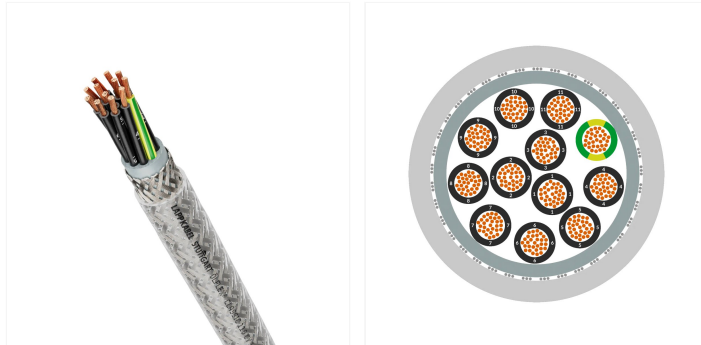


ÖLFLEX® CLASSIC 110 CY 12X0,5

Article No.: 1135762

Power and control cable; 12X0.5; U_0/U : 300/500 V; PVC; Core identification: Numbers; Shielded; Flexible; VDE registration number: 7030



Details

Benefits

- Space-saving due to reduced wall thicknesses.
- High electrical safety thanks to 4000 V test voltage.
- Ideal protection against electromagnetic interference thanks to copper shielding braiding with a high degree of coverage.
- Certified quality and tested properties thanks to VDE registration.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.

Application

- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Suitable for medium mechanical stress.
- Can be used in dry and damp rooms.
- The PVC outer jacket is resistant to acids and alkaline solutions and has limited oil resistance.

Notes

Inductance and operating capacitance are neither defined nor controlled electrical parameters. The specified values were determined by calculation and may deviate due to tolerances.

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.

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

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.

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

Remarks

Technical Data

General information

| | |
|------------------|--|
| Brand | ÖLFLEX® |
| Product type | Power and control cable |
| Copper index | 930.6 lb/10000 ft |
| Industry segment | <ul style="list-style-type: none"> Agricultural & Farm Machinery Assembly Machines Automotive Construction Machinery Energy Food & Beverage Healthcare & Pharma Heating, Ventilation, Air Conditioning & Refrigeration Intralogistics & Material handling Lifts & Elevators Machine Tools Packaging Process Industry Robotics Rolling Stock Ships & boats Solar |

Electrical parameters

| | |
|----------------------------------|---|
| Nominal voltage | U_0/U : 300/500 V AC rms according to IEC |
| Test voltage conductor/conductor | 4 kV |
| Test voltage conductor/shielding | 4 kV |

Product design

| | |
|--|------------------------------|
| Cable dimension | 12X0.5 |
| Nominal cross section conductor (mm ²) | 0.5 mm ² |
| Conductor material | Bare Copper |
| Conductor design | IEC 60228 class 5: fine-wire |
| Including protective ground | No |
| Number of cores | 12 |
| Stranding type | Layered Stranding |
| Shielded | Yes |
| Type of overall shielding | Tin-plated copper braiding |
| With armoring | No |
| Nominal outer diameter | 0.445 in |
| Cable form | Round |
| Core insulation base material | Polyvinylchloride |
| Conductor insulation basic material, short form | PVC |
| Basic material of inner jacket | Polyvinylchloride |
| Basic material of inner jacket, short form | PVC |
| Basic material of outer jacket | Polyvinylchloride |
| Base material of outer sheath, shortname | PVC |
| Outer jacket color | transparent |
| Core identification | Numbers |
| Conductor color code | VDE 0293-1 EN 50334 |

Product features

| | |
|--|--|
| Application area | Flexible Fixed Installation |
| For permanent bending | No |
| For torsional load | No |
| Minimum bending radius, stationary | 6 x outer diameter |
| Minimum bending radius in inch, fixed installation | 2.669 in |
| Minimum bending radius, occasionally moved | 20 x outer diameter |
| Minimum bending radius in mm, occasionally moved | 8.898 in |
| Temperature, fixed installation | -40 °C to 80 °C max. conductor temperature |
| Temperature, occasionally moved | -5 °C to 70 °C max. conductor temperature |
| Flame-retardant | Yes |
| Flame retardance according to | IEC 60332-1-2 |
| UV-resistant | No |
| Chemical resistant | Yes |
| Halogenfree | No |
| Oil resistant | No |
| PWIS-free | Yes |
| PWIS-free according to | VDMA 24364-B2-L |

Certifications and standards

| | |
|---|--------------------------------|
| CE marking | Yes |
| EAC certified | Yes |
| EAC certification number | EAЭC N RU Д-DE.АЮ64.В.00130/20 |
| VDE certified | Yes |
| VDE registration number | 7030 |
| DNV-certified | No |
| CPR fire class | Eca |
| Resistance to flame propagation tested according to UN/ECE-R118 | No |
| Ecolab certified | No |

ÖLFLEX® CLASSIC 110 CY

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|--------------------------------|-----------------|-----------------------------|--|------------------------|---------------------|
| 1135003 | ÖLFLEX® CLASSIC 110 CY 3G0,5 | 3 | Yes | 0.5 mm ² | 0.287 in | 305.7 lb/10000 ft |
| 1135004 | ÖLFLEX® CLASSIC 110 CY 4G0,5 | 4 | Yes | 0.5 mm ² | 0.311 in | 369.54 lb/10000 ft |
| 1135005 | ÖLFLEX® CLASSIC 110 CY 5G0,5 | 5 | Yes | 0.5 mm ² | 0.331 in | 443.5 lb/10000 ft |
| 1135007 | ÖLFLEX® CLASSIC 110 CY 7G0,5 | 7 | Yes | 0.5 mm ² | 0.35 in | 540.9 lb/10000 ft |
| 1135012 | ÖLFLEX® CLASSIC 110 CY 12G0,5 | 12 | Yes | 0.5 mm ² | 0.445 in | 930.6 lb/10000 ft |
| 1135018 | ÖLFLEX® CLASSIC 110 CY 18G0,5 | 18 | Yes | 0.5 mm ² | 0.524 in | 1050.85 lb/10000 ft |
| 1135025 | ÖLFLEX® CLASSIC 110 CY 25G0,5 | 25 | Yes | 0.5 mm ² | 0.598 in | 1679.75 lb/10000 ft |
| 1135030 | ÖLFLEX® CLASSIC 110 CY 30G0,5 | 30 | Yes | 0.5 mm ² | 0.634 in | 1995.75 lb/10000 ft |
| 1135103 | ÖLFLEX® CLASSIC 110 CY 3G0,75 | 3 | Yes | 0.75 mm ² | 0.311 in | 389 lb/10000 ft |
| 1135104 | ÖLFLEX® CLASSIC 110 CY 4G0,75 | 4 | Yes | 0.75 mm ² | 0.331 in | 430 lb/10000 ft |
| 1135105 | ÖLFLEX® CLASSIC 110 CY 5G0,75 | 5 | Yes | 0.75 mm ² | 0.35 in | 520.05 lb/10000 ft |
| 1135107 | ÖLFLEX® CLASSIC 110 CY 7G0,75 | 7 | Yes | 0.75 mm ² | 0.382 in | 685.34 lb/10000 ft |
| 1135112 | ÖLFLEX® CLASSIC 110 CY 12G0,75 | 12 | Yes | 0.75 mm ² | 0.484 in | 1189.38 lb/10000 ft |
| 1135118 | ÖLFLEX® CLASSIC 110 CY 18G0,75 | 18 | Yes | 0.75 mm ² | 0.571 in | 1632.88 lb/10000 ft |
| 1135125 | ÖLFLEX® CLASSIC 110 CY 25G0,75 | 25 | Yes | 0.75 mm ² | 0.654 in | 2064.74 lb/10000 ft |
| 1135134 | ÖLFLEX® CLASSIC 110 CY 34G0,75 | 34 | Yes | 0.75 mm ² | 0.744 in | 2171.6 lb/10000 ft |
| 1135141 | ÖLFLEX® CLASSIC 110 CY 41G0,75 | 41 | Yes | 0.75 mm ² | 0.811 in | 3279.21 lb/10000 ft |
| 1135203 | ÖLFLEX® CLASSIC 110 CY 3G1 | 3 | Yes | 1 mm ² | 0.323 in | 438.8 lb/10000 ft |
| 1135204 | ÖLFLEX® CLASSIC 110 CY 4G1 | 4 | Yes | 1 mm ² | 0.343 in | 524.8 lb/10000 ft |
| 1135205 | ÖLFLEX® CLASSIC 110 CY 5G1 | 5 | Yes | 1 mm ² | 0.374 in | 600.7 lb/10000 ft |
| 1135207 | ÖLFLEX® CLASSIC 110 CY 7G1 | 7 | Yes | 1 mm ² | 0.402 in | 761.26 lb/10000 ft |
| 1135212 | ÖLFLEX® CLASSIC 110 CY 12G1 | 12 | Yes | 1 mm ² | 0.524 in | 1263.8 lb/10000 ft |
| 1135218 | ÖLFLEX® CLASSIC 110 CY 18G1 | 18 | Yes | 1 mm ² | 0.61 in | 1921.6 lb/10000 ft |
| 1135225 | ÖLFLEX® CLASSIC 110 CY 25G1 | 25 | Yes | 1 mm ² | 0.689 in | 2610.33 lb/10000 ft |
| 1135234 | ÖLFLEX® CLASSIC 110 CY 34G1 | 34 | Yes | 1 mm ² | 0.799 in | 3393.44 lb/10000 ft |
| 1135241 | ÖLFLEX® CLASSIC 110 CY 41G1 | 41 | Yes | 1 mm ² | 0.866 in | 3883.6 lb/10000 ft |
| 1135250 | ÖLFLEX® CLASSIC 110 CY 50G1 | 50 | Yes | 1 mm ² | 0.937 in | 4622.7 lb/10000 ft |
| 1135303 | ÖLFLEX® CLASSIC 110 CY 3G1,5 | 3 | Yes | 1.5 mm ² | 0.35 in | 557.7 lb/10000 ft |
| 1135304 | ÖLFLEX® CLASSIC 110 CY 4G1,5 | 4 | Yes | 1.5 mm ² | 0.378 in | 671.9 lb/10000 ft |
| 1135305 | ÖLFLEX® CLASSIC 110 CY 5G1,5 | 5 | Yes | 1.5 mm ² | 0.406 in | 839.9 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|-------------------------------|-----------------|-----------------------------|--|------------------------|----------------------|
| 1135307 | ÖLFLEX® CLASSIC 110 CY 7G1,5 | 7 | Yes | 1.5 mm ² | 0.445 in | 1001.13 lb/10000 ft |
| 1135312 | ÖLFLEX® CLASSIC 110 CY 12G1,5 | 12 | Yes | 1.5 mm ² | 0.583 in | 1881.3 lb/10000 ft |
| 1135318 | ÖLFLEX® CLASSIC 110 CY 18G1,5 | 18 | Yes | 1.5 mm ² | 0.677 in | 2613.7 lb/10000 ft |
| 1135325 | ÖLFLEX® CLASSIC 110 CY 25G1,5 | 25 | Yes | 1.5 mm ² | 0.791 in | 3594.7 lb/10000 ft |
| 1135334 | ÖLFLEX® CLASSIC 110 CY 34G1,5 | 34 | Yes | 1.5 mm ² | 0.898 in | 4717.22 lb/10000 ft |
| 1135341 | ÖLFLEX® CLASSIC 110 CY 41G1,5 | 41 | Yes | 1.5 mm ² | 0.972 in | 5675.45 lb/10000 ft |
| 1135402 | ÖLFLEX® CLASSIC 110 CY 2X2,5 | 2 | No | 2.5 mm ² | 0.39 in | 752.5 lb/10000 ft |
| 1135403 | ÖLFLEX® CLASSIC 110 CY 3G2,5 | 3 | Yes | 2.5 mm ² | 0.406 in | 981 lb/10000 ft |
| 1135404 | ÖLFLEX® CLASSIC 110 CY 4G2,5 | 4 | Yes | 2.5 mm ² | 0.445 in | 1122.07 lb/10000 ft |
| 1135405 | ÖLFLEX® CLASSIC 110 CY 5G2,5 | 5 | Yes | 2.5 mm ² | 0.496 in | 1343.8 lb/10000 ft |
| 1135407 | ÖLFLEX® CLASSIC 110 CY 7G2,5 | 7 | Yes | 2.5 mm ² | 0.547 in | 1935.1 lb/10000 ft |
| 1135412 | ÖLFLEX® CLASSIC 110 CY 12G2,5 | 12 | Yes | 2.5 mm ² | 0.693 in | 3207.31 lb/10000 ft |
| 1135502 | ÖLFLEX® CLASSIC 110 CY 2X4 | 2 | No | 4 mm ² | 0.449 in | 806.36 lb/10000 ft |
| 1135504 | ÖLFLEX® CLASSIC 110 CY 4G4 | 4 | Yes | 4 mm ² | 0.528 in | 1592.4 lb/10000 ft |
| 1135505 | ÖLFLEX® CLASSIC 110 CY 5G4 | 5 | Yes | 4 mm ² | 0.579 in | 1881.3 lb/10000 ft |
| 1135604 | ÖLFLEX® CLASSIC 110 CY 4G6 | 4 | Yes | 6 mm ² | 0.622 in | 2136.6 lb/10000 ft |
| 1135605 | ÖLFLEX® CLASSIC 110 CY 5G6 | 5 | Yes | 6 mm ² | 0.681 in | 2963.38 lb/10000 ft |
| 1135607 | ÖLFLEX® CLASSIC 110 CY 7G6 | 7 | Yes | 6 mm ² | 0.74 in | 3561.1 lb/10000 ft |
| 1135614 | ÖLFLEX® CLASSIC 110 CY 4G10 | 4 | Yes | 10 mm ² | 0.748 in | 3480.4 lb/10000 ft |
| 1135615 | ÖLFLEX® CLASSIC 110 CY 3G10 | 3 | Yes | 10 mm ² | 0.685 in | 2435.21 lb/10000 ft |
| 1135616 | ÖLFLEX® CLASSIC 110 CY 5G10 | 5 | Yes | 10 mm ² | 0.839 in | 3998.21 lb/10000 ft |
| 1135617 | ÖLFLEX® CLASSIC 110 CY 7G10 | 7 | Yes | 10 mm ² | 0.913 in | 5348.87 lb/10000 ft |
| 1135623 | ÖLFLEX® CLASSIC 110 CY 5G16 | 5 | Yes | 16 mm ² | 0.961 in | 6282.8 lb/10000 ft |
| 1135624 | ÖLFLEX® CLASSIC 110 CY 4G16 | 4 | Yes | 16 mm ² | 0.874 in | 5402.1 lb/10000 ft |
| 1135625 | ÖLFLEX® CLASSIC 110 CY 4G35 | 4 | Yes | 35 mm ² | 1.189 in | 10367.4 lb/10000 ft |
| 1135626 | ÖLFLEX® CLASSIC 110 CY 4G25 | 4 | Yes | 25 mm ² | 1.059 in | 7800.8 lb/10000 ft |
| 1135627 | ÖLFLEX® CLASSIC 110 CY 5G25 | 5 | Yes | 25 mm ² | 1.181 in | 9407.56 lb/10000 ft |
| 1135628 | ÖLFLEX® CLASSIC 110 CY 5G35 | 5 | Yes | 35 mm ² | 1.307 in | 12774.13 lb/10000 ft |
| 1135702 | ÖLFLEX® CLASSIC 110 CY 2X10 | 2 | No | 10 mm ² | 0.646 in | 1720.24 lb/10000 ft |
| 1135752 | ÖLFLEX® CLASSIC 110 CY 2X0,5 | 2 | No | 0.5 mm ² | 0.276 in | 275.5 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|--------------------------------|-----------------|-----------------------------|--|------------------------|---------------------|
| 1135753 | ÖLFLEX® CLASSIC 110 CY 3X0,5 | 3 | No | 0.5 mm ² | 0.287 in | 305.7 lb/10000 ft |
| 1135754 | ÖLFLEX® CLASSIC 110 CY 4X0,5 | 4 | No | 0.5 mm ² | 0.311 in | 369.5 lb/10000 ft |
| 1135755 | ÖLFLEX® CLASSIC 110 CY 5X0,5 | 5 | No | 0.5 mm ² | 0.331 in | 443.5 lb/10000 ft |
| 1135757 | ÖLFLEX® CLASSIC 110 CY 7X0,5 | 7 | No | 0.5 mm ² | 0.35 in | 540.93 lb/10000 ft |
| 1135762 | ÖLFLEX® CLASSIC 110 CY 12X0,5 | 12 | No | 0.5 mm ² | 0.445 in | 930.6 lb/10000 ft |
| 1135802 | ÖLFLEX® CLASSIC 110 CY 2X0,75 | 2 | No | 0.75 mm ² | 0.291 in | 309.1 lb/10000 ft |
| 1135803 | ÖLFLEX® CLASSIC 110 CY 3X0,75 | 3 | No | 0.75 mm ² | 0.311 in | 389 lb/10000 ft |
| 1135804 | ÖLFLEX® CLASSIC 110 CY 4X0,75 | 4 | No | 0.75 mm ² | 0.331 in | 430 lb/10000 ft |
| 1135805 | ÖLFLEX® CLASSIC 110 CY 5X0,75 | 5 | No | 0.75 mm ² | 0.35 in | 520.1 lb/10000 ft |
| 1135807 | ÖLFLEX® CLASSIC 110 CY 7X0,75 | 7 | No | 0.75 mm ² | 0.382 in | 685.41 lb/10000 ft |
| 1135812 | ÖLFLEX® CLASSIC 110 CY 12X0,75 | 12 | No | 0.75 mm ² | 0.484 in | 1189.3 lb/10000 ft |
| 1135818 | ÖLFLEX® CLASSIC 110 CY 18X0,75 | 18 | No | 0.75 mm ² | 0.571 in | 1632.7 lb/10000 ft |
| 1135840 | ÖLFLEX® CLASSIC 110 CY 40X0,75 | 40 | No | 0.75 mm ² | 0.807 in | 2482.25 lb/10000 ft |
| 1135852 | ÖLFLEX® CLASSIC 110 CY 2X1 | 2 | No | 1 mm ² | 0.311 in | 376.3 lb/10000 ft |
| 1135853 | ÖLFLEX® CLASSIC 110 CY 3X1 | 3 | No | 1 mm ² | 0.323 in | 438.8 lb/10000 ft |
| 1135854 | ÖLFLEX® CLASSIC 110 CY 4X1 | 4 | No | 1 mm ² | 0.343 in | 524.8 lb/10000 ft |
| 1135902 | ÖLFLEX® CLASSIC 110 CY 2X1,5 | 2 | No | 1.5 mm ² | 0.335 in | 436.7 lb/10000 ft |
| 1135903 | ÖLFLEX® CLASSIC 110 CY 3X1,5 | 3 | No | 1.5 mm ² | 0.35 in | 557.73 lb/10000 ft |
| 1135904 | ÖLFLEX® CLASSIC 110 CY 4X1,5 | 4 | No | 1.5 mm ² | 0.378 in | 671.9 lb/10000 ft |
| 1135905 | ÖLFLEX® CLASSIC 110 CY 5X1,5 | 5 | No | 1.5 mm ² | 0.406 in | 839.96 lb/10000 ft |
| 1135907 | ÖLFLEX® CLASSIC 110 CY 7X1,5 | 7 | No | 1.5 mm ² | 0.445 in | 1001.1 lb/10000 ft |

V1.1