

## ÖLFLEX® 409 P

Abrasion-resistant and oil-resistant PUR control cable for increased application requirements – certified for North America

ÖLFLEX® 409 P - PUR control cable with UL/CSA AWM certification for oil- and abrasion-resistant use in North America in apparatus construction, in industrial machines and machine tools.

### Info

Replaces previous ÖLFLEX® 491 P  
UL/cUL certified for North America  
Interstice-filling functional layer



Oil-resistant



Mechanical resistance

### Benefits

Durable under harsh conditions thanks to robust PUR sheath material

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Interstice-filling functional layer ensures more safety and efficiency during industrial stripping

Certified for the USA and Canada for export-oriented appliance and apparatus manufacturers

### Application range

Appliance and apparatus construction

Industrial machinery and machine tools

Measurement, regulation and electrical applications

Also suitable for outdoor use due to the temperature range

Very suitable for oily wet areas within machine tools and transfer lines that are subject to normal mechanical stress

## ÖLFLEX® 409 P

### Product features

High oil resistance  
Flame retardance:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Abrasion-resistant and notch-resistant  
Low-adhesive surface  
Resistant to hydrolysis and microbes

### Norm references / approvals

UL AWM Style 20234  
cUL AWM II A/B FT1

### Design

Fine-wire, bare copper conductor  
Core insulation: Special PVC  
Cores twisted in layers  
Special sheath made of polyurethane with interstice-filling functional layer  
Sheath colour: black (RAL 9005)

### Technical Data

Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	Black with white numbers acc. to VDE 0293-1
Conductor design:	Fine wire according to VDE 0295, class 5 / IEC 60228 class 5
Minimum bending radius:	Flexible use: 12.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	U <sub>0</sub> /U: 300/500 V UL/CSA: 1000 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Occasional flexing: -5°C to +70°C (UL: +80°C) Fixed installation: -40°C to +80°C

### Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)

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

\* Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1311852	2 X 0.75	6.9	14.4	61
1311103	3 G 0.75	7.2	21.6	71
1311104	4 G 0.75	7.7	28.8	84
1311105	5 G 0.75	8.3	36	100
1311107	7 G 0.75	8.9	50.4	122
1311110	10 G 0.75	10.8	72	180
1311112	12 G 0.75	11.1	86.4	198
1311118	18 G 0.75	12.8	129.6	275
1311125	25 G 0.75	14.5	180	364
1311902	2 X 1	7.2	19.2	69
1311203	3 G 1	7.5	28.8	81
1311204	4 G 1	8	38.4	97
1311205	5 G 1	8.7	48	117
1311207	7 G 1	9.3	67.2	142
1311210	10 G 1	11.4	96	212
1311212	12 G 1	11.7	115.2	234
1311218	18 G 1	13.5	172.8	327
1311225	25 G 1	15.4	240	437
1311952	2 X 1.5	7.8	28.8	87
1311303	3 G 1.5	8.2	43.2	104
1311304	4 G 1.5	8.8	57.6	126
1311305	5 G 1.5	9.5	72	151
1311307	7 G 1.5	10.2	100.8	188
1311312	12 G 1.5	13	172.8	314
1311318	18 G 1.5	15	259.2	441
1311325	25 G 1.5	17.2	360	596
1311403	3 G 2.5	9.5	72	151
1311404	4 G 2.5	10.2	96	184
1311405	5 G 2.5	11.1	120	224
1311407	7 G 2.5	12	168	282
1311412	12 G 2.5	15.5	288	480
1311504	4 G 4	11.8	153.6	266
1311505	5 G 4	12.9	192	325
1311604	4 G 6	13.1	230.4	359

Last Update (02.03.2017)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)You can find the current technical data in the corresponding data sheet:  
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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1311605	5 G 6	14.3	288	438
1311704	4 G 10	16.5	384	585
1311705	5 G 10	18.2	480	722
1311804	4 G 16	19.1	614.4	861
1311805	5 G 16	22.1	768	1107

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