

ÖLFLEX® 409 P 12G0,75

Article No.: 1311112

Power and control cable; 12G0.75; U₀/U: 300/500 V; PUR; Core identification: Numbers; UL recognized; Flexible



Details

Benefits

- Durable, resistant product thanks to the outer jacket PUR material that is resistant to abrasions, notches and cuts.
- UL/CSA certification according to technical data enables the product to be used on the North American market.
- Product with multiple certifications enables universal use and reduces the variety of parts, thus guaranteeing logistics savings.
- Operating voltage of 1000 V according to UL, permitted for North America.

Application

- For universal use for wiring machine-internal and cross-plant control circuits.
- Typical areas of application are industrial machinery, machine tools and transfer lines.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry, wet and especially in harsh and oily environments.
- The PUR outer jacket withstands high mechanical stress.
- The PUR outer jacket is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Suitable for outdoor use.

Notes

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

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

Remarks

Technical Data

General information

| | |
|------------------|---|
| Brand | ÖLFLEX® |
| Product type | Power and control cable |
| Copper index | 580.5 lb/10000 ft |
| Industry segment | Assembly Machines Healthcare & Pharma Lifts & Elevators |

Electrical parameters

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|-----------------------------|---|
| Nominal voltage | U_0/U : 300/500 V AC rms according to IEC |
| Rated voltage | 1000 V AC rms according to cRU AWM 1000 V AC rms according to UL AWM |
| test voltage | 4 kV |
| Current rating according to | VDE 0298-4 |

Product design

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| Cable dimension | 12G0.75 |
| Nominal cross section conductor (mm ²) | 0.75 mm ² |
| Conductor material | Bare Copper |

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|---|------------------------------|
| Conductor design | IEC 60228 class 5: fine-wire |
| Including protective ground | Yes |
| Number of cores | 12 |
| Stranding type | Layered Stranding |
| Interstice-filling functional layer | Yes |
| Shielded | No |
| Nominal outer diameter | 0.429 in |
| Cable form | Round |
| Core insulation base material | Polyvinylchloride |
| Conductor insulation basic material, short form | PVC |
| Basic material of outer jacket | Polyurethane |
| Base material of outer sheath, shortname | PUR |
| Outer jacket color | black |
| Colour outer sheath RAL code | RAL 9005 |
| Core identification | Numbers |
| Conductor color code | EN 50334 VDE 0293-1 |

Product features

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| Application area | Flexible Fixed Installation |
| Minimum bending radius, stationary | 4 x outer diameter |
| Minimum bending radius in inch, fixed installation | 1.717 in |
| Minimum bending radius, occasionally moved | 12.5 x outer diameter |
| Minimum bending radius in mm, occasionally moved | 5.366 in |
| Temperature, fixed installation | -40 °C to 80 °C max. conductor temperature |

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|---------------------------------|---|
| Temperature, occasionally moved | -5 °C to 80 °C max. conductor temperature according to UL AWM -5 °C to 70 °C max. conductor temperature according to IEC -5 °C to 80 °C max. conductor temperature according to CSA AWM |
| Storage temperature max. | -25 °C |
| Storage temperature maximum | 55 °C |
| Flame-retardant | Yes |
| Flame retardance according to | IEC 60332-1-2 UL VW-1 CSA FT1 |
| UV-resistant | Yes |
| UV-resistant according to | EN ISO 4892-2, method A (color change permitted) EN 50618 EN 50620 |
| weather resistant | Yes |
| Ozone-resistant | Yes |
| ozone resistant according to | EN 50396, method B |
| Chemical resistant | Yes |
| Hydrolysis-resistant | Yes |
| Halogenfree | No |
| Oil resistant | Yes |
| Oil resistance according to | EN 50363-10-2 |
| PWIS-free | Yes |
| PWIS-free according to | VDMA 24364-B2-L |

Certifications and standards

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|--------------------------|--|
| CE marking | Yes |
| EAC certified | Yes |
| EAC certification number | EAЭC N RU Д-DE.АЮ64.В.00130/20 |
| UL recognized | Yes |
| UL AWM certification | 20234 according to UL 758 (e-file number: E63634) 11009 according to UL 758 (e-file number: E63634) |

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|---|--|
| UL listed | No |
| cUR recognized | Yes |
| cUR certification | AWM II A according to CSA C22.2 No. 210 (e-file number: E63634) AWM I B according to CSA C22.2 No. 210 (e-file number: E63634) AWM II B according to CSA C22.2 No. 210 (e-file number: E63634) AWM I A according to CSA C22.2 No. 210 (e-file number: E63634) |
| cUL listed | No |
| CSA certified | No |
| VDE certified | No |
| HAR-certified | No |
| Resistance to flame propagation tested according to UN/ECE-R118 | No |
| Ecolab certified | No |

ÖLFLEX® 409 P

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|-----------------------|-----------------|-----------------------------|--|------------------------|---------------------|
| 1311103 | ÖLFLEX® 409 P 3G0,75 | 3 | Yes | 0.75 mm ² | 0.276 in | 145.1 lb/10000 ft |
| 1311104 | ÖLFLEX® 409 P 4G0,75 | 4 | Yes | 0.75 mm ² | 0.295 in | 193.5 lb/10000 ft |
| 1311105 | ÖLFLEX® 409 P 5G0,75 | 5 | Yes | 0.75 mm ² | 0.319 in | 241.9 lb/10000 ft |
| 1311107 | ÖLFLEX® 409 P 7G0,75 | 7 | Yes | 0.75 mm ² | 0.343 in | 338.6 lb/10000 ft |
| 1311110 | ÖLFLEX® 409 P 10G0,75 | 10 | Yes | 0.75 mm ² | 0.417 in | 483.8 lb/10000 ft |
| 1311112 | ÖLFLEX® 409 P 12G0,75 | 12 | Yes | 0.75 mm ² | 0.429 in | 580.5 lb/10000 ft |
| 1311118 | ÖLFLEX® 409 P 18G0,75 | 18 | Yes | 0.75 mm ² | 0.496 in | 870.8 lb/10000 ft |
| 1311125 | ÖLFLEX® 409 P 25G0,75 | 25 | Yes | 0.75 mm ² | 0.563 in | 1209.4 lb/10000 ft |
| 1311203 | ÖLFLEX® 409 P 3G1 | 3 | Yes | 1 mm ² | 0.287 in | 193.5 lb/10000 ft |
| 1311204 | ÖLFLEX® 409 P 4G1 | 4 | Yes | 1 mm ² | 0.307 in | 258 lb/10000 ft |
| 1311205 | ÖLFLEX® 409 P 5G1 | 5 | Yes | 1 mm ² | 0.335 in | 322.5 lb/10000 ft |
| 1311207 | ÖLFLEX® 409 P 7G1 | 7 | Yes | 1 mm ² | 0.354 in | 451.5 lb/10000 ft |
| 1311210 | ÖLFLEX® 409 P 10G1 | 10 | Yes | 1 mm ² | 0.441 in | 645 lb/10000 ft |
| 1311212 | ÖLFLEX® 409 P 12G1 | 12 | Yes | 1 mm ² | 0.453 in | 774 lb/10000 ft |
| 1311218 | ÖLFLEX® 409 P 18G1 | 18 | Yes | 1 mm ² | 0.524 in | 1161 lb/10000 ft |
| 1311225 | ÖLFLEX® 409 P 25G1 | 25 | Yes | 1 mm ² | 0.598 in | 1612.6 lb/10000 ft |
| 1311303 | ÖLFLEX® 409 P 3G1,5 | 3 | Yes | 1.5 mm ² | 0.315 in | 290.3 lb/10000 ft |
| 1311304 | ÖLFLEX® 409 P 4G1,5 | 4 | Yes | 1.5 mm ² | 0.339 in | 387 lb/10000 ft |
| 1311305 | ÖLFLEX® 409 P 5G1,5 | 5 | Yes | 1.5 mm ² | 0.366 in | 483.8 lb/10000 ft |
| 1311307 | ÖLFLEX® 409 P 7G1,5 | 7 | Yes | 1.5 mm ² | 0.394 in | 677.3 lb/10000 ft |
| 1311312 | ÖLFLEX® 409 P 12G1,5 | 12 | Yes | 1.5 mm ² | 0.504 in | 1161.04 lb/10000 ft |
| 1311318 | ÖLFLEX® 409 P 18G1,5 | 18 | Yes | 1.5 mm ² | 0.583 in | 1741.6 lb/10000 ft |
| 1311325 | ÖLFLEX® 409 P 25G1,5 | 25 | Yes | 1.5 mm ² | 0.677 in | 2418.8 lb/10000 ft |
| 1311403 | ÖLFLEX® 409 P 3G2,5 | 3 | Yes | 2.5 mm ² | 0.366 in | 483.8 lb/10000 ft |
| 1311404 | ÖLFLEX® 409 P 4G2,5 | 4 | Yes | 2.5 mm ² | 0.394 in | 645 lb/10000 ft |
| 1311405 | ÖLFLEX® 409 P 5G2,5 | 5 | Yes | 2.5 mm ² | 0.429 in | 806.3 lb/10000 ft |
| 1311407 | ÖLFLEX® 409 P 7G2,5 | 7 | Yes | 2.5 mm ² | 0.465 in | 1128.8 lb/10000 ft |
| 1311412 | ÖLFLEX® 409 P 12G2,5 | 12 | Yes | 2.5 mm ² | 0.602 in | 1935.1 lb/10000 ft |
| 1311504 | ÖLFLEX® 409 P 4G4 | 4 | Yes | 4 mm ² | 0.457 in | 1032.03 lb/10000 ft |
| 1311505 | ÖLFLEX® 409 P 5G4 | 5 | Yes | 4 mm ² | 0.5 in | 1290 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|----------------------|-----------------|-----------------------------|--|------------------------|--------------------|
| 1311604 | ÖLFLEX® 409 P 4G6 | 4 | Yes | 6 mm ² | 0.528 in | 1548.1 lb/10000 ft |
| 1311605 | ÖLFLEX® 409 P 5G6 | 5 | Yes | 6 mm ² | 0.579 in | 1935.1 lb/10000 ft |
| 1311704 | ÖLFLEX® 409 P 4G10 | 4 | Yes | 10 mm ² | 0.669 in | 2580.1 lb/10000 ft |
| 1311705 | ÖLFLEX® 409 P 5G10 | 5 | Yes | 10 mm ² | 0.736 in | 3225.1 lb/10000 ft |
| 1311804 | ÖLFLEX® 409 P 4G16 | 4 | Yes | 16 mm ² | 0.772 in | 4128.2 lb/10000 ft |
| 1311805 | ÖLFLEX® 409 P 5G16 | 5 | Yes | 16 mm ² | 0.874 in | 5160.2 lb/10000 ft |
| 1311852 | ÖLFLEX® 409 P 2X0,75 | 2 | No | 0.75 mm ² | 0.272 in | 96.8 lb/10000 ft |
| 1311902 | ÖLFLEX® 409 P 2X1 | 2 | No | 1 mm ² | 0.283 in | 129 lb/10000 ft |
| 1311952 | ÖLFLEX® 409 P 2X1,5 | 2 | No | 1.5 mm ² | 0.307 in | 193.5 lb/10000 ft |

V1.1