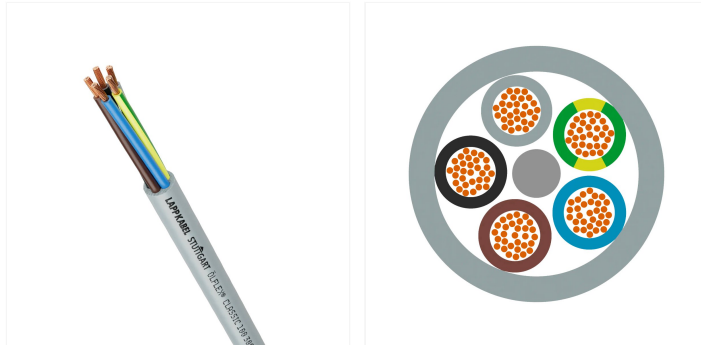


## ÖLFLEX® CLASSIC 100 300/500V 3G2,5

**Article No.:** 1120801

Power and control cable; 3G2.5;  $U_0/U$ : 300/500 V; PVC; Core identification: Colors; Flexible



CE



### Details

#### Benefits

- Numerous dimensions available for wide range of applications.
- Space-saving due to reduced wall thicknesses.
- High electrical safety thanks to 4000 V test voltage.
- High-quality alternative to control cable types YSLY or YY
- 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.
- Cable design also suitable for torsion applications in wind turbines.
- 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	483.82 lb/10000 ft
Industry segment	<ul style="list-style-type: none"> <li>Agricultural &amp; Farm Machinery</li> <li>Assembly Machines</li> <li>Automotive</li> <li>Construction Machinery</li> <li>Energy</li> <li>Food &amp; Beverage</li> <li>Healthcare &amp; Pharma</li> <li>Heating, Ventilation, Air Conditioning &amp; Refrigeration</li> <li>Intralogistics &amp; Material handling</li> <li>Lifts &amp; Elevators</li> <li>Machine Tools</li> <li>Process Industry</li> <li>Robotics</li> <li>Rolling Stock</li> <li>Ships &amp; boats</li> <li>Solar</li> </ul>

**Electrical parameters**

Nominal voltage	$U_0/U$ : 300/500 V AC rms according to IEC
test voltage	4 kV

**Product design**

Cable dimension	3G2.5
Nominal cross section conductor (mm <sup>2</sup> )	2.5 mm <sup>2</sup>
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	Yes
Number of cores	3
Stranding type	Layered Stranding
Shielded	No
With armoring	No
Nominal outer diameter	0.319 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
Outer jacket color	gray
Core identification	Colors
Conductor color code	VDE 0293-1 VDE 0293-308

**Product features**

Application area	Flexible Fixed Installation Torsion
For torsional load	Yes
Minimum bending radius, stationary	4 x outer diameter

Minimum bending radius in inch, fixed installation	1.276 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	4.783 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	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	No
CPR fire class	Eca
Resistance to flame propagation tested according to UN/ECE-R118	No

**ÖLFLEX® CLASSIC 100 300/500 V**

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm <sup>2</sup> )	Nominal outer diameter	Copper index
0010004	ÖLFLEX® CLASSIC 100 300/500V 2X0,5	2	No	0.5 mm <sup>2</sup>	0.189 in	64.5 lb/10000 ft
0010014	ÖLFLEX® CLASSIC 100 300/500V 3G0,5	3	Yes	0.5 mm <sup>2</sup>	0.201 in	96.75 lb/10000 ft
0010024	ÖLFLEX® CLASSIC 100 300/500V 4G0,5	4	Yes	0.5 mm <sup>2</sup>	0.224 in	129 lb/10000 ft
0010034	ÖLFLEX® CLASSIC 100 300/500V 5G0,5	5	Yes	0.5 mm <sup>2</sup>	0.244 in	161.25 lb/10000 ft
0010004	ÖLFLEX® CLASSIC 100 300/500V 6G0,5	6	Yes	0.5 mm <sup>2</sup>	0.264 in	193.5 lb/10000 ft
0010005	ÖLFLEX® CLASSIC 100 300/500V 7G0,5	7	Yes	0.5 mm <sup>2</sup>	0.264 in	225.8 lb/10000 ft
0010006	ÖLFLEX® CLASSIC 100 300/500V 8G0,5	8	Yes	0.5 mm <sup>2</sup>	0.315 in	258 lb/10000 ft
0010007	ÖLFLEX® CLASSIC 100 300/500V 10G0,5	10	Yes	0.5 mm <sup>2</sup>	0.339 in	322.5 lb/10000 ft
0010008	ÖLFLEX® CLASSIC 100 300/500V 12G0,5	12	Yes	0.5 mm <sup>2</sup>	0.35 in	389.74 lb/10000 ft
0010009	ÖLFLEX® CLASSIC 100 300/500V 14G0,5	14	Yes	0.5 mm <sup>2</sup>	0.374 in	450.17 lb/10000 ft
0010010	ÖLFLEX® CLASSIC 100 300/500V 16G0,5	16	Yes	0.5 mm <sup>2</sup>	0.394 in	510.7 lb/10000 ft
0010011	ÖLFLEX® CLASSIC 100 300/500V 21G0,5	21	Yes	0.5 mm <sup>2</sup>	0.461 in	665.2 lb/10000 ft
0010012	ÖLFLEX® CLASSIC 100 300/500V 24G0,5	24	Yes	0.5 mm <sup>2</sup>	0.488 in	766 lb/10000 ft
0010016	ÖLFLEX® CLASSIC 100 300/500V 40G0,5	40	Yes	0.5 mm <sup>2</sup>	0.606 in	1290.18 lb/10000 ft
00100214	ÖLFLEX® CLASSIC 100 300/500V 2X0,75	2	No	0.75 mm <sup>2</sup>	0.213 in	96.8 lb/10000 ft
00100224	ÖLFLEX® CLASSIC 100 300/500V 3G0,75	3	Yes	0.75 mm <sup>2</sup>	0.224 in	145.1 lb/10000 ft
00100234	ÖLFLEX® CLASSIC 100 300/500V 4G0,75	4	Yes	0.75 mm <sup>2</sup>	0.244 in	193.5 lb/10000 ft
00100244	ÖLFLEX® CLASSIC 100 300/500V 5G0,75	5	Yes	0.75 mm <sup>2</sup>	0.264 in	241.91 lb/10000 ft
0010025	ÖLFLEX® CLASSIC 100 300/500V 6G0,75	6	Yes	0.75 mm <sup>2</sup>	0.287 in	290.9 lb/10000 ft
0010026	ÖLFLEX® CLASSIC 100 300/500V 7G0,75	7	Yes	0.75 mm <sup>2</sup>	0.287 in	338.6 lb/10000 ft
0010027	ÖLFLEX® CLASSIC 100 300/500V 8G0,75	8	Yes	0.75 mm <sup>2</sup>	0.346 in	376.3 lb/10000 ft
0010028	ÖLFLEX® CLASSIC 100 300/500V 9G0,75	9	Yes	0.75 mm <sup>2</sup>	0.37 in	423.3 lb/10000 ft
0010029	ÖLFLEX® CLASSIC 100 300/500V 10G0,75	10	Yes	0.75 mm <sup>2</sup>	0.378 in	483.8 lb/10000 ft
0010030	ÖLFLEX® CLASSIC 100 300/500V 12G0,75	12	Yes	0.75 mm <sup>2</sup>	0.39 in	580.5 lb/10000 ft
0010031	ÖLFLEX® CLASSIC 100 300/500V 15G0,75	15	Yes	0.75 mm <sup>2</sup>	0.429 in	725.7 lb/10000 ft
0010032	ÖLFLEX® CLASSIC 100 300/500V 18G0,75	18	Yes	0.75 mm <sup>2</sup>	0.461 in	870.8 lb/10000 ft
0010033	ÖLFLEX® CLASSIC 100 300/500V 21G0,75	21	Yes	0.75 mm <sup>2</sup>	0.512 in	1014.6 lb/10000 ft
0010034	ÖLFLEX® CLASSIC 100 300/500V 25G0,75	25	Yes	0.75 mm <sup>2</sup>	0.543 in	1209.54 lb/10000 ft
0010036	ÖLFLEX® CLASSIC 100 300/500V 40G0,75	40	Yes	0.75 mm <sup>2</sup>	0.681 in	1935.27 lb/10000 ft
0010037	ÖLFLEX® CLASSIC 100 300/500V 50G0,75	50	Yes	0.75 mm <sup>2</sup>	0.756 in	2418.8 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
00100414	ÖLFLEX® CLASSIC 100 300/500V 2X1	2	No	1 mm <sup>2</sup>	0.224 in	129 lb/10000 ft
00100424	ÖLFLEX® CLASSIC 100 300/500V 3G1	3	Yes	1 mm <sup>2</sup>	0.236 in	193.5 lb/10000 ft
00100434	ÖLFLEX® CLASSIC 100 300/500V 4G1	4	Yes	1 mm <sup>2</sup>	0.256 in	258 lb/10000 ft
00100444	ÖLFLEX® CLASSIC 100 300/500V 5G1	5	Yes	1 mm <sup>2</sup>	0.28 in	322.5 lb/10000 ft
0010045	ÖLFLEX® CLASSIC 100 300/500V 6G1	6	Yes	1 mm <sup>2</sup>	0.315 in	389.74 lb/10000 ft
0010046	ÖLFLEX® CLASSIC 100 300/500V 7G1	7	Yes	1 mm <sup>2</sup>	0.315 in	450.22 lb/10000 ft
0010047	ÖLFLEX® CLASSIC 100 300/500V 8G1	8	Yes	1 mm <sup>2</sup>	0.374 in	517.42 lb/10000 ft
0010049	ÖLFLEX® CLASSIC 100 300/500V 10G1	10	Yes	1 mm <sup>2</sup>	0.402 in	645 lb/10000 ft
0010050	ÖLFLEX® CLASSIC 100 300/500V 12G1	12	Yes	1 mm <sup>2</sup>	0.413 in	772.76 lb/10000 ft
0010052	ÖLFLEX® CLASSIC 100 300/500V 16G1	16	Yes	1 mm <sup>2</sup>	0.465 in	1034.83 lb/10000 ft
0010053	ÖLFLEX® CLASSIC 100 300/500V 18G1	18	Yes	1 mm <sup>2</sup>	0.5 in	1162.4 lb/10000 ft
0010054	ÖLFLEX® CLASSIC 100 300/500V 20G1	20	Yes	1 mm <sup>2</sup>	0.528 in	1290 lb/10000 ft
0010056	ÖLFLEX® CLASSIC 100 300/500V 25G1	25	Yes	1 mm <sup>2</sup>	0.579 in	1612.73 lb/10000 ft
00100634	ÖLFLEX® CLASSIC 100 300/500V 2X1,5	2	No	1.5 mm <sup>2</sup>	0.248 in	193.5 lb/10000 ft
00100644	ÖLFLEX® CLASSIC 100 300/500V 3G1,5	3	Yes	1.5 mm <sup>2</sup>	0.264 in	290.26 lb/10000 ft
00100654	ÖLFLEX® CLASSIC 100 300/500V 4G1,5	4	Yes	1.5 mm <sup>2</sup>	0.283 in	387 lb/10000 ft
00100664	ÖLFLEX® CLASSIC 100 300/500V 5G1,5	5	Yes	1.5 mm <sup>2</sup>	0.319 in	483.8 lb/10000 ft
0010068	ÖLFLEX® CLASSIC 100 300/500V 7G1,5	7	Yes	1.5 mm <sup>2</sup>	0.35 in	678.69 lb/10000 ft
0010069	ÖLFLEX® CLASSIC 100 300/500V 8G1,5	8	Yes	1.5 mm <sup>2</sup>	0.417 in	772.7 lb/10000 ft
0010071	ÖLFLEX® CLASSIC 100 300/500V 12G1,5	12	Yes	1.5 mm <sup>2</sup>	0.472 in	1162.51 lb/10000 ft
0010072	ÖLFLEX® CLASSIC 100 300/500V 14G1,5	14	Yes	1.5 mm <sup>2</sup>	0.5 in	1357.2 lb/10000 ft
0010074	ÖLFLEX® CLASSIC 100 300/500V 18G1,5	18	Yes	1.5 mm <sup>2</sup>	0.567 in	1740.4 lb/10000 ft
0010076	ÖLFLEX® CLASSIC 100 300/500V 25G1,5	25	Yes	1.5 mm <sup>2</sup>	0.665 in	2419.09 lb/10000 ft
00101224	ÖLFLEX® CLASSIC 100 300/500V 3X0,5	3	No	0.5 mm <sup>2</sup>	0.201 in	96.77 lb/10000 ft
00101234	ÖLFLEX® CLASSIC 100 300/500V 4X0,5	4	No	0.5 mm <sup>2</sup>	0.224 in	129 lb/10000 ft
00101244	ÖLFLEX® CLASSIC 100 300/500V 5X0,5	5	No	0.5 mm <sup>2</sup>	0.244 in	161.27 lb/10000 ft
00101254	ÖLFLEX® CLASSIC 100 300/500V 3X0,75	3	No	0.75 mm <sup>2</sup>	0.224 in	145.1 lb/10000 ft
00101264	ÖLFLEX® CLASSIC 100 300/500V 4X0,75	4	No	0.75 mm <sup>2</sup>	0.244 in	193.5 lb/10000 ft
00101274	ÖLFLEX® CLASSIC 100 300/500V 5X0,75	5	No	0.75 mm <sup>2</sup>	0.264 in	241.9 lb/10000 ft
00101284	ÖLFLEX® CLASSIC 100 300/500V 3X1,5	3	No	1.5 mm <sup>2</sup>	0.264 in	290.3 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
00101294	ÖLFLEX® CLASSIC 100 300/500V 4X1,5	4	No	1.5 mm <sup>2</sup>	0.283 in	387 lb/10000 ft
00101304	ÖLFLEX® CLASSIC 100 300/500V 5X1,5	5	No	1.5 mm <sup>2</sup>	0.319 in	483.8 lb/10000 ft
00102034	ÖLFLEX® CLASSIC 100 300/500V 3X1	3	No	1 mm <sup>2</sup>	0.236 in	193.5 lb/10000 ft
00102044	ÖLFLEX® CLASSIC 100 300/500V 4X1	4	No	1 mm <sup>2</sup>	0.256 in	258 lb/10000 ft
00102054	ÖLFLEX® CLASSIC 100 300/500V 5X1	5	No	1 mm <sup>2</sup>	0.28 in	322.55 lb/10000 ft
1120800	ÖLFLEX® CLASSIC 100 300/500V 2X2,5	2	No	2.5 mm <sup>2</sup>	0.295 in	322.5 lb/10000 ft
1120801	ÖLFLEX® CLASSIC 100 300/500V 3G2,5	3	Yes	2.5 mm <sup>2</sup>	0.319 in	483.82 lb/10000 ft
1120802	ÖLFLEX® CLASSIC 100 300/500V 4G2,5	4	Yes	2.5 mm <sup>2</sup>	0.35 in	645.09 lb/10000 ft
1120803	ÖLFLEX® CLASSIC 100 300/500V 5G2,5	5	Yes	2.5 mm <sup>2</sup>	0.394 in	806.36 lb/10000 ft
1120804	ÖLFLEX® CLASSIC 100 300/500V 7G2,5	7	Yes	2.5 mm <sup>2</sup>	0.437 in	1128.91 lb/10000 ft
1120805	ÖLFLEX® CLASSIC 100 300/500V 2X4	2	No	4 mm <sup>2</sup>	0.362 in	517.42 lb/10000 ft
1120806	ÖLFLEX® CLASSIC 100 300/500V 3G4	3	Yes	4 mm <sup>2</sup>	0.39 in	774.11 lb/10000 ft
1120807	ÖLFLEX® CLASSIC 100 300/500V 4G4	4	Yes	4 mm <sup>2</sup>	0.425 in	1032.14 lb/10000 ft
1120808	ÖLFLEX® CLASSIC 100 300/500V 5G4	5	Yes	4 mm <sup>2</sup>	0.476 in	1290.17 lb/10000 ft
1120811	ÖLFLEX® CLASSIC 100 300/500V 4G6	4	Yes	6 mm <sup>2</sup>	0.512 in	1545.52 lb/10000 ft
1120812	ÖLFLEX® CLASSIC 100 300/500V 5G6	5	Yes	6 mm <sup>2</sup>	0.571 in	1935.26 lb/10000 ft
1120815	ÖLFLEX® CLASSIC 100 300/500V 4G10	4	Yes	10 mm <sup>2</sup>	0.638 in	2580.36 lb/10000 ft
1120816	ÖLFLEX® CLASSIC 100 300/500V 5G10	5	Yes	10 mm <sup>2</sup>	0.713 in	3225.45 lb/10000 ft
1120818	ÖLFLEX® CLASSIC 100 300/500V 4G16	4	Yes	16 mm <sup>2</sup>	0.74 in	4128.58 lb/10000 ft
1120819	ÖLFLEX® CLASSIC 100 300/500V 5G16	5	Yes	16 mm <sup>2</sup>	0.835 in	5160.72 lb/10000 ft
1120821	ÖLFLEX® CLASSIC 100 300/500V 4G25	4	Yes	25 mm <sup>2</sup>	0.925 in	6450.9 lb/10000 ft
1120822	ÖLFLEX® CLASSIC 100 300/500V 5G25	5	Yes	25 mm <sup>2</sup>	1.039 in	8063.63 lb/10000 ft
1120823	ÖLFLEX® CLASSIC 100 300/500V 3G35	3	Yes	35 mm <sup>2</sup>	0.933 in	6773.45 lb/10000 ft
1120824	ÖLFLEX® CLASSIC 100 300/500V 4G35	4	Yes	35 mm <sup>2</sup>	1.039 in	9031.26 lb/10000 ft
1120825	ÖLFLEX® CLASSIC 100 300/500V 5G35	5	Yes	35 mm <sup>2</sup>	1.165 in	11289.08 lb/10000 ft
1120827	ÖLFLEX® CLASSIC 100 300/500V 4G50	4	Yes	50 mm <sup>2</sup>	1.276 in	12901.8 lb/10000 ft

V1.1