

## ÖLFLEX® CLASSIC 400 P 41G1

**Article No.:** 1312241

Power and control cable; 41G1; gray; U<sub>0</sub>/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	2644.6 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	41G1
Nominal cross section conductor (mm <sup>2</sup> )	1 mm <sup>2</sup>
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	Yes
Number of cores	41
Stranding type	Layered Stranding
Shielded	No
Nominal outer diameter	0.74 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	2.961 in
Minimum bending radius, occasionally moved	12.5 x outer diameter
Minimum bending radius in mm, occasionally moved	9.252 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 <sup>2</sup> )	Outer jacket color	Nominal outer diameter	Copper index
1312003	ÖLFLEX® CLASSIC 400 P 3G0,5	3	Yes	0.5 mm <sup>2</sup>	gray	0.201 in	100.8 lb/10000 ft
1312004	ÖLFLEX® CLASSIC 400 P 4G0,5	4	Yes	0.5 mm <sup>2</sup>	gray	0.224 in	129 lb/10000 ft
1312005	ÖLFLEX® CLASSIC 400 P 5G0,5	5	Yes	0.5 mm <sup>2</sup>	gray	0.244 in	161.3 lb/10000 ft
1312007	ÖLFLEX® CLASSIC 400 P 7G0,5	7	Yes	0.5 mm <sup>2</sup>	gray	0.264 in	228.4 lb/10000 ft
1312010	ÖLFLEX® CLASSIC 400 P 10G0,5	10	Yes	0.5 mm <sup>2</sup>	gray	0.339 in	322.5 lb/10000 ft
1312012	ÖLFLEX® CLASSIC 400 P 12G0,5	12	Yes	0.5 mm <sup>2</sup>	gray	0.35 in	387 lb/10000 ft
1312018	ÖLFLEX® CLASSIC 400 P 18G0,5	18	Yes	0.5 mm <sup>2</sup>	gray	0.413 in	584.6 lb/10000 ft
1312025	ÖLFLEX® CLASSIC 400 P 25G0,5	25	Yes	0.5 mm <sup>2</sup>	gray	0.488 in	806.3 lb/10000 ft
1312034	ÖLFLEX® CLASSIC 400 P 34G0,5	34	Yes	0.5 mm <sup>2</sup>	gray	0.563 in	1101.9 lb/10000 ft
1312041	ÖLFLEX® CLASSIC 400 P 41G0,5	41	Yes	0.5 mm <sup>2</sup>	gray	0.618 in	1323.6 lb/10000 ft
1312103	ÖLFLEX® CLASSIC 400 P 3G0,75	3	Yes	0.75 mm <sup>2</sup>	gray	0.224 in	145.1 lb/10000 ft
1312104	ÖLFLEX® CLASSIC 400 P 4G0,75	4	Yes	0.75 mm <sup>2</sup>	gray	0.244 in	193.5 lb/10000 ft
1312105	ÖLFLEX® CLASSIC 400 P 5G0,75	5	Yes	0.75 mm <sup>2</sup>	gray	0.264 in	241.9 lb/10000 ft
1312107	ÖLFLEX® CLASSIC 400 P 7G0,75	7	Yes	0.75 mm <sup>2</sup>	gray	0.287 in	336 lb/10000 ft
1312110	ÖLFLEX® CLASSIC 400 P 10G0,75	10	Yes	0.75 mm <sup>2</sup>	gray	0.378 in	483.8 lb/10000 ft
1312112	ÖLFLEX® CLASSIC 400 P 12G0,75	12	Yes	0.75 mm <sup>2</sup>	gray	0.39 in	580.5 lb/10000 ft
1312118	ÖLFLEX® CLASSIC 400 P 18G0,75	18	Yes	0.75 mm <sup>2</sup>	gray	0.461 in	870.8 lb/10000 ft
1312125	ÖLFLEX® CLASSIC 400 P 25G0,75	25	Yes	0.75 mm <sup>2</sup>	gray	0.543 in	1209.4 lb/10000 ft
1312134	ÖLFLEX® CLASSIC 400 P 34G0,75	34	Yes	0.75 mm <sup>2</sup>	gray	0.626 in	1644.8 lb/10000 ft
1312141	ÖLFLEX® CLASSIC 400 P 41G0,75	41	Yes	0.75 mm <sup>2</sup>	gray	0.685 in	1983.4 lb/10000 ft
1312203	ÖLFLEX® CLASSIC 400 P 3G1	3	Yes	1 mm <sup>2</sup>	gray	0.236 in	193.5 lb/10000 ft
1312204	ÖLFLEX® CLASSIC 400 P 4G1	4	Yes	1 mm <sup>2</sup>	gray	0.256 in	258 lb/10000 ft
1312205	ÖLFLEX® CLASSIC 400 P 5G1	5	Yes	1 mm <sup>2</sup>	gray	0.28 in	322.5 lb/10000 ft
1312207	ÖLFLEX® CLASSIC 400 P 7G1	7	Yes	1 mm <sup>2</sup>	gray	0.315 in	450.2 lb/10000 ft
1312210	ÖLFLEX® CLASSIC 400 P 10G1	10	Yes	1 mm <sup>2</sup>	gray	0.402 in	645 lb/10000 ft
1312212	ÖLFLEX® CLASSIC 400 P 12G1	12	Yes	1 mm <sup>2</sup>	gray	0.413 in	772.7 lb/10000 ft
1312218	ÖLFLEX® CLASSIC 400 P 18G1	18	Yes	1 mm <sup>2</sup>	gray	0.5 in	1162.4 lb/10000 ft
1312225	ÖLFLEX® CLASSIC 400 P 25G1	25	Yes	1 mm <sup>2</sup>	gray	0.579 in	1612.56 lb/10000 ft

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

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

V1.1