

## 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

CPR: Article number choice under [www.lappkabel.com/cpr](http://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  $\geq 4$  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

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## MULTI-STANDARD SC 2.2

### Norm references / Approvals

Multi-standard cables have conductor strands with nominal sizes in mm<sup>2</sup> 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<br>ETIM 5.0 Class-Description: Single core cable   |
| Classification ETIM 6:  | ETIM 6.0 Class-ID: EC000993<br>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**;<br>8 < OD ≤ 12 mm: 5 x OD*/3 x OD**;<br>OD > 12 mm: 6 x OD*/4 x OD**                                    |
| Nominal voltage:        | HAR / IEC: U0/U: 450/750 V;<br>UL (AWM): U: 1000 V;<br>UL (MTW): U: 600 V;<br>CSA (TEW): U: 600 V                                    |
| Temperature range:      | Fixed installation:<br>HAR/IEC: -40 °C to +90 °C;<br>UL (AWM): up to +105 °C;<br>UL (MTW): up to +90 °C;<br>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 mm<sup>2</sup>, 0.75 mm<sup>2</sup>, 1 mm<sup>2</sup>, 16 mm<sup>2</sup>, 50 mm<sup>2</sup>, 70 mm<sup>2</sup>, 95 mm<sup>2</sup>, 120 mm<sup>2</sup>

\*for conventional use, \*\*for careful bending; "OD" = outer diameter

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

## MULTI-STANDARD SC 2.2

| Article number | Core colour  | Conductor cross-section (mm <sup>2</sup> ) | 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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| Article number | Core colour  | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | m/ring | m/box | Copper index (kg/km) | Weight (kg/km) |
|----------------|--------------|--|---------------------|--------|-------|----------------------|----------------|
| 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 <sup>2</sup> ) | 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           |

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