**® LAPP GROUP** 

Low frequency data transmission cables • Halogen-free















# UNITRONIC® ROBUST C

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



- · Excellent weather resistance
- Good chemical resistance

# LAPP KABEL STUTIGART 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 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
- Tinned-copper braiding
- · Outer sheath made of special TPE
- · Outer sheath colour: black

## **Technical data**



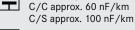
# Classification

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



Core identification code DIN 47100 without colour repetition,

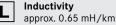
refer to Appendix T9 Mutual capacitance



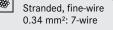
Peak operating voltage

(not for power applications) 0.14 mm<sup>2</sup>: 350 V at ≥ 0.25 mm<sup>2</sup>: 500 V





**Conductor stranding** 



Minimum bending radius Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter



At 0.14 mm<sup>2</sup>: 1200 V Temperature range

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

Article number	Number of cores and mm² 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 <sup>2</sup> 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.  $1 \times 500 \text{ m}$  drum or  $5 \times 100 \text{ m}$  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
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DATA OTDID	
<ul> <li>DATA STRIP stripping tool refer to page</li> </ul>	100