








U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® ROBUST	07.11.2014

Halogen-free data transmission cable with colour code acc. to DIN 47100 - resistant to a wide range of chemical media
 Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for both indoor and outdoor applications
 Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
 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



-  Suitable for outdoor use
-  Good chemical resistance
-  Food & Beverage
-  Halogen-free
-  Cold-resistant
-  UV-resistant

Info

Excellent weather resistance
 Good chemical resistance

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 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

Norm references / Approvals

Based on VDE 0812

Product Management	Document: LAPP_PRO224858EN.pdf	1 / 3
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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

Remark

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.

Technical Data

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
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity:	approx. 0.65 mH/km
Specific insulation resistance:	> 20 GOhm x cm
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 ≥ 0.25 mm ² : 1500 V
Temperature range:	Occasional flexing: -40°C to +90°C Fixed installation: -50°C to +90°C

Product Management	Document: LAPP_PRO224858EN.pdf	2 / 3
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Part 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	7.0	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	14.0	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	35.0	95
1032012	2 x 0,25	3.8	4.8	21
1032013	3 x 0,25	4.0	7.2	25
1032014	4 x 0,25	4.3	9.6	31
1032015	5 x 0,25	4.7	12.0	38
1032016	7 x 0,25	5.1	16.8	47
1032017	8 x 0,25	6.2	19.2	66
1032018	10 x 0,25	6.8	24.0	71
1032019	12 x 0,25	7.0	28.8	81
1032021	16 x 0,25	7.7	38.4	104
1032024	25 x 0,25	9.5	60.0	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