



ECOLAB®

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 organic oils and the related emulsions as well as a multitude of plant, animal or synthetic-based greases and waxes
- Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning and cooling agents
- Well-suited to 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

- Good chemical resistance to ester-based hydraulic fluids
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- 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 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 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 mm ² : 350 V at ≥ 0.25 mm ² : 500 V |
| | Specific insulation resistance > 20 GOhm x cm |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Stranded, fine-wire 0.34 mm ² : 7-wire |
| | Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter |
| | Test voltage At 0.14 mm ² : 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 | 25 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 and graphics are not to scale and do not represent detailed images of the respective products.

Accessories

- SKINTOP® ST-HF-M refer to page 693
- KT 11 cable shears
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC



UNITRONIC® ROBUST C

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

Info

- Excellent weather resistance
- Good chemical resistance

LAPP KABEL STUTTGART UNITRONIC® ROBUST C



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 organic oils and the related emulsions as well as a multitude of plant, animal or synthetic-based greases and waxes
- Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning and cooling agents
- Well-suited to 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

- Good chemical resistance to ester-based hydraulic fluids
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- 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
- Tinned-copper braiding
- Outer sheath made of special TPE
- Outer sheath colour: Black

Technical data

| | |
|--|---|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 60 nF/km C/S approx. 100 nF/km |
| | Peak operating voltage (not for power applications) at 0.14 mm ² : 350 V at ≥ 0.25 mm ² : 500 V |
| | Specific insulation resistance > 20 GOhm x cm |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Stranded, fine-wire 0.34 mm ² : 7-wire |
| | Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter |
| | Test voltage At 0.14 mm ² : 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 C | | | | |
| 1032050 | 2 x 0.14 | 3.9 | 9.3 | 25 |
| 1032051 | 3 x 0.14 | 4.1 | 10.8 | 28 |
| 1032052 | 4 x 0.14 | 4.3 | 13.5 | 34 |
| 1032053 | 5 x 0.14 | 4.6 | 15 | 38 |
| 1032055 | 7 x 0.14 | 4.9 | 19 | 46 |
| 1032056 | 8 x 0.14 | 5.8 | 22 | 60 |
| 1032057 | 10 x 0.14 | 6.1 | 25.8 | 63 |
| 1032058 | 12 x 0.14 | 6.3 | 28.9 | 70 |
| 1032061 | 25 x 0.14 | 8.4 | 56.1 | 128 |
| 1032062 | 2 x 0.25 | 4.5 | 12.7 | 33 |
| 1032063 | 3 x 0.25 | 4.7 | 16.3 | 40 |
| 1032064 | 4 x 0.25 | 5 | 18.8 | 46 |
| 1032065 | 5 x 0.25 | 5.6 | 22.5 | 57 |
| 1032067 | 7 x 0.25 | 6 | 28.6 | 69 |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 1032068 | 8 x 0.25 | 7.1 | 33.6 | 92 |
| 1032069 | 10 x 0.25 | 7.5 | 42.8 | 101 |
| 1032070 | 12 x 0.25 | 7.7 | 47.7 | 111 |
| 1032073 | 25 x 0.25 | 10.6 | 86.5 | 202 |
| 1032074 | 2 x 0.34 | 4.9 | 15.7 | 44 |
| 1032075 | 3 x 0.34 | 5.1 | 20.4 | 54 |
| 1032076 | 4 x 0.34 | 5.7 | 23.6 | 66 |
| 1032077 | 5 x 0.34 | 6.2 | 28.2 | 78 |
| 1032079 | 7 x 0.34 | 6.8 | 36 | 95 |
| 1032080 | 8 x 0.34 | 7.8 | 45.3 | 127 |
| 1032081 | 10 x 0.34 | 8.3 | 53.9 | 137 |
| 1032082 | 12 x 0.34 | 8.5 | 60.7 | 152 |
| 1032084 | 16 x 0.34 | 9.4 | 77.9 | 191 |
| 1032086 | 25 x 0.34 | 11.9 | 115.7 | 288 |

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

Accessories

- SKINTOP® ST-HF-M refer to page 693
- KT 11 cable shears
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC



UNITRONIC® ROBUST C (TP)

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



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 organic oils and the related emulsions as well as a multitude of plant, animal or synthetic-based greases and waxes
- Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning and cooling agents
- Well-suited to 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

- Good chemical resistance to ester-based hydraulic fluids
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- 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
- TP structure
- Tinned-copper braiding
- Outer sheath made of special TPE
Outer sheath colour: black (RAL 9005)

Technical data

| | |
|--|---|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 60 nF/km C/S approx. 100 nF/km |
| | Peak operating voltage (not for power applications) at 0.14 mm ² : 350 V at ≥ 0.25 mm ² : 500 V |
| | Specific insulation resistance > 20 GOhm x cm |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Stranded, fine-wire 0.34 mm ² : 7-wire |
| | Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter |
| | Test voltage At 0.14 mm ² : 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 C (TP) | | | | |
| 1032100 | 2 x 2 x 0.14 | 5.3 | 16.1 | 31 |
| 1032101 | 3 x 2 x 0.14 | 5.8 | 19 | 38 |
| 1032102 | 4 x 2 x 0.14 | 6.2 | 23.1 | 46 |
| 1032103 | 5 x 2 x 0.14 | 6.4 | 27.2 | 54 |
| 1032104 | 6 x 2 x 0.14 | 7.1 | 31.3 | 63 |
| 1032105 | 8 x 2 x 0.14 | 8.2 | 43.4 | 90 |
| 1032106 | 10 x 2 x 0.14 | 8.7 | 50.9 | 93 |
| 1032107 | 12 x 2 x 0.14 | 8.9 | 56.6 | 102 |
| 1032108 | 2 x 2 x 0.25 | 6.3 | 22.7 | 43 |
| 1032109 | 3 x 2 x 0.25 | 7.1 | 28.9 | 56 |
| 1032110 | 4 x 2 x 0.25 | 7.6 | 38.3 | 72 |
| 1032111 | 5 x 2 x 0.25 | 7.9 | 45.1 | 85 |
| 1032112 | 6 x 2 x 0.25 | 8.5 | 48.7 | 96 |
| 1032113 | 8 x 2 x 0.25 | 10.3 | 64.3 | 135 |
| 1032114 | 2 x 2 x 0.34 | 7.1 | 27.6 | 56 |
| 1032115 | 3 x 2 x 0.34 | 7.8 | 38.8 | 74 |
| 1032116 | 4 x 2 x 0.34 | 8.4 | 47.5 | 90 |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 1032117 | 5 x 2 x 0.34 | 8.8 | 58.2 | 110 |
| 1032118 | 1 x 2 x 0.5 | 5.6 | 20.1 | 37 |
| 1032119 | 2 x 2 x 0.5 | 7.9 | 40.3 | 72 |
| 1032120 | 3 x 2 x 0.5 | 8.7 | 51.7 | 91 |
| 1032121 | 4 x 2 x 0.5 | 9.4 | 64.1 | 112 |
| 1032122 | 5 x 2 x 0.5 | 10.3 | 76.6 | 141 |
| 1032123 | 6 x 2 x 0.5 | 11.1 | 91.7 | 170 |
| 1032124 | 8 x 2 x 0.5 | 13.1 | 123.2 | 238 |
| 1032125 | 10 x 2 x 0.5 | 14.5 | 146.4 | 247 |
| 1032126 | 2 x 2 x 0.75 | 8.5 | 48.4 | 84 |
| 1032127 | 3 x 2 x 0.75 | 9.4 | 68.9 | 114 |
| 1032128 | 4 x 2 x 0.75 | 10.7 | 86.2 | 149 |
| 1032129 | 6 x 2 x 0.75 | 12.1 | 131.9 | 225 |
| 1032130 | 8 x 2 x 0.75 | 14.7 | 168.2 | 315 |
| 1032131 | 2 x 2 x 1.0 | 9 | 64.1 | 98 |
| 1032132 | 3 x 2 x 1.0 | 10.4 | 83.5 | 135 |
| 1032133 | 4 x 2 x 1.0 | 11.3 | 105.7 | 168 |

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

Accessories

- SKINTOP® ST-HF-M refer to page 693
- KT 11 cable shears
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC



UNITRONIC® LiHH

Halogen-free data transmission cable with colour code acc. to DIN 47100



Info

- For use within public buildings and industrial plants
- Further dimensions/colours on request

Benefits

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases
- Low capacitance due to polyolefin-based insulation
- Small outer diameters despite a high number of cores

Application range

- Suitable for areas with a high density of people as well as high-value property that must be protected in the event of a fire
- For use within public buildings, transport systems and industrial plants
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- 7-wire stranded conductor can be used for Maxi TERMI-POINT® wiring (for this product the 0,34mm² version only)
- Dry or damp rooms

Product features

- Flame-retardant according IEC 60332-1-2
- Low smoke zero halogen (LSZH)
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- Low smoke density according to IEC 61034-2

Norm references / Approvals

- Based on VDE 0812

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 halogen-free compound
- Outer sheath colour: pebble grey (RAL 7032)

Technical data

| | |
|--|--|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000104 ETIM 5.0/6.0 Class-Description: Control cable |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 |
| | Mutual capacitance Approx. 80 nF/km |
| | Peak operating voltage (not for power applications) 250 V |
| | 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: 6 x outer diameter |
| | Test voltage 1200 V |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -30°C to +80°C |

| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|------------------------|---------------------------------------|---------------------|----------------------|----------------|
| UNITRONIC® LiHH | | | | |
| 0037104 | 6 x 0.14 | 4.4 | 8.1 | 25 |
| 0037120 | 2 x 0.25 | 4 | 4.8 | 22 |
| 0037121 | 3 x 0.25 | 4.2 | 7.2 | 25 |
| 0037122 | 4 x 0.25 | 4.5 | 9.6 | 28 |
| 0037124 | 6 x 0.25 | 5.3 | 14.4 | 39 |
| 0037125 | 7 x 0.25 | 5.3 | 16.8 | 42 |
| 0037126 | 8 x 0.25 | 6.4 | 19.2 | 50 |
| 0037128 | 12 x 0.25 | 7.2 | 28.8 | 67 |
| 0037140 | 2 x 0.34 | 4.4 | 6.5 | 28 |
| 0037141 | 3 x 0.34 | 4.6 | 9.8 | 30 |
| 0037142 | 4 x 0.34 | 5 | 13.1 | 40 |

| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------|---------------------|----------------------|----------------|
| 0037143 | 5 x 0.34 | 5.7 | 16.3 | 44 |
| 0037147 | 12 x 0.34 | 8 | 39.2 | 97 |
| 0037150 | 2 x 0.5 | 4.9 | 9.6 | 31 |
| 0037151 | 3 x 0.5 | 5.2 | 14.4 | 37 |
| 0037152 | 4 x 0.5 | 5.8 | 19.2 | 45 |
| 0037153 | 5 x 0.5 | 6.3 | 24 | 58 |
| 0037154 | 7 x 0.5 | 7.1 | 33.6 | 72 |
| 0037160 | 2 x 0.75 | 5.3 | 14.4 | 41 |
| 0037162 | 4 x 0.75 | 6.3 | 28.8 | 60 |
| 0037165 | 12 x 0.75 | 10.4 | 86.4 | 165 |
| 0037171 | 3 x 1.0 | 6.1 | 28.8 | 57 |
| 0037172 | 4 x 1.0 | 6.6 | 38.4 | 67 |

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).

TERMI-POINT® is a registered trademark of AMP

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

Similar products

- UNITRONIC® LiHCH refer to page 298

Accessories

- SKINTOP® ST-HF-M refer to page 693
- KT 11 cable shears
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC



UNITRONIC® LiHCH

Screened halogen-free data transmission cable with colour code acc. to DIN 47100



Info

- For use within public buildings and industrial plants
- Further dimensions/colours on request

Benefits

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases
- Low capacitance due to polyolefin-based insulation
- Overall braid minimises electrical interference

Application range

- Suitable for areas with a high density of people as well as high-value property that must be protected in the event of a fire
- For use within public buildings, transport systems and industrial plants
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- For use in computer systems, instrumentation systems, office equipment, balances - wherever screened, halogen-free, small-diameter cables are needed.
- 7-wire stranded conductor can be used for Maxi TERMI-POINT® wiring (for this product the 0,34mm² version only)

Product features

- Flame-retardant according IEC 60332-1-2
- Low smoke zero halogen (LSZH)
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- Low smoke density according to IEC 61034-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
 - Core insulation made of special halogen-free compound
 - Tinned-copper braiding
 - Outer sheath made of special halogen-free compound
- Outer sheath colour: pebble grey (RAL 7032)

Technical data

| | |
|--|--|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000104 ETIM 5.0/6.0 Class-Description: Control cable |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 80 nF/km C/S approx. 120 nF/km |
| | Peak operating voltage (not for power applications) 250 V |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Stranded, fine-wire 0.34 mm ² : 7-wire |
| | Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 6 x outer diameter |
| | Test voltage 1200 V |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -30°C to +80°C |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiHCH | | | | |
| 0037302 | 2 x 0.14 | 4.1 | 12 | 22 |
| 0037304 | 4 x 0.14 | 4.5 | 15.9 | 29 |
| 0037308 | 8 x 0.14 | 6 | 26 | 41 |
| 0037312 | 12 x 0.14 | 6.5 | 30.4 | 78 |
| 0037325 | 25 x 0.14 | 8.7 | 63 | 149 |
| 0037402 | 2 x 0.25 | 4.7 | 15 | 25 |
| 0037403 | 3 x 0.25 | 4.9 | 18 | 30 |
| 0037404 | 4 x 0.25 | 5.2 | 22 | 35 |
| 0037406 | 6 x 0.25 | 6.2 | 30 | 49 |
| 0037407 | 7 x 0.25 | 6.2 | 32 | 52 |
| 0037408 | 8 x 0.25 | 7.3 | 35 | 58 |
| 0037410 | 10 x 0.25 | 7.7 | 42 | 81 |
| 0037425 | 25 x 0.25 | 10.9 | 114 | 172 |
| 0037502 | 2 x 0.34 | 5.1 | 17 | 30 |
| 0037503 | 3 x 0.34 | 5.3 | 21 | 35 |
| 0037504 | 4 x 0.34 | 5.9 | 25 | 42 |
| 0037507 | 7 x 0.34 | 7 | 42 | 73 |
| 0037508 | 8 x 0.34 | 8 | 45 | 84 |
| 0037510 | 10 x 0.34 | 8.5 | 63 | 101 |
| 0037516 | 16 x 0.34 | 9.6 | 94 | 160 |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0037525 | 25 x 0.34 | 12.1 | 144 | 259 |
| 0037602 | 2 x 0.5 | 5.8 | 29 | 38 |
| 0037603 | 3 x 0.5 | 6.1 | 35 | 47 |
| 0037604 | 4 x 0.5 | 6.5 | 45 | 67 |
| 0037605 | 5 x 0.5 | 7.2 | 50 | 76 |
| 0037606 | 6 x 0.5 | 7.8 | 59 | 84 |
| 0037607 | 7 x 0.5 | 7.8 | 68 | 91 |
| 0037608 | 8 x 0.5 | 8.9 | 75 | 135 |
| 0037610 | 10 x 0.5 | 9.5 | 93 | 160 |
| 0037612 | 12 x 0.5 | 9.8 | 99 | 177 |
| 0037618 | 18 x 0.5 | 11.7 | 134 | 239 |
| 0037702 | 2 x 0.75 | 6.2 | 35 | 45 |
| 0037703 | 3 x 0.75 | 6.5 | 46 | 69 |
| 0037704 | 4 x 0.75 | 7.2 | 56 | 80 |
| 0037802 | 2 x 1.0 | 6.5 | 43 | 72 |
| 0037803 | 3 x 1.0 | 7 | 56 | 90 |
| 0037804 | 4 x 1.0 | 7.5 | 68 | 109 |
| 0037807 | 7 x 1.0 | 8.8 | 118 | 171 |
| 0037902 | 2 x 1.5 | 7.3 | 58 | 90 |
| 0037903 | 3 x 1.5 | 7.7 | 74 | 115 |

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).

TERMI-POINT® is a registered trademark of AMP

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

Similar products

- UNITRONIC® LiHCH (TP) refer to page 299

Accessories

- SKINTOP® MS-HF-M SC refer to page 707
- SKINTOP® MS-SC-M refer to page 701
- Multipurpose shears A and B



UNITRONIC® LiHCH (TP)

Screened halogen-free data transmission cable with colour code acc. to DIN 47100 and twisted pairs

Info

- TP = twisted pair



Benefits

- Halogen-free: to protect human life and valuable assets in the event of a fire, through low smoke density and low amount of corrosive gases
- Low capacitance due to polyolefin-based insulation
- Overall braid minimises electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Application range

- Suitable for areas with a high density of people as well as high-value property that must be protected in the event of a fire
- For use within public buildings, transport systems and industrial plants
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- For use in computer systems, instrumentation systems, office equipment, balances - wherever screened, halogen-free, small-diameter cables are needed.

Product features

- Flame-retardant according IEC 60332-1-2
- Low smoke zero halogen (LSZH)
- Halogen-free as per IEC 60754-1, Low corrosivity/ acidity of combustion gases per IEC 60754-2, Low toxicity of comb. gases per EN 50305
- Low smoke density according to IEC 61034-2

Norm references / Approvals

- Based on VDE 0812

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of special halogen-free compound
- TP structure
- Tinned-copper braiding
- Outer sheath made of special halogen-free compound
- Outer sheath colour: pebble grey (RAL 7032)

Technical data

| | |
|--|--|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000104 ETIM 5.0/6.0 Class-Description: Control cable |
| | Core identification code DIN 47100 without colour repetition, refer to Appendix T9 |
| | Mutual capacitance C/C approx. 80 nF/km C/S approx. 120 nF/km |
| | Peak operating voltage (not for power applications) 250 V |
| | Coupling At 1 kHz: approx. 300 pF/100 m |
| | Inductivity approx. 0.65 mH/km |
| | Conductor stranding Fine copper wire strands |
| | Minimum bending radius Occasional flexing: 15 x outer diameter Fixed installation: 6 x outer diameter |
| | Test voltage 1200 V |
| | Temperature range Occasional flexing: -5°C to +70°C Fixed installation: -30°C to +80°C |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|------------------------------|---|---------------------|----------------------|----------------|
| UNITRONIC® LiHCH (TP) | | | | |
| 0038302 | 2 x 2 x 0.14 | 5.5 | 18.5 | 39 |
| 0038303 | 3 x 2 x 0.14 | 6 | 23 | 48 |
| 0038304 | 4 x 2 x 0.14 | 6.4 | 26.6 | 54 |
| 0038308 | 8 x 2 x 0.14 | 8.4 | 53.7 | 97 |
| 0038312 | 12 x 2 x 0.14 | 9.1 | 66 | 142 |
| 0038316 | 16 x 2 x 0.14 | 10.4 | 79 | 154 |
| 0038325 | 25 x 2 x 0.14 | 12.7 | 113 | 238 |
| 0038402 | 2 x 2 x 0.25 | 6.5 | 28 | 54 |
| 0038403 | 3 x 2 x 0.25 | 7.3 | 39.6 | 66 |
| 0038404 | 4 x 2 x 0.25 | 7.8 | 44.9 | 81 |
| 0038406 | 6 x 2 x 0.25 | 8.7 | 69.5 | 115 |
| 0038408 | 8 x 2 x 0.25 | 10.5 | 76.9 | 130 |
| 0038412 | 12 x 2 x 0.25 | 11.5 | 120 | 190 |

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0038416 | 16 x 2 x 0.25 | 12.7 | 146.5 | 238 |
| 0038602 | 2 x 2 x 0.5 | 8.1 | 48.1 | 93 |
| 0038603 | 3 x 2 x 0.5 | 8.9 | 73.7 | 129 |
| 0038604 | 4 x 2 x 0.5 | 9.6 | 82 | 146 |
| 0038606 | 6 x 2 x 0.5 | 11.3 | 110 | 198 |
| 0038608 | 8 x 2 x 0.5 | 13.3 | 139 | 259 |
| 0038612 | 12 x 2 x 0.5 | 15.1 | 198.3 | 354 |
| 0038616 | 16 x 2 x 0.5 | 16.7 | 240 | 459 |
| 0038702 | 2 x 2 x 0.75 | 8.7 | 58 | 106 |
| 0038704 | 4 x 2 x 0.75 | 10.9 | 108 | 179 |
| 0038708 | 8 x 2 x 0.75 | 14.9 | 180 | 305 |
| 0038802 | 2 x 2 x 1.0 | 9.2 | 84 | 142 |
| 0038803 | 3 x 2 x 1.0 | 10.6 | 96 | 173 |
| 0038804 | 4 x 2 x 1.0 | 11.5 | 121 | 212 |

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
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Accessories

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