

ÖLFLEX® WIRE MS 2.2

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

Formerly: MULTI-STANDARD SC 2.2

ÖLFLEX® WIRE MS 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

Formerly: MULTI-STANDARD SC 2.2

CPR: Article number choice under www.lappkabel.com/cpr



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 and in control cabinets

Protected installation in and on lighting equipments

Green insulated single cores ≥ 4 AWG are usable as EGC/ Equipment Grounding Conductor on cable tray according to NFPA 70 (NEC)

Product features

Flame-retardant according IEC 60332-1-2

Flame-retardant according to UL VW1/CSA FT1

Oil-resistant

Last Update (30.05.2024)

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Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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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:	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:	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: U0/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): up to +105 °C; UL (MTW): up to +90 °C; CSA (TEW): up 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 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.

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	Core colour	Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)
4150103	brown	0.5	2.7	100	-	4.8	10
4150101	black	0.5	2.7	100	-	4.8	10
4150102	blue	0.5	2.7	100	-	4.8	10
4150114	dark blue	0.5	2.7	100	-	4.8	10
4150114K	dark blue	0.5	2.7	-	3000	4.8	10
4150105	white	0.5	2.7	100	-	4.8	10
4150104	red	0.5	2.7	100	-	4.8	10
4150144K	white/blue	0.5	2.7	-	3000	4.8	10
4150203	brown	0.75	2.9	100	-	7.2	13
4150201	black	0.75	2.9	100	-	7.2	13
4150201K	black	0.75	2.9	-	2500	7.2	13
4150206	grey	0.75	2.9	100	-	7.2	13
4150202	blue	0.75	2.9	100	-	7.2	13
4150214	dark blue	0.75	2.9	100	-	7.2	13
4150205	white	0.75	2.9	100	-	7.2	13
4150204	red	0.75	2.9	100	-	7.2	13
4150204K	red	0.75	2.9	-	2500	7.2	13
4150300	green/yellow	1	3.1	100	-	9.6	16
4150303	brown	1	3.1	100	-	9.6	16
4150301	black	1	3.1	100	-	9.6	16
4150301K	black	1	3.1	-	2000	9.6	16
4150302	blue	1	3.1	100	-	9.6	16
4150302K	blue	1	3.1	-	2000	9.6	16
4150314	dark blue	1	3.1	100	-	9.6	16
4150309	orange	1	3.1	100	-	9.6	16
4150305	white	1	3.1	100	-	9.6	16
4150304	red	1	3.1	100	-	9.6	16
4150304K	red	1	3.1	-	2000	9.6	16
4150326	blue/white	1	3.1	100	-	9.6	16
4150344	white/blue	1	3.1	100	-	9.6	16
4150400	green/yellow	1.5	3.4	100	-	14.4	22
4150400K	green/yellow	1.5	3.4	-	1500	14.4	22
4150403	brown	1.5	3.4	100	-	14.4	22
4150401	black	1.5	3.4	100	-	14.4	22

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4150401K	black	1.5	3.4	-	1500	14.4	22
4150406	grey	1.5	3.4	100	-	14.4	22
4150402	blue	1.5	3.4	100	-	14.4	22
4150402K	blue	1.5	3.4	-	1500	14.4	22
4150414	dark blue	1.5	3.4	100	-	14.4	22
4150409	orange	1.5	3.4	100	-	14.4	22
4150410	yellow	1.5	3.4	100	-	14.4	22
4150405	white	1.5	3.4	100	-	14.4	22
4150404	red	1.5	3.4	100	-	14.4	22
4150426	blue/white	1.5	3.4	100	-	14.4	22
4150444	white/blue	1.5	3.4	100	-	14.4	22
4150500	green/yellow	2.5	4	100	-	24	37
4150500K	green/yellow	2.5	4	-	900	24	37
4150503	brown	2.5	4	100	-	24	37
4150501	black	2.5	4	100	-	24	37
4150501K	black	2.5	4	-	900	24	37
4150506	grey	2.5	4	100	-	24	37
4150502	blue	2.5	4	100	-	24	37
4150502K	blue	2.5	4	-	900	24	37
4150514	dark blue	2.5	4	100	-	24	37
4150509	orange	2.5	4	100	-	24	37
4150505	white	2.5	4	100	-	24	37
4150504	red	2.5	4	100	-	24	37
4150600	green/yellow	4	4.6	100	-	38.4	49
4150603	brown	4	4.6	100	-	38.4	49
4150603K	brown	4	4.6	-	600	38.4	49
4150601	black	4	4.6	100	-	38.4	49
4150601K	black	4	4.6	-	600	38.4	49
4150606	grey	4	4.6	100	-	38.4	49
4150602	blue	4	4.6	100	-	38.4	49
4150602K	blue	4	4.6	-	600	38.4	49
4150614	dark blue	4	4.6	100	-	38.4	49
4150610	yellow	4	4.6	100	-	38.4	49
4150605	white	4	4.6	100	-	38.4	49

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Article number	Core colour	Conductor cross-section (mm ²)	Outer diameter [mm]	m/ring	m/box	Copper index (kg/km)	Weight (kg/km)
4150604	red	4	4.6	100	-	38.4	49
4150604K	red	4	4.6	-	600	38.4	49
4150700	green/yellow	6	5.1	100	-	57.6	71
4150701	black	6	5.1	100	-	57.6	71
4150706	grey	6	5.1	100	-	57.6	71
4150702	blue	6	5.1	100	-	57.6	71
4150705	white	6	5.1	100	-	57.6	71
4150704	red	6	5.1	100	-	57.6	71
4150800	green/yellow	10	6.8	100	-	96	120
4150801	black	10	6.8	100	-	96	120
4150802	blue	10	6.8	100	-	96	120
4150804	red	10	6.8	100	-	96	120
4150900	green/yellow	16	9	100	-	153.6	185
4150901	black	16	9	100	-	153.6	185
4150902	blue	16	9	100	-	153.6	185
4150904	red	16	9	100	-	153.6	185
4151000	green/yellow	25	10.2	100	-	240	260
4151001	black	25	10.2	100	-	240	260
4151100	green/yellow	35	11.7	-	-	336	360
4151101	black	35	11.7	-	-	336	360
4151201	black	50	13.9	-	-	480	535
4151301	black	70	16	-	-	672	735
4151401	black	95	18.2	-	-	912	930
4151501	black	120.0	19.8	-	-	1152	1160