

**UNITRONIC® ROBUST**

Halogen-free data transmission cable with colour code acc. to DIN 47100 - resistant to a wide range of chemical media

LAPP KABEL STUTTGART UNITRONIC® ROBUST

**Info**

- Excellent weather resistance
- Good chemical resistance

Benefits

- Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for indoor and outdoor applications
- Resistant to contact with plant, animal or synthetic-based organic oils, greases, waxes and the related emulsions
- Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning agents
- Well-suited to frequent steam cleaning

Application range

- Machine tool building, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works
- Food and beverage industry, especially for production and processing equipment of milk and meat products
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- For indoor and outdoor use

Product features

- Halogen-free materials
- Good chemical resistance to ester-based hydraulic fluids
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to EN 50267-2-3 (degree of acidity)
- Low smoke density according to IEC 61034-2

Norm references / Approvals

- Based on VDE 0812
- Certified resistance to disinfection and cleaning solutions used in food and beverage industry

Product Make-up

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- Core insulation made of special halogen-free compound
- Outer sheath made of special TPE
- Outer sheath colour: black

Technical data**Classification**

ETIM 5.0 Class-ID: EC000830
ETIM 5.0 Class-Description: Data cable

**Core identification code**

DIN 47100 without colour repetition, refer to Appendix T9

**Mutual capacitance**

C/C approx. 60 nF/km

**Peak operating voltage**

(not for power applications)
at 0.14 mm²: 350 V
at ≥ 0.25 mm²: 500 V

**Specific insulation resistance**

> 20 GΩm x cm

**Inductivity**

approx. 0.65 mH/km

**Conductor stranding**

Stranded, fine-wire
0.34 mm²: 7-wire

**Minimum bending radius**

Occasional flexing: 10 x outer diameter
Fixed installation: 4 x outer diameter

**Test voltage**

At 0.14 mm²: 1200 V

**Temperature range**

Occasional flexing: -40°C to +90°C
Fixed installation: -50°C to +90°C

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® ROBUST | | | | |
| 1032000 | 2 x 0.14 | 3.2 | 2.8 | 15 |
| 1032001 | 3 x 0.14 | 3.4 | 4.2 | 17 |
| 1032002 | 4 x 0.14 | 3.6 | 5.6 | 21 |
| 1032003 | 5 x 0.14 | 3.9 | 7 | 25 |
| 1032004 | 7 x 0.14 | 4.2 | 9.8 | 30 |
| 1032005 | 8 x 0.14 | 4.9 | 11.2 | 40 |
| 1032006 | 10 x 0.14 | 5.2 | 14 | 41 |
| 1032007 | 12 x 0.14 | 5.6 | 16.8 | 50 |
| 1032009 | 16 x 0.14 | 6.1 | 22.4 | 63 |
| 1032011 | 25 x 0.14 | 7.7 | 35 | 95 |
| 1032012 | 2 x 0.25 | 3.8 | 4.8 | 21 |
| 1032013 | 3 x 0.25 | 4 | 7.2 | 25 |
| 1032014 | 4 x 0.25 | 4.3 | 9.6 | 31 |
| 1032015 | 5 x 0.25 | 4.7 | 12 | 38 |
| 1032016 | 7 x 0.25 | 5.1 | 16.8 | 47 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 1032017 | 8 x 0.25 | 6.2 | 19.2 | 66 |
| 1032018 | 10 x 0.25 | 6.8 | 24 | 71 |
| 1032019 | 12 x 0.25 | 7 | 28.8 | 81 |
| 1032021 | 16 x 0.25 | 7.7 | 38.4 | 104 |
| 1032024 | 25 x 0.25 | 9.5 | 60 | 151 |
| 1032025 | 2 x 0.34 | 4.2 | 6.5 | 29 |
| 1032026 | 3 x 0.34 | 4.4 | 9.8 | 32 |
| 1032027 | 4 x 0.34 | 4.8 | 13.1 | 41 |
| 1032028 | 5 x 0.34 | 5.5 | 16.3 | 52 |
| 1032030 | 7 x 0.34 | 5.9 | 22.9 | 65 |
| 1032031 | 8 x 0.34 | 7.1 | 26.1 | 90 |
| 1032032 | 10 x 0.34 | 7.6 | 32.6 | 93 |
| 1032033 | 12 x 0.34 | 7.8 | 39.2 | 107 |
| 1032035 | 16 x 0.34 | 8.7 | 52.2 | 138 |
| 1032038 | 15 x 0.34 | 11.2 | 81.6 | 213 |

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.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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

Accessories

- SKINTOP® ST-HF-M refer to page 718
- KT 11 cable shears
- DATA STRIP stripping tool refer to page 1001