

ÖLFLEX® CLASSIC 400 P 5G6**Article No.:** 1312605

Power and control cable; 5G6; gray; U₀/U: 300/500 V; PUR; Core identification: Numbers; Flexible

**Details****Benefits**

- Durable, resistant product thanks to the outer jacket PUR material that is resistant to abrasions, notches and cuts.
- Also available as an unshielded DESINA-compliant power cable with black outer jacket.
- Tested resistance to ECOLAB® disinfectants and cleaning agents.

Application

- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry, damp and, especially, 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, subject to the temperature range.

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.

DESINA - Decentralized and standardized installation technology for machine tools and production systems.

Remarks

Technical Data

General information

| | |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brand | ÖLFLEX® |
| Product type | Power and control cable |
| Copper index | 1935.1 lb/10000 ft |
| Industry segment | Agricultural & Farm Machinery Assembly Machines Automotive Construction Machinery Food & Beverage Healthcare & Pharma Heating, Ventilation, Air Conditioning & Refrigeration Intralogistics & Material handling Lifts & Elevators Machine Tools Process Industry Robotics |

Electrical parameters

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

Product design

| | |
|----------------------------------------------------|------------------------------|
| Cable dimension | 5G6 |
| Nominal cross section conductor (mm ²) | 6 mm ² |
| Conductor material | Bare Copper |
| Conductor design | IEC 60228 class 5: fine-wire |
| Including protective ground | Yes |
| Number of cores | 5 |
| Stranding type | Layered Stranding |
| Shielded | No |
| Nominal outer diameter | 0.571 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 | gray |
| Colour outer sheath RAL code | RAL 7001 |
| Core identification | Numbers |
| Conductor color code | EN 50334 VDE 0293-1 |

Product features

| | |
|----------------------------------------------------|--------------------------------------------|
| Application area | Flexible Fixed Installation |
| Minimum bending radius, stationary | 4 x outer diameter |
| Minimum bending radius in inch, fixed installation | 2.283 in |
| Minimum bending radius, occasionally moved | 12.5 x outer diameter |
| Minimum bending radius in mm, occasionally moved | 7.138 in |
| Temperature, fixed installation | -40 °C to 80 °C max. conductor temperature |
| Temperature, occasionally moved | -5 °C to 70 °C max. conductor temperature |

| | |
|------------------------------|--------------------------------------------------------------------------|
| Storage temperature max. | -25 °C |
| Storage temperature maximum | 55 °C |
| Flame-retardant | No |
| 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

| | |
|-----------------------------------------------------------------|--------------------------------|
| CE marking | Yes |
| EAC certified | Yes |
| EAC certification number | EAЭС N RU Д-DE.АЮ64.В.00130/20 |
| UL recognized | No |
| UL listed | No |
| cUR recognized | No |
| 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 | Yes |

ÖLFLEX® CLASSIC 400 P

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Outer jacket color | Nominal outer diameter | Copper index |
|-------------|-------------------------------|-----------------|-----------------------------|----------------------------------------------------|--------------------|------------------------|---------------------|
| 1312003 | ÖLFLEX® CLASSIC 400 P 3G0,5 | 3 | Yes | 0.5 mm ² | gray | 0.201 in | 100.8 lb/10000 ft |
| 1312004 | ÖLFLEX® CLASSIC 400 P 4G0,5 | 4 | Yes | 0.5 mm ² | gray | 0.224 in | 129 lb/10000 ft |
| 1312005 | ÖLFLEX® CLASSIC 400 P 5G0,5 | 5 | Yes | 0.5 mm ² | gray | 0.244 in | 161.3 lb/10000 ft |
| 1312007 | ÖLFLEX® CLASSIC 400 P 7G0,5 | 7 | Yes | 0.5 mm ² | gray | 0.264 in | 228.4 lb/10000 ft |
| 1312010 | ÖLFLEX® CLASSIC 400 P 10G0,5 | 10 | Yes | 0.5 mm ² | gray | 0.339 in | 322.5 lb/10000 ft |
| 1312012 | ÖLFLEX® CLASSIC 400 P 12G0,5 | 12 | Yes | 0.5 mm ² | gray | 0.35 in | 387 lb/10000 ft |
| 1312018 | ÖLFLEX® CLASSIC 400 P 18G0,5 | 18 | Yes | 0.5 mm ² | gray | 0.413 in | 584.6 lb/10000 ft |
| 1312025 | ÖLFLEX® CLASSIC 400 P 25G0,5 | 25 | Yes | 0.5 mm ² | gray | 0.488 in | 806.3 lb/10000 ft |
| 1312034 | ÖLFLEX® CLASSIC 400 P 34G0,5 | 34 | Yes | 0.5 mm ² | gray | 0.563 in | 1101.9 lb/10000 ft |
| 1312041 | ÖLFLEX® CLASSIC 400 P 41G0,5 | 41 | Yes | 0.5 mm ² | gray | 0.618 in | 1323.6 lb/10000 ft |
| 1312103 | ÖLFLEX® CLASSIC 400 P 3G0,75 | 3 | Yes | 0.75 mm ² | gray | 0.224 in | 145.1 lb/10000 ft |
| 1312104 | ÖLFLEX® CLASSIC 400 P 4G0,75 | 4 | Yes | 0.75 mm ² | gray | 0.244 in | 193.5 lb/10000 ft |
| 1312105 | ÖLFLEX® CLASSIC 400 P 5G0,75 | 5 | Yes | 0.75 mm ² | gray | 0.264 in | 241.9 lb/10000 ft |
| 1312107 | ÖLFLEX® CLASSIC 400 P 7G0,75 | 7 | Yes | 0.75 mm ² | gray | 0.287 in | 336 lb/10000 ft |
| 1312110 | ÖLFLEX® CLASSIC 400 P 10G0,75 | 10 | Yes | 0.75 mm ² | gray | 0.378 in | 483.8 lb/10000 ft |
| 1312112 | ÖLFLEX® CLASSIC 400 P 12G0,75 | 12 | Yes | 0.75 mm ² | gray | 0.39 in | 580.5 lb/10000 ft |
| 1312118 | ÖLFLEX® CLASSIC 400 P 18G0,75 | 18 | Yes | 0.75 mm ² | gray | 0.461 in | 870.8 lb/10000 ft |
| 1312125 | ÖLFLEX® CLASSIC 400 P 25G0,75 | 25 | Yes | 0.75 mm ² | gray | 0.543 in | 1209.4 lb/10000 ft |
| 1312134 | ÖLFLEX® CLASSIC 400 P 34G0,75 | 34 | Yes | 0.75 mm ² | gray | 0.626 in | 1644.8 lb/10000 ft |
| 1312141 | ÖLFLEX® CLASSIC 400 P 41G0,75 | 41 | Yes | 0.75 mm ² | gray | 0.685 in | 1983.4 lb/10000 ft |
| 1312203 | ÖLFLEX® CLASSIC 400 P 3G1 | 3 | Yes | 1 mm ² | gray | 0.236 in | 193.5 lb/10000 ft |
| 1312204 | ÖLFLEX® CLASSIC 400 P 4G1 | 4 | Yes | 1 mm ² | gray | 0.256 in | 258 lb/10000 ft |
| 1312205 | ÖLFLEX® CLASSIC 400 P 5G1 | 5 | Yes | 1 mm ² | gray | 0.28 in | 322.5 lb/10000 ft |
| 1312207 | ÖLFLEX® CLASSIC 400 P 7G1 | 7 | Yes | 1 mm ² | gray | 0.315 in | 450.2 lb/10000 ft |
| 1312210 | ÖLFLEX® CLASSIC 400 P 10G1 | 10 | Yes | 1 mm ² | gray | 0.402 in | 645 lb/10000 ft |
| 1312212 | ÖLFLEX® CLASSIC 400 P 12G1 | 12 | Yes | 1 mm ² | gray | 0.413 in | 772.7 lb/10000 ft |
| 1312218 | ÖLFLEX® CLASSIC 400 P 18G1 | 18 | Yes | 1 mm ² | gray | 0.5 in | 1162.4 lb/10000 ft |
| 1312225 | ÖLFLEX® CLASSIC 400 P 25G1 | 25 | Yes | 1 mm ² | gray | 0.579 in | 1612.56 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Outer jacket color | Nominal outer diameter | Copper index |
|-------------|------------------------------|-----------------|-----------------------------|----------------------------------------------------|--------------------|------------------------|--------------------|
| 1312234 | ÖLFLEX® CLASSIC 400 P 34G1 | 34 | Yes | 1 mm ² | gray | 0.673 in | 2193.1 lb/10000 ft |
| 1312241 | ÖLFLEX® CLASSIC 400 P 41G1 | 41 | Yes | 1 mm ² | gray | 0.74 in | 2644.6 lb/10000 ft |
| 1312303 | ÖLFLEX® CLASSIC 400 P 3G1,5 | 3 | Yes | 1.5 mm ² | gray | 0.264 in | 288.9 lb/10000 ft |
| 1312304 | ÖLFLEX® CLASSIC 400 P 4G1,5 | 4 | Yes | 1.5 mm ² | gray | 0.283 in | 389.7 lb/10000 ft |
| 1312305 | ÖLFLEX® CLASSIC 400 P 5G1,5 | 5 | Yes | 1.5 mm ² | gray | 0.319 in | 483.8 lb/10000 ft |
| 1312307 | ÖLFLEX® CLASSIC 400 P 7G1,5 | 7 | Yes | 1.5 mm ² | gray | 0.35 in | 678.6 lb/10000 ft |
| 1312312 | ÖLFLEX® CLASSIC 400 P 12G1,5 | 12 | Yes | 1.5 mm ² | gray | 0.472 in | 1162.4 lb/10000 ft |
| 1312318 | ÖLFLEX® CLASSIC 400 P 18G1,5 | 18 | Yes | 1.5 mm ² | gray | 0.567 in | 1743.6 lb/10000 ft |
| 1312325 | ÖLFLEX® CLASSIC 400 P 25G1,5 | 25 | Yes | 1.5 mm ² | gray | 0.665 in | 2418.8 lb/10000 ft |
| 1312334 | ÖLFLEX® CLASSIC 400 P 34G1,5 | 34 | Yes | 1.5 mm ² | gray | 0.764 in | 3289.6 lb/10000 ft |
| 1312341 | ÖLFLEX® CLASSIC 400 P 41G1,5 | 41 | Yes | 1.5 mm ² | gray | 0.839 in | 3966.9 lb/10000 ft |
| 1312403 | ÖLFLEX® CLASSIC 400 P 3G2,5 | 3 | Yes | 2.5 mm ² | gray | 0.319 in | 483.76 lb/10000 ft |
| 1312404 | ÖLFLEX® CLASSIC 400 P 4G2,5 | 4 | Yes | 2.5 mm ² | gray | 0.35 in | 645 lb/10000 ft |
| 1312405 | ÖLFLEX® CLASSIC 400 P 5G2,5 | 5 | Yes | 2.5 mm ² | gray | 0.394 in | 806.3 lb/10000 ft |
| 1312407 | ÖLFLEX® CLASSIC 400 P 7G2,5 | 7 | Yes | 2.5 mm ² | gray | 0.437 in | 1128.8 lb/10000 ft |
| 1312412 | ÖLFLEX® CLASSIC 400 P 12G2,5 | 12 | Yes | 2.5 mm ² | gray | 0.583 in | 1935.1 lb/10000 ft |
| 1312504 | ÖLFLEX® CLASSIC 400 P 4G4 | 4 | Yes | 4 mm ² | gray | 0.425 in | 1034.7 lb/10000 ft |
| 1312505 | ÖLFLEX® CLASSIC 400 P 5G4 | 5 | Yes | 4 mm ² | gray | 0.476 in | 1290 lb/10000 ft |
| 1312507 | ÖLFLEX® CLASSIC 400 P 7G4 | 7 | Yes | 4 mm ² | gray | 0.528 in | 1807.4 lb/10000 ft |
| 1312604 | ÖLFLEX® CLASSIC 400 P 4G6 | 4 | Yes | 6 mm ² | gray | 0.512 in | 1548.1 lb/10000 ft |
| 1312605 | ÖLFLEX® CLASSIC 400 P 5G6 | 5 | Yes | 6 mm ² | gray | 0.571 in | 1935.1 lb/10000 ft |
| 1312607 | ÖLFLEX® CLASSIC 400 P 7G6 | 7 | Yes | 6 mm ² | gray | 0.63 in | 2707.8 lb/10000 ft |
| 1312614 | ÖLFLEX® CLASSIC 400 P 4G10 | 4 | Yes | 10 mm ² | gray | 0.638 in | 2580.1 lb/10000 ft |
| 1312615 | ÖLFLEX® CLASSIC 400 P 5G10 | 5 | Yes | 10 mm ² | gray | 0.713 in | 3225.1 lb/10000 ft |
| 1312617 | ÖLFLEX® CLASSIC 400 P 7G10 | 7 | Yes | 10 mm ² | gray | 0.787 in | 4515.2 lb/10000 ft |
| 1312624 | ÖLFLEX® CLASSIC 400 P 4G16 | 4 | Yes | 16 mm ² | gray | 0.74 in | 4128.2 lb/10000 ft |
| 1312802 | ÖLFLEX® CLASSIC 400 P 2X0,5 | 2 | No | 0.5 mm ² | gray | 0.189 in | 67.2 lb/10000 ft |
| 1312803 | ÖLFLEX® CLASSIC 400 P 3X0,5 | 3 | No | 0.5 mm ² | gray | 0.201 in | 100.8 lb/10000 ft |
| 1312804 | ÖLFLEX® CLASSIC 400 P 4X0,5 | 4 | No | 0.5 mm ² | gray | 0.224 in | 129 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Outer jacket color | Nominal outer diameter | Copper index |
|-------------|---------------------------------------|-----------------|-----------------------------|----------------------------------------------------|--------------------|------------------------|---------------------|
| 1312805 | ÖLFLEX® CLASSIC 400 P 5X0,5 | 5 | No | 0.5 mm ² | gray | 0.244 in | 161.3 lb/10000 ft |
| 1312807 | ÖLFLEX® CLASSIC 400 P 7X0,5 | 7 | No | 0.5 mm ² | gray | 0.264 in | 228.4 lb/10000 ft |
| 1312852 | ÖLFLEX® CLASSIC 400 P 2X0,75 | 2 | No | 0.75 mm ² | gray | 0.213 in | 96.8 lb/10000 ft |
| 1312853 | ÖLFLEX® CLASSIC 400 P 3X0,75 | 3 | No | 0.75 mm ² | gray | 0.224 in | 145.1 lb/10000 ft |
| 1312854 | ÖLFLEX® CLASSIC 400 P 4X0,75 | 4 | No | 0.75 mm ² | gray | 0.244 in | 193.5 lb/10000 ft |
| 1312855 | ÖLFLEX® CLASSIC 400 P 5X0,75 | 5 | No | 0.75 mm ² | gray | 0.264 in | 241.9 lb/10000 ft |
| 1312857 | ÖLFLEX® CLASSIC 400 P 7X0,75 | 7 | No | 0.75 mm ² | gray | 0.287 in | 336 lb/10000 ft |
| 1312902 | ÖLFLEX® CLASSIC 400 P 2X1 | 2 | No | 1 mm ² | gray | 0.224 in | 129 lb/10000 ft |
| 1312903 | ÖLFLEX® CLASSIC 400 P 3X1 | 3 | No | 1 mm ² | gray | 0.236 in | 193.5 lb/10000 ft |
| 1312904 | ÖLFLEX® CLASSIC 400 P 4X1 | 4 | No | 1 mm ² | gray | 0.256 in | 258 lb/10000 ft |
| 1312905 | ÖLFLEX® CLASSIC 400 P 5X1 | 5 | No | 1 mm ² | gray | 0.28 in | 322.5 lb/10000 ft |
| 1312952 | ÖLFLEX® CLASSIC 400 P 2X1,5 | 2 | No | 1.5 mm ² | gray | 0.248 in | 194.9 lb/10000 ft |
| 1312953 | ÖLFLEX® CLASSIC 400 P 3X1,5 | 3 | No | 1.5 mm ² | gray | 0.264 in | 288.9 lb/10000 ft |
| 1312954 | ÖLFLEX® CLASSIC 400 P 4X1,5 | 4 | No | 1.5 mm ² | gray | 0.283 in | 389.7 lb/10000 ft |
| 1312955 | ÖLFLEX® CLASSIC 400 P 5X1,5 | 5 | No | 1.5 mm ² | gray | 0.319 in | 483.8 lb/10000 ft |
| 1312957 | ÖLFLEX® CLASSIC 400 P 7X1,5 | 7 | No | 1.5 mm ² | gray | 0.35 in | 678.6 lb/10000 ft |
| 1312970 | ÖLFLEX® CLASSIC 400 P DESINA 4G1,5 BK | 4 | Yes | 1.5 mm ² | black | 0.283 in | 389.7 lb/10000 ft |
| 1312973 | ÖLFLEX® CLASSIC 400 P DESINA 4G2,5 BK | 4 | Yes | 2.5 mm ² | black | 0.35 in | 645.09 lb/10000 ft |
| 1312976 | ÖLFLEX® CLASSIC 400 P DESINA 4G10 BK | 4 | Yes | 10 mm ² | black | 0.638 in | 2580.36 lb/10000 ft |
| 1312978 | ÖLFLEX® CLASSIC 400 P DESINA 4G25 BK | 4 | Yes | 25 mm ² | black | 0.925 in | 6450.24 lb/10000 ft |
| 1312981 | ÖLFLEX® CLASSIC 400 P DESINA 7G1,5 BK | 7 | Yes | 1.5 mm ² | black | 0.35 in | 678.69 lb/10000 ft |

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