

MULTI-STANDARD SC 2.2

UL-listed (MTW), CSA (TEW), <HAR> H07V2-K: max. +90 °C, UL (AWM): Umax = 1 kV, tinned-copper strands

Lapp Kabel® MULTI-STANDARD SC 2.2, power and control cable, PVC single core, field wiring, UL MTW VW-1, UL AWM 10269 1000 V, CSA TEW FT1, HAR H07V2-K +90 °C

Info

Higher maximum conductor temperature - H07V2-K: +90 °C according to EN 50525-2-31

Higher voltage range according to UL



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

Frequency converter power supply

Internal wiring of devices and in control cabinets

Protected installation in and on lighting equipments

Product features

Flame-retardant according IEC 60332-1-2

Flame-retardant according to UL VW1/CSA FT1

Oil-resistant

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Norm references / Approvals

Multi-standard cables have conductor strands with nominal sizes in mm² or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.

Cable type certifications: <HAR> H07V2-K acc. EN 50525-2-31, UL AWM style 10269 (by UL acc. UL standard UL 758, U.I. Lapp GmbH's UL AWM file number: E63634), (UL) MTW (by UL acc. UL standard UL 1063, U.I. Lapp GmbH's (UL) MTW file number: E198296), CSA TEW (by CSA acc. CSA standard CSA C22.2 No. 127, CSA class 5835-01)

Product Make-up

Fine-wire strand made of tinned-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 stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	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:	HAR / IEC: U ₀ /U: 450/750 V; UL (AWM): U: 1000 V; UL (MTW): U: 600 V; CSA (TEW): U: 600 V
Temperature range:	Fixed installation: HAR/IEC: -40 °C to +90 °C; UL (AWM): -40 °C to +105 °C; UL (MTW): -40 °C to +90 °C; CSA (TEW): -40 °C to +105 °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.

Non-harmonised, nominal cross-sections: 0.5 mm², 0.75 mm², 1 mm², 16 mm², 50 mm², 70 mm², 95 mm², 120 mm²

*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 ²)	Outer diameter (mm)	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4150103	0.5	2.7	brown	100	4.8	10
4150101	0.5	2.7	black	100	4.8	10
4150102	0.5	2.7	blue	100	4.8	10
4150114	0.5	2.7	dark blue	100	4.8	10
4150105	0.5	2.7	white	100	4.8	10
4150104	0.5	2.7	red	100	4.8	10
4150201	0.75	2.9	black	100	7.2	13
4150202	0.75	2.9	blue	100	7.2	13
4150214	0.75	2.9	dark blue	100	7.2	13
4150205	0.75	2.9	white	100	7.2	13
4150204	0.75	2.9	red	100	7.2	13
4150300	1	3.1	green/yellow	100	9.6	16
4150303	1	3.1	brown	100	9.6	16
4150301	1	3.1	black	100	9.6	16
4150301K	1	3.1	black	2000	9.6	16
4150302	1	3.1	blue	100	9.6	16
4150314	1	2.9	dark blue	9.6	16	
4150309	1	3.1	orange	100	9.6	16
4150305	1	3.1	white	100	9.6	16
4150304	1	3.1	red	100	9.6	16
4150400	1.5	3.4	green/yellow	100	14.4	22
4150403	1.5	3.4	brown	100	14.4	22
4150401	1.5	3.4	black	100	14.4	22
4150406	1.5	3.4	grey	100	14.4	22
4150402	1.5	3.4	blue	100	14.4	22
4150414	1.5	3.4	dark blue	100	14.4	22
4150409	1.5	3.4	orange	100	14.4	22
4150410	1.5	3.4	yellow	100	14.4	22
4150405	1.5	3.4	white	100	14.4	22
4150404	1.5	3.4	red	100	14.4	22
4150500	2.5	4	green/yellow	100	24	37
4150503	2.5	4	brown	100	24	37
4150501	2.5	4	black	100	24	37
4150501K	2.5	4	black	900	24	37

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Article number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4150506	2.5	4	grey	100	24	37
4150502	2.5	4	blue	100	24	37
4150509	2.5	4	orange	100	24	37
4150504	2.5	4	red	100	24	37
4150600	4	4.6	green/yellow	100	38.4	49
4150603	4	4.6	brown	100	38.4	49
4150601	4	4.6	black	100	38.4	49
4150601K	4	4.6	black	600	38.4	49
4150602	4	4.6	blue	100	38.4	49
4150614	4	4.6	dark blue	100	38.4	49
4150610	4	4.6	yellow	100	38.4	49
4150605	4	4.6	white	100	38.4	49
4150604	4	4.6	red	100	38.4	49
4150700	6	5.1	green/yellow	100	57.6	71
4150701	6	5.1	black	100	57.6	71
4150706	6	5.1	grey	100	57.6	71
4150702	6	5.1	blue	100	57.6	71
4150704	6	5.1	red	100	57.6	71
4150800	10	6.8	green/yellow	100	96	120
4150801	10	6.8	black	100	96	120
4150802	10	6.8	blue	100	96	120
4150900	16	9	green/yellow	100	153.6	185
4150901	16	9	black	100	153.6	185
4151000	25	10.2	green/yellow	100	240	260
4151001	25	10.2	black	100	240	260
4151100	35	11.7	green/yellow	336	360	
4151101	35	11.7	black	336	360	
4151201	50	13.9	black	480	535	
4151301	70	16	black	672	735	
4151401	95	18.2	black	912	930	

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