

ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 18G1

Article No.: 1121284

Power and control cable; 18G1; U_0/U : 0,6/1 kV; PVC; Core identification: Numbers; Shielded; Flexible



CE



Details

Benefits

- Ideal protection against electromagnetic interference thanks to copper shielding braiding with a high degree of coverage.
- 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 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	1881.5 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 Solar

Electrical parameters

Nominal voltage	U_0/U : 0,6/1 kV AC rms according to IEC
Test voltage conductor/conductor	4 kV
Test voltage conductor/shielding	4 kV

Product design

Cable dimension	18G1
Nominal cross section conductor (mm ²)	1 mm ²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	Yes
Number of cores	18
Stranding type	Layered Stranding
Shielded	Yes
Type of overall shielding	Tin-plated copper braiding
With armoring	No
Nominal outer diameter	0.736 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
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	No
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in inch, fixed installation	4.417 in

Minimum bending radius, occasionally moved	20 x outer diameter
Minimum bending radius in mm, occasionally moved	14.724 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	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	EAЭС N RU Д-DE.АЮ64.В.00130/20
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 CY 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
1121232	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 2X0,75	2	No	0.75 mm ²	0.413 in	309.1 lb/10000 ft
1121233	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3G0,75	3	Yes	0.75 mm ²	0.429 in	376.3 lb/10000 ft
1121235	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G0,75	4	Yes	0.75 mm ²	0.449 in	450.2 lb/10000 ft
1121236	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4X0,75	4	No	0.75 mm ²	0.449 in	450.22 lb/10000 ft
1121237	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G0,75	5	Yes	0.75 mm ²	0.476 in	524.14 lb/10000 ft
1121241	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 7G0,75	7	Yes	0.75 mm ²	0.508 in	651.81 lb/10000 ft
1121247	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 12G0,75	12	Yes	0.75 mm ²	0.622 in	1128.91 lb/10000 ft
1121251	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 18G0,75	18	Yes	0.75 mm ²	0.709 in	1538.81 lb/10000 ft
1121254	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 25G0,75	25	Yes	0.75 mm ²	0.815 in	1989.03 lb/10000 ft
1121266	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 2X1	2	No	1 mm ²	0.425 in	349.4 lb/10000 ft
1121267	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3G1	3	Yes	1 mm ²	0.441 in	443.5 lb/10000 ft
1121268	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3X1	3	No	1 mm ²	0.441 in	443.5 lb/10000 ft
1121269	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G1	4	Yes	1 mm ²	0.465 in	530.86 lb/10000 ft
1121270	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4X1	4	No	1 mm ²	0.465 in	530.86 lb/10000 ft
1121271	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G1	5	Yes	1 mm ²	0.496 in	624.93 lb/10000 ft
1121274	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 7G1	7	Yes	1 mm ²	0.524 in	786.2 lb/10000 ft
1121280	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 12G1	12	Yes	1 mm ²	0.646 in	1370.81 lb/10000 ft
1121284	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 18G1	18	Yes	1 mm ²	0.736 in	1881.5 lb/10000 ft
1121290	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 25G1	25	Yes	1 mm ²	0.85 in	2479.3 lb/10000 ft
1121306	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 2X1,5	2	No	1.5 mm ²	0.465 in	463.66 lb/10000 ft
1121307	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3G1,5	3	Yes	1.5 mm ²	0.484 in	584.61 lb/10000 ft
1121308	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3X1,5	3	No	1.5 mm ²	0.484 in	584.61 lb/10000 ft
1121309	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G1,5	4	Yes	1.5 mm ²	0.512 in	685.3 lb/10000 ft
1121310	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4X1,5	4	No	1.5 mm ²	0.512 in	685.41 lb/10000 ft
1121311	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G1,5	5	Yes	1.5 mm ²	0.547 in	839.8 lb/10000 ft
1121314	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 7G1,5	7	Yes	1.5 mm ²	0.591 in	1209.54 lb/10000 ft
1121320	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 12G1,5	12	Yes	1.5 mm ²	0.736 in	1888.23 lb/10000 ft
1121324	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 18G1,5	18	Yes	1.5 mm ²	0.858 in	2627.4 lb/10000 ft
1121328	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 25G1,5	25	Yes	1.5 mm ²	0.988 in	3480.8 lb/10000 ft
1121340	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 3G2,5	3	Yes	2.5 mm ²	0.531 in	826.5 lb/10000 ft

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm ²)	Nominal outer diameter	Copper index
1121342	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G2,5	4	Yes	2.5 mm ²	0.575 in	1128.91 lb/10000 ft
1121344	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G2,5	5	Yes	2.5 mm ²	0.618 in	1370.82 lb/10000 ft
1121346	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 7G2,5	7	Yes	2.5 mm ²	0.669 in	1780.53 lb/10000 ft
1121349	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 12G2,5	12	Yes	2.5 mm ²	0.854 in	2828.99 lb/10000 ft
1121360	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G4	4	Yes	4 mm ²	0.638 in	1599.1 lb/10000 ft
1121361	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G4	5	Yes	4 mm ²	0.697 in	2029.36 lb/10000 ft
1121362	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 7G4	7	Yes	4 mm ²	0.748 in	2661 lb/10000 ft
1121367	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G6	4	Yes	6 mm ²	0.697 in	2136.6 lb/10000 ft
1121368	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G6	5	Yes	6 mm ²	0.756 in	2815.55 lb/10000 ft
1121372	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G10	4	Yes	10 mm ²	0.854 in	3856.7 lb/10000 ft
1121373	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G10	5	Yes	10 mm ²	0.906 in	4112.45 lb/10000 ft
1121377	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G16	4	Yes	16 mm ²	0.957 in	5435.7 lb/10000 ft
1121378	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 5G16	5	Yes	16 mm ²	1.051 in	6282.91 lb/10000 ft
1121381	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G25	4	Yes	25 mm ²	1.173 in	7828.44 lb/10000 ft
1121385	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G35	4	Yes	35 mm ²	1.287 in	11309.23 lb/10000 ft
1121388	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G50	4	Yes	50 mm ²	1.559 in	15912.1 lb/10000 ft
1121391	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G70	4	Yes	70 mm ²	1.752 in	21912.7 lb/10000 ft
1121394	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G95	4	Yes	95 mm ²	2.008 in	27248.33 lb/10000 ft
1121397	ÖLFLEX® CLASSIC 110 CY BK 0,6/1kV 4G120	4	Yes	120 mm ²	2.287 in	35110.37 lb/10000 ft

V1.1