 °C

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they 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.
Non-harmonised nominal cross-sections: 0.5 mm²; 0.75 mm²; 1 mm²; 16 mm²
*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 (mm²)	Outer diameter [mm]	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4160100	0.5	2.7	green/yellow	100	4.8	11
4160111	0.5	2.7	green	100	4.8	11
4160103	0.5	2.7	brown	100	4.8	11
4160101	0.5	2.7	black	100	4.8	11
4160101K	0.5	2.7	black	3000	4.8	11
4160106	0.5	2.7	grey	100	4.8	11
4160106K	0.5	2.7	grey	3000	4.8	11
4160102	0.5	2.7	blue	100	4.8	11
4160102K	0.5	2.7	blue	3000	4.8	11
4160114	0.5	2.7	dark blue	100	4.8	11
4160114K	0.5	2.7	dark blue	3000	4.8	11
4160109	0.5	2.7	orange	100	4.8	11
4160109K	0.5	2.7	orange	3000	4.8	11
4160107	0.5	2.7	violet	100	4.8	11
4160110	0.5	2.7	yellow	100	4.8	11
4160105	0.5	2.7	white	100	4.8	11
4160104	0.5	2.7	red	100	4.8	11
4160104K	0.5	2.7	red	3000	4.8	11
4160126	0.5	2.7	blue/white	100	4.8	11
4160144K	0.5	2.7	white/blue	3000	4.8	11
4160200	0.75	2.9	green/yellow	100	7.2	14
4160203	0.75	2.9	brown	100	7.2	14
4160203K	0.75	2.9	brown	2500	7.2	14
4160201	0.75	2.9	black	100	7.2	14
4160206	0.75	2.9	grey	100	7.2	14
4160202	0.75	2.9	blue	100	7.2	14
4160202K	0.75	2.9	blue	2500	7.2	14
4160214	0.75	2.9	dark blue	100	7.2	14
4160214K	0.75	2.9	dark blue	2500	7.2	14
4160209	0.75	2.9	orange	100	7.2	14
4160209K	0.75	2.9	orange	2500	7.2	14
4160207	0.75	2.9	violet	100	7.2	14
4160210	0.75	2.9	yellow	100	7.2	14
4160205	0.75	2.9	white	100	7.2	14

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Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4160204	0.75	2.9	red	100	7.2	14
4160226	0.75	2.9	blue/white	100	7.2	14
4160226K	0.75	2.9	blue/white	2500	7.2	14
4160244	0.75	2.9	white/blue	100	7.2	14
4160244K	0.75	2.9	white/blue	2500	7.2	14
4160300	1	3.1	green/yellow	100	9.6	16
4160300K	1	3.1	green/yellow	2000	9.6	16
4160311	1	3.1	green	100	9.6	16
4160303	1	3.1	brown	100	9.6	16
4160303K	1	3.1	brown	2000	9.6	16
4160301	1	3.1	black	100	9.6	16
4160301K	1	3.1	black	2000	9.6	16
4160306	1	3.1	grey	100	9.6	16
4160302	1	3.1	blue	100	9.6	16
4160302K	1	3.1	blue	2000	9.6	16
4160314	1	3.1	dark blue	100	9.6	16
4160314K	1	3.1	dark blue	2000	9.6	16
4160309	1	3.1	orange	100	9.6	16
4160309K	1	3.1	orange	2000	9.6	16
4160307	1	3.1	violet	100	9.6	16
4160310	1	3.1	yellow	100	9.6	16
4160305	1	3.1	white	100	9.6	16
4160305K	1	3.1	white	2000	9.6	16
4160304	1	3.1	red	100	9.6	16
4160304K	1	3.1	red	2000	9.6	16
4160308	1	3.1	pink	100	9.6	16
4160326	1	3.1	blue/white	100	9.6	16
4160326K	1	3.1	blue/white	2000	9.6	16
4160344	1	3.1	white/blue	100	9.6	16
4160344K	1	3.1	white/blue	2000	9.6	16
4160400	1.5	3.4	green/yellow	100	14.4	22
4160400K	1.5	3.4	green/yellow	1500	14.4	22
4160411	1.5	3.4	green	100	14.4	22
4160403	1.5	3.4	brown	100	14.4	22

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4160403K	1.5	3.4	brown	1500	14.4	22
4160401	1.5	3.4	black	100	14.4	22
4160401K	1.5	3.4	black	1500	14.4	22
4160406	1.5	3.4	grey	100	14.4	22
4160406K	1.5	3.4	grey	1500	14.4	22
4160402	1.5	3.4	blue	100	14.4	22
4160402K	1.5	3.4	blue	1500	14.4	22
4160414	1.5	3.4	dark blue	100	14.4	22
4160414K	1.5	3.4	dark blue	1500	14.4	22
4160409	1.5	3.4	orange	100	14.4	22
4160409K	1.5	3.4	orange	1500	14.4	22
4160407	1.5	3.4	violet	100	14.4	22
4160410	1.5	3.4	yellow	100	14.4	22
4160405	1.5	3.4	white	100	14.4	22
4160405K	1.5	3.4	white	1500	14.4	22
4160404	1.5	3.4	red	100	14.4	22
4160404K	1.5	3.4	red	1500	14.4	22
4160408	1.5	3.4	pink	100	14.4	22
4160426	1.5	3.4	blue/white	100	14.4	22
4160426K	1.5	3.4	blue/white	1500	14.4	22
4160444	1.5	3.4	white/blue	100	14.4	22
4160500	2.5	4	green/yellow	100	24	37
4160500K	2.5	4	green/yellow	900	24	37
4160511	2.5	4	green	100	24	37
4160503	2.5	4	brown	100	24	37
4160501	2.5	4	black	100	24	37
4160501K	2.5	4	black	900	24	37
4160506	2.5	4	grey	100	24	37
4160506K	2.5	4	grey	900	24	37
4160502	2.5	4	blue	100	24	37
4160502K	2.5	4	blue	900	24	37
4160514	2.5	4	dark blue	100	24	37
4160514K	2.5	4	dark blue	900	24	37
4160509	2.5	4	orange	100	24	37

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4160509K	2.5	4	orange	900	24	37
4160507	2.5	4	violet	100	24	37
4160510	2.5	4	yellow	100	24	37
4160505	2.5	4	white	100	24	37
4160505K	2.5	4	white	900	24	37
4160504	2.5	4	red	100	24	37
4160504K	2.5	4	red	900	24	37
4160526	2.5	4	blue/white	100	24	37
4160544	2.5	4	white/blue	100	24	37
4160544K	2.5	4	white/blue	900	24	37
4160600	4	4.6	green/yellow	100	38.4	49
4160600K	4	4.6	green/yellow	600	38.4	49
4160611	4	4.6	green	100	38.4	49
4160603	4	4.6	brown	100	38.4	49
4160601	4	4.6	black	100	38.4	49
4160601K	4	4.6	black	600	38.4	49
4160606	4	4.6	grey	100	38.4	49
4160602	4	4.6	blue	100	38.4	49
4160614	4	4.6	dark blue	100	38.4	49
4160609	4	4.6	orange	100	38.4	49
4160609K	4	4.6	orange	600	38.4	49
4160610	4	4.6	yellow	100	38.4	49
4160610K	4	4.6	yellow	600	38.4	49
4160605	4	4.6	white	100	38.4	49
4160604	4	4.6	red	100	38.4	49
4160626	4	4.6	blue/white	100	38.4	49
4160644	4	4.6	white/blue	100	38.4	49
4160700	6	5.1	green/yellow	100	57.6	67
4160700K	6	5.1	green/yellow	400	57.6	67
4160711	6	5.1	green	100	57.6	67
4160703	6	5.1	brown	100	57.6	67
4160701	6	5.1	black	100	57.6	67
4160701K	6	5.1	black	400	57.6	67
4160706	6	5.1	grey	100	57.6	67

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4160702	6	5.1	blue	100	57.6	67
4160702K	6	5.1	blue	400	57.6	67
4160714	6	5.1	dark blue	100	57.6	67
4160714K	6	5.1	dark blue	400	57.6	67
4160709	6	5.1	orange	100	57.6	67
4160709K	6	5.1	orange	400	57.6	67
4160710	6	5.1	yellow	100	57.6	67
4160705	6	5.1	white	100	57.6	67
4160704	6	5.1	red	100	57.6	67
4160704K	6	5.1	red	400	57.6	67
4160726	6	5.1	blue/white	100	57.6	67
4160744	6	5.1	white/blue	100	57.6	67
4160800	10	6.8	green/yellow	100	96	120
4160811	10	6.8	green	100	96	120
4160803	10	6.8	brown	100	96	120
4160801	10	6.8	black	100	96	120
4160806	10	6.8	grey	100	96	120
4160802	10	6.8	blue	100	96	120
4160814	10	6.8	dark blue	100	96	120
4160809	10	6.8	orange	100	96	120
4160810	10	6.8	yellow	100	96	120
4160805	10	6.8	white	100	96	120
4160804	10	6.8	red	100	96	120
4160826	10	6.8	blue/white	100	96	120
4160844	10	6.8	white/blue	100	96	120
4160900	16	9	green/yellow	100	153.6	185
4160911	16	9	green	100	153.6	185
4160903	16	9	brown	100	153.6	185
4160901	16	9	black	100	153.6	185
4160906	16	9	grey	100	153.6	185
4160902	16	9	blue	100	153.6	185
4160914	16	9	dark blue	100	153.6	185
4160909	16	9	orange	100	153.6	185
4160910	16	9	yellow	100	153.6	185

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4160905	16	9	white	100	153.6	185
4160904	16	9	red	100	153.6	185
4161000	25	10.2	green/yellow	100	240	260
4161011	25	10.2	green	100	240	260
4161003	25	10.2	brown	100	240	260
4161001	25	10.2	black	100	240	260
4161006	25	10.2	grey	100	240	260
4161002	25	10.2	blue	100	240	260
4161009	25	10.2	orange	100	240	260
4161010	25	10.2	yellow	100	240	260
4161004	25	10.2	red	100	240	260
4161100	35	11.7	green/yellow	336	360	
4161111	35	11.7	green	336	360	
4161101	35	11.7	black	336	360	
4161102	35	11.7	blue	336	360	
4161104	35	11.7	red	336	360	
4161200	50	13.9	green/yellow	480	535	
4161211	50	13.9	green	480	535	
4161201	50	13.9	black	480	535	
4161202	50	13.9	blue	480	535	
4161300	70	16	green/yellow	672	735	
4161301	70	16	black	672	735	
4161400	95	18.2	green/yellow	912	930	
4161401	95	18.2	black	912	930	
4161402	95	18.2	blue	912	930	
4161500	120	19.8	green/yellow	1152	1160	
4161501	120	19.8	black	1152	1160	
4161502	120	19.8	blue	1152	1160	

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