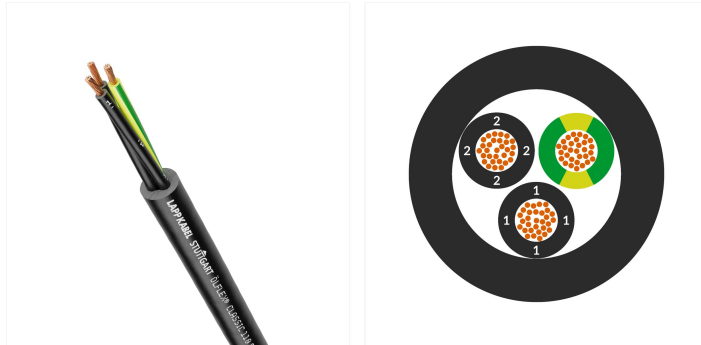


## ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G1,5

**Article No.:** 1120309

Power and control cable; 4G1.5;  $U_0/U$ : 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	389.74 lb/10000 ft
Industry segment	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

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**Product design**

Cable dimension	4G1.5
Nominal cross section conductor (mm <sup>2</sup> )	1.5 mm <sup>2</sup>
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	0.425 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

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**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	1.701 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	6.378 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.A1064.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 <sup>2</sup> )	Nominal outer diameter	Copper index
1120232	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X0,75	2	No	0.75 mm <sup>2</sup>	0.327 in	96.76 lb/10000 ft
1120233	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G0,75	3	Yes	0.75 mm <sup>2</sup>	0.343 in	145.15 lb/10000 ft
1120234	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X0,75	3	No	0.75 mm <sup>2</sup>	0.343 in	145.15 lb/10000 ft
1120235	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G0,75	4	Yes	0.75 mm <sup>2</sup>	0.362 in	194.87 lb/10000 ft
1120237	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G0,75	5	Yes	0.75 mm <sup>2</sup>	0.39 in	241.91 lb/10000 ft
1120241	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G0,75	7	Yes	0.75 mm <sup>2</sup>	0.421 in	342.7 lb/10000 ft
1120248	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G0,75	12	Yes	0.75 mm <sup>2</sup>	0.528 in	577.89 lb/10000 ft
1120251	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G0,75	18	Yes	0.75 mm <sup>2</sup>	0.606 in	873.56 lb/10000 ft
1120259	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 41G0,75	41	Yes	0.75 mm <sup>2</sup>	0.85 in	1989.03 lb/10000 ft
1120266	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X1	2	No	1 mm <sup>2</sup>	0.339 in	129.02 lb/10000 ft
1120267	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G1	3	Yes	1 mm <sup>2</sup>	0.354 in	194.87 lb/10000 ft
1120268	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X1	3	No	1 mm <sup>2</sup>	0.354 in	194.87 lb/10000 ft
1120269	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G1	4	Yes	1 mm <sup>2</sup>	0.378 in	258.04 lb/10000 ft
1120270	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4X1	4	No	1 mm <sup>2</sup>	0.378 in	258.04 lb/10000 ft
1120271	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G1	5	Yes	1 mm <sup>2</sup>	0.409 in	322.55 lb/10000 ft
1120274	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G1	7	Yes	1 mm <sup>2</sup>	0.437 in	450.22 lb/10000 ft
1120280	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G1	12	Yes	1 mm <sup>2</sup>	0.551 in	779.48 lb/10000 ft
1120284	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G1	18	Yes	1 mm <sup>2</sup>	0.634 in	1162.51 lb/10000 ft
1120290	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 25G1	25	Yes	1 mm <sup>2</sup>	0.732 in	1612.73 lb/10000 ft
1120294	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 34G1	34	Yes	1 mm <sup>2</sup>	0.839 in	2190.62 lb/10000 ft
1120298	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 41G1	41	Yes	1 mm <sup>2</sup>	0.913 in	2647.56 lb/10000 ft
1120306	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 2X1,5	2	No	1.5 mm <sup>2</sup>	0.378 in	194.87 lb/10000 ft
1120307	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3G1,5	3	Yes	1.5 mm <sup>2</sup>	0.398 in	288.95 lb/10000 ft
1120308	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 3X1,5	3	No	1.5 mm <sup>2</sup>	0.398 in	288.95 lb/10000 ft
1120309	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 4G1,5	4	Yes	1.5 mm <sup>2</sup>	0.425 in	389.74 lb/10000 ft
1120311	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 5G1,5	5	Yes	1.5 mm <sup>2</sup>	0.461 in	483.82 lb/10000 ft
1120314	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 7G1,5	7	Yes	1.5 mm <sup>2</sup>	0.496 in	678.6 lb/10000 ft
1120320	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 12G1,5	12	Yes	1.5 mm <sup>2</sup>	0.634 in	1162.51 lb/10000 ft
1120322	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 14G1,5	14	Yes	1.5 mm <sup>2</sup>	0.669 in	1357.38 lb/10000 ft
1120324	ÖLFLEX® CLASSIC 110 Black 0,6/1kV 18G1,5	18	Yes	1.5 mm <sup>2</sup>	0.74 in	1740.4 lb/10000 ft

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

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

V1.1