








U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® ROBUST C (TP)	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 Management	Document: LAPP_PRO224950EN.pdf	1 / 4
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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)

Norm references / Approvals

Based on VDE 0812

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 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
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_PRO224950EN.pdf	2 / 4
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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 C (TP)				
1032100	2 x 2 x 0,14	5.3	16.1	31
1032101	3 x 2 x 0,14	5.8	19.0	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
1032117	5 x 2 x 0,34	8.8	58.2	110
1032118	1 x 2 x 0,5	4.9	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	9.0	64.1	98
1032132	3 x 2 x 1	10.4	83.5	135



Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1032133	4 x 2 x 1	11.3	105.7	168