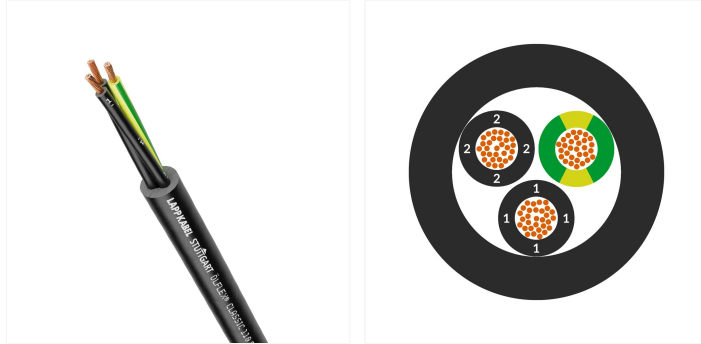


ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G6

Article No.: 1120366

Power and control cable; 4G6; U_0/U : 0,6/1 kV; PVC; Core identification: Numbers; Flexible



CE



Details

Benefits

- Weatherproof and therefore well suited for outdoor use.
- Very robust due to reinforced outer jacket with a wall thickness of at least 1.8 mm (0.07 in).
- High electrical safety thanks to 4000 V test voltage.
- 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 circuits that require a higher nominal voltage due to their installation.
- Cable design also suitable for torsion applications in wind turbines.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp rooms.
- Suitable for medium mechanical stress.
- The PVC outer jacket is resistant to acids and alkaline solutions and has limited oil resistance.
- 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.

Remarks

Technical Data

General information

| | |
|------------------|--|
| Brand | ÖLFLEX® |
| Product type | Power and control cable |
| Copper index | 1545.4 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 Solar |

Electrical parameters

| | |
|-----------------|--|
| Nominal voltage | U_0/U : 0,6/1 kV AC rms according to IEC |
| test voltage | 4 kV |

Product design

| | |
|--|------------------------------|
| Cable dimension | 4G6 |
| 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 | 4 |
| Stranding type | Layered Stranding |
| Shielded | No |
| With armoring | No |
| Nominal outer diameter | 0.594 in |
| Cable form | Round |
| Core insulation base material | Polyvinylchloride |
| Conductor insulation basic material, short form | PVC |
| Basic material of outer jacket | Polyvinylchloride |
| Base material of outer sheath, shortname | PVC |
| With reinforced outer jacket | Yes |
| Outer jacket color | black |

| | |
|--|--|
| 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 | Yes |
| Minimum bending radius, stationary | 4 x outer diameter |
| Minimum bending radius in inch, fixed installation | 2.378 in |
| Minimum bending radius, occasionally moved | 15 x outer diameter |
| Minimum bending radius in mm, occasionally moved | 8.917 in |
| Torsion | For +/- 150 °/m and min. 5 °C up to 5000 Torsion cycles For +/- 150 °/m and min. -20 °C up to 2000 Torsion cycles |
| 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 | Yes |
| UV-resistant according to | DIN EN ISO 4892-2 method A EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use) |
| Ozone-resistant | Yes |
| ozone resistant according to | EN 50396, method B |
| 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 | EA3C RU C-DE.AIO64.B.00091/19 |
| VDE certified | No |
| DNV-certified | No |
| CPR fire class | Eca |
| Resistance to flame propagation tested according to UN/ECE-R118 | No |
| Ecolab certified | No |

ÖLFLEX® CLASSIC 110 BLACK 0,6/1 kV

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|---|-----------------|-----------------------------|--|------------------------|---------------------|
| 1120232 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X0,75 | 2 | No | 0.75 mm ² | 0.327 in | 96.76 lb/10000 ft |
| 1120233 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G0,75 | 3 | Yes | 0.75 mm ² | 0.343 in | 145.15 lb/10000 ft |
| 1120234 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X0,75 | 3 | No | 0.75 mm ² | 0.343 in | 145.15 lb/10000 ft |
| 1120235 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G0,75 | 4 | Yes | 0.75 mm ² | 0.362 in | 194.87 lb/10000 ft |
| 1120237 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G0,75 | 5 | Yes | 0.75 mm ² | 0.39 in | 241.91 lb/10000 ft |
| 1120241 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G0,75 | 7 | Yes | 0.75 mm ² | 0.421 in | 342.7 lb/10000 ft |
| 1120248 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G0,75 | 12 | Yes | 0.75 mm ² | 0.528 in | 577.89 lb/10000 ft |
| 1120251 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G0,75 | 18 | Yes | 0.75 mm ² | 0.606 in | 873.56 lb/10000 ft |
| 1120259 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 41G0,75 | 41 | Yes | 0.75 mm ² | 0.85 in | 1989.03 lb/10000 ft |
| 1120266 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X1 | 2 | No | 1 mm ² | 0.339 in | 129.02 lb/10000 ft |
| 1120267 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G1 | 3 | Yes | 1 mm ² | 0.354 in | 194.87 lb/10000 ft |
| 1120268 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X1 | 3 | No | 1 mm ² | 0.354 in | 194.87 lb/10000 ft |
| 1120269 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G1 | 4 | Yes | 1 mm ² | 0.378 in | 258.04 lb/10000 ft |
| 1120270 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4X1 | 4 | No | 1 mm ² | 0.378 in | 258.04 lb/10000 ft |
| 1120271 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G1 | 5 | Yes | 1 mm ² | 0.409 in | 322.55 lb/10000 ft |
| 1120274 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G1 | 7 | Yes | 1 mm ² | 0.437 in | 450.22 lb/10000 ft |
| 1120280 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G1 | 12 | Yes | 1 mm ² | 0.551 in | 779.48 lb/10000 ft |
| 1120284 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G1 | 18 | Yes | 1 mm ² | 0.634 in | 1162.51 lb/10000 ft |
| 1120290 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 25G1 | 25 | Yes | 1 mm ² | 0.732 in | 1612.73 lb/10000 ft |
| 1120294 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 34G1 | 34 | Yes | 1 mm ² | 0.839 in | 2190.62 lb/10000 ft |
| 1120298 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 41G1 | 41 | Yes | 1 mm ² | 0.913 in | 2647.56 lb/10000 ft |
| 1120306 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X1,5 | 2 | No | 1.5 mm ² | 0.378 in | 194.87 lb/10000 ft |
| 1120307 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G1,5 | 3 | Yes | 1.5 mm ² | 0.398 in | 288.95 lb/10000 ft |
| 1120308 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X1,5 | 3 | No | 1.5 mm ² | 0.398 in | 288.95 lb/10000 ft |
| 1120309 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G1,5 | 4 | Yes | 1.5 mm ² | 0.425 in | 389.74 lb/10000 ft |
| 1120311 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G1,5 | 5 | Yes | 1.5 mm ² | 0.461 in | 483.82 lb/10000 ft |
| 1120314 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G1,5 | 7 | Yes | 1.5 mm ² | 0.496 in | 678.6 lb/10000 ft |
| 1120320 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G1,5 | 12 | Yes | 1.5 mm ² | 0.634 in | 1162.51 lb/10000 ft |
| 1120322 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 14G1,5 | 14 | Yes | 1.5 mm ² | 0.669 in | 1357.38 lb/10000 ft |
| 1120324 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G1,5 | 18 | Yes | 1.5 mm ² | 0.74 in | 1740.4 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|--|-----------------|-----------------------------|--|------------------------|----------------------|
| 1120328 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 25G1,5 | 25 | Yes | 1.5 mm ² | 0.854 in | 2419.09 lb/10000 ft |
| 1120330 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 34G1,5 | 34 | Yes | 1.5 mm ² | 0.98 in | 3292.65 lb/10000 ft |
| 1120333 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 50G1,5 | 50 | Yes | 1.5 mm ² | 1.173 in | 4838.18 lb/10000 ft |
| 1120339 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X2,5 | 2 | No | 2.5 mm ² | 0.425 in | 322.55 lb/10000 ft |
| 1120340 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G2,5 | 3 | Yes | 2.5 mm ² | 0.445 in | 483.8 lb/10000 ft |
| 1120342 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G2,5 | 4 | Yes | 2.5 mm ² | 0.48 in | 645.09 lb/10000 ft |
| 1120343 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4X2,5 | 4 | No | 2.5 mm ² | 0.48 in | 645.09 lb/10000 ft |
| 1120344 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G2,5 | 5 | Yes | 2.5 mm ² | 0.524 in | 806.36 lb/10000 ft |
| 1120346 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G2,5 | 7 | Yes | 2.5 mm ² | 0.567 in | 1128.91 lb/10000 ft |
| 1120349 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G2,5 | 12 | Yes | 2.5 mm ² | 0.736 in | 1935.27 lb/10000 ft |
| 1120350 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 14G2,5 | 14 | Yes | 2.5 mm ² | 0.78 in | 2257.82 lb/10000 ft |
| 1120351 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G2,5 | 18 | Yes | 2.5 mm ² | 0.866 in | 2902.91 lb/10000 ft |
| 1120353 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 25G2,5 | 25 | Yes | 2.5 mm ² | 1.016 in | 4031.81 lb/10000 ft |
| 1120360 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G4 | 4 | Yes | 4 mm ² | 0.543 in | 1034.83 lb/10000 ft |
| 1120361 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G4 | 5 | Yes | 4 mm ² | 0.594 in | 1290.18 lb/10000 ft |
| 1120362 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G4 | 7 | Yes | 4 mm ² | 0.646 in | 1807.6 lb/10000 ft |
| 1120366 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G6 | 4 | Yes | 6 mm ² | 0.594 in | 1545.4 lb/10000 ft |
| 1120367 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G6 | 5 | Yes | 6 mm ² | 0.661 in | 1935.27 lb/10000 ft |
| 1120368 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G6 | 7 | Yes | 6 mm ² | 0.717 in | 2708.03 lb/10000 ft |
| 1120370 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G10 | 4 | Yes | 10 mm ² | 0.736 in | 2580.1 lb/10000 ft |
| 1120371 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G10 | 5 | Yes | 10 mm ² | 0.815 in | 3225.45 lb/10000 ft |
| 1120374 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G16 | 4 | Yes | 16 mm ² | 0.839 in | 4125.85 lb/10000 ft |
| 1120375 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G16 | 5 | Yes | 16 mm ² | 0.929 in | 5160.72 lb/10000 ft |
| 1120376 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G16 | 7 | Yes | 16 mm ² | 1.031 in | 7223.66 lb/10000 ft |
| 1120378 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G25 | 4 | Yes | 25 mm ² | 1.031 in | 6450.94 lb/10000 ft |
| 1120379 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G25 | 5 | Yes | 25 mm ² | 1.142 in | 8063.63 lb/10000 ft |
| 1120382 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G35 | 4 | Yes | 35 mm ² | 1.146 in | 9031.26 lb/10000 ft |
| 1120383 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G35 | 5 | Yes | 35 mm ² | 1.28 in | 11289.08 lb/10000 ft |
| 1120385 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G50 | 4 | Yes | 50 mm ² | 1.402 in | 12900.5 lb/10000 ft |
| 1120387 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G70 | 4 | Yes | 70 mm ² | 1.602 in | 18062.52 lb/10000 ft |

| Article No. | Name | Number of cores | Including protective ground | Nominal cross section conductor (mm ²) | Nominal outer diameter | Copper index |
|-------------|---|-----------------|-----------------------------|--|------------------------|---------------------|
| 1120389 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G95 | 4 | Yes | 95 mm ² | 1.843 in | 24510.9 lb/10000 ft |
| 1120390 | ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G120 | 4 | Yes | 120 mm ² | 2.106 in | 30961.2 lb/10000 ft |

V1.1