

**IBExU Institut für Sicherheitstechnik GmbH**  
An-Institut der TU Bergakademie Freiberg

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[1] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**  
according to Directive 94/9/EC, Annex IV



- Translation -

[2] Equipment or Protective Systems, intended for use in Potentially Explosive Atmospheres,  
**Directive 94/9/EC**

[3] Notification number: **IBExU12ATEX Q013**

[4] Product category: **Cable entry devices**  
Electrical equipment of the equipment group II,  
Category 2 G and 1 D, Types of protection: e, t

[5] Manufacturer: U.I. Lapp GmbH

[6] Address: Schulze-Delitzsch-Straße 25  
70565 Stuttgart  
Germany

[7] Production site: see [5]

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 for Annex IV in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994 notifies to the manufacturer that he applies in the production site according to [7] a quality assurance system for the production, final inspection and testing of the product category mentioned in [4] which complies with Annex IV of the Directive.

[9] This notification is based on audit report no. IB-12-6-017 issued of 17 August 2012. It is valid until 09 June 2015. This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV. Results of surveillance audits of the quality assurance system are a part of this notification.

[10] According to Article 10[1] of the Directive 94/9/EC the CE marking shall be followed by the identification Number 0637 identifying the notified body involved in the production control stage.

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Authorized for certifications  
- Explosion protection -


Freiberg, 14 September 2012

By order

  
(Dipl. Ing. Willamowski)



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® ROBUST 215 C</b>	05.11.2015

Proven all-weather control cable - screened and resistant to a wide range of chemical media  
 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



Suitable for outdoor use



Good chemical resistance



Single halogen-free cable



Cold-resistant



Interference signals



UV-resistant


#### Info

Excellent weather resistance  
 Good chemical resistance  
 EMC compliant copper screening

#### 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  
 Agricultural equipment  
 For indoor and outdoor use  
 In EMC-sensitive environments  
 (electromagnetic compatibility)

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U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>ÖLFLEX® ROBUST 215 C</b>	05.11.2015

### Product Make-up

Fine-wire, bare copper conductor  
Core insulation made of modified PP  
Cores twisted in layers  
Halogen-free plastic foil wrapping  
Tinned copper screen braiding  
Outer sheath made of special TPE  
Sheath colour: black

### Norm references / Approvals

Based on VDE 0250 / 0285  
Certified resistance to disinfection and cleaning solutions used in food and beverage industry

### Product features

Good chemical resistance to ester-based hydraulic fluids  
Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2  
Flexible down to -40°C  
Low-capacitance design  
Number-coded cores

### 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](http://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).

Single lengths for sizes: ≥ 4G16 max. 600 m; ≥ 4G25 max. 300 m; ≥ 4G50 max. 250 m

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

### Technical Data

Core identification code:	Black with white numbers acc. to VDE 0293-1
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius:	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage:	U <sub>0</sub> /U: 300/500 V
Test voltage:	Core/core: 4000 V Core/screen: 2000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Occasional flexing: -40°C to +80°C Fixed installation: -50°C to +80°C

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## ÖLFLEX® ROBUST 215 C

05.11.2015

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® ROBUST 215 C				
0022700	2 X 0,5	5,9	36.0	42
0022701	3 G 0,5	6,2	43.0	52
0022702	3 X 0,5	6,2	43.0	52
0022703	4 G 0,5	6,6	49.0	59
0022704	4 X 0,5	6,6	49.0	59
0022705	5 G 0,5	7,1	57.0	68
0022706	5 X 0,5	7,1	57.0	68
0022708	7 G 0,5	7,7	69.0	85
0022709	7 X 0,5	7,7	69.0	85
0022711	12 G 0,5	10,1	104.0	136
0022712	18 G 0,5	11,8	141.0	189
0022713	25 G 0,5	13,7	211.0	265
0022717	2 X 0,75	6,3	43.0	50
0022718	3 G 0,75	6,6	52.0	60
0022719	3 X 0,75	6,6	52.0	60
0022720	4 G 0,75	7,1	61.0	72
0022721	4 X 0,75	7,1	61.0	72
0022722	5 G 0,75	7,9	72.0	88
0022723	5 X 0,75	7,9	72.0	88
0022724	7 G 0,75	8,5	89.0	110
0022725	7 X 0,75	8,5	89.0	110
0022727	12 G 0,75	11,1	138.0	177
0022728	18 G 0,75	13.0	211.0	247
0022729	25 G 0,75	15,1	280.0	347
0022730	34 G 0,75	17,5	380.0	460
0022733	2 X 1,0	6,6	51.0	60
0022734	3 G 1,0	6,9	62.0	70
0022735	3 X 1,0	6,9	62.0	70
0022736	4 G 1,0	7,4	74.0	85
0022737	4 X 1,0	7,4	74.0	85
0022738	5 G 1,0	8,3	88.0	103
0022739	5 X 1,0	8,3	88.0	103
0022740	7 G 1,0	8,9	112.0	131

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0022742	12 G 1,0	11,7	185.0	213
0022743	18 G 1,0	14,1	268.0	321
0022744	25 G 1,0	16,2	354.0	425
0022748	2 X 1,5	7,2	65.0	71
0022749	3 G 1,5	7,6	82.0	90
0022750	3 X 1,5	7,6	82.0	90
0022751	4 G 1,5	8,4	100.0	114
0022752	4 X 1,5	8,4	100.0	114
0022753	5 G 1,5	9,1	119.0	136
0022754	5 X 1,5	9,1	119.0	136
0022756	7 G 1,5	10.0	154.0	177
0022757	7 X 1,5	10.0	154.0	177
0022760	12 G 1,5	13,4	268.0	290
0022761	18 G 1,5	15,8	373.0	435
0022762	25 G 1,5	18,2	530.0	579
0022763	34 G 1,5	21,2	683.0	797
0022767	3 G 2,5	9,1	118.0	134
0022768	4 G 2,5	10.0	147.0	169
0022769	5 G 2,5	11,1	176.0	207
0022770	7 G 2,5	12.0	253.0	270
0022774	4 G 4	11,9	190.0	258
0022776	4 G 6	14,5	290.0	392
0022777	4 G 10	17,5	458.0	602
0022778	4 G 16	20,2	736.6	928
0022771	4 G 25	25,1	1126.7	1411
0022780	4 G 35	28.0	1540.0	1883