

## ÖLFLEX® CLASSIC 115 CY 3G1 BK

**Article No.:** 1136536

Power and control cable; 3G1;  $U_0/U$ : 300/500 V; PVC; Core identification: Numbers; Shielded; Flexible



CE



### Details

#### Benefits

- Weatherproof and therefore well suited for outdoor use.
- Space-saving due to reduced wall thicknesses.
- Doing away with the inner jacket results in lower weight and smaller outer diameters.
- Ideal protection against electromagnetic interference thanks to copper shielding braiding with a high degree of coverage.
- 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.
- 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.

**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.

**Remarks**

## Technical Data

**General information**

Brand	ÖLFLEX®
Product type	Power and control cable
Copper index	342.71 lb/10000 ft
Industry segment	Agricultural & Farm Machinery Assembly Machines Construction Machinery Heating, Ventilation, Air Conditioning & Refrigeration Solar

**Electrical parameters**

Nominal voltage	$U_0/U$ : 300/500 V AC rms according to IEC
Test voltage conductor/conductor	4 kV
Test voltage conductor/shielding	2 kV

**Product design**

Cable dimension	3G1
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	3
Stranding type	Layered Stranding
Wrapping above stranding	Plastic film
Shielded	Yes
Type of overall shielding	Tin-plated copper braiding
With armoring	No
Nominal outer diameter	0.268 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	black
Core identification	Numbers
Conductor color code	VDE 0293-1 EN 50334

### Product features

Application area	Flexible Fixed Installation Torsion
For permanent bending	No
For torsional load	Yes
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in inch, fixed installation	1.606 in
Minimum bending radius, occasionally moved	20 x outer diameter
Minimum bending radius in mm, occasionally moved	5.354 in
Torsion	For +/- 150 °/m and min. -20 °C up to 2000 Torsion cycles For +/- 150 °/m and min. 5 °C up to 5000 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

#### Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	EAЭC 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 115 CY BK**

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm <sup>2</sup> )	Nominal outer diameter	Copper index
1136110	ÖLFLEX® CLASSIC 115 CY 3G0,75 BK	3	Yes	0.75 mm <sup>2</sup>	0.256 in	349.42 lb/10000 ft
1136111	ÖLFLEX® CLASSIC 115 CY 4G0,75 BK	4	Yes	0.75 mm <sup>2</sup>	0.276 in	409.9 lb/10000 ft
1136113	ÖLFLEX® CLASSIC 115 CY 5G0,75 BK	5	Yes	0.75 mm <sup>2</sup>	0.303 in	483.82 lb/10000 ft
1136114	ÖLFLEX® CLASSIC 115 CY 7G0,75 BK	7	Yes	0.75 mm <sup>2</sup>	0.327 in	598.06 lb/10000 ft
1136115	ÖLFLEX® CLASSIC 115 CY 12G0,75 BK	12	Yes	0.75 mm <sup>2</sup>	0.429 in	927.32 lb/10000 ft
1136510	ÖLFLEX® CLASSIC 115 CY 2X0,5 BK	2	No	0.5 mm <sup>2</sup>	0.228 in	241.91 lb/10000 ft
1136511	ÖLFLEX® CLASSIC 115 CY 3G0,5 BK	3	Yes	0.5 mm <sup>2</sup>	0.24 in	288.95 lb/10000 ft
1136512	ÖLFLEX® CLASSIC 115 CY 3X0,5 BK	3	No	0.5 mm <sup>2</sup>	0.24 in	288.95 lb/10000 ft
1136513	ÖLFLEX® CLASSIC 115 CY 4G0,5 BK	4	Yes	0.5 mm <sup>2</sup>	0.256 in	329.26 lb/10000 ft
1136514	ÖLFLEX® CLASSIC 115 CY 4X0,5 BK	4	No	0.5 mm <sup>2</sup>	0.256 in	329.27 lb/10000 ft
1136515	ÖLFLEX® CLASSIC 115 CY 5G0,5 BK	5	Yes	0.5 mm <sup>2</sup>	0.276 in	383.02 lb/10000 ft
1136517	ÖLFLEX® CLASSIC 115 CY 7G0,5 BK	7	Yes	0.5 mm <sup>2</sup>	0.295 in	463.66 lb/10000 ft
1136523	ÖLFLEX® CLASSIC 115 CY 2X0,75 BK	2	No	0.75 mm <sup>2</sup>	0.244 in	288.95 lb/10000 ft
1136525	ÖLFLEX® CLASSIC 115 CY 3X0,75 BK	3	No	0.75 mm <sup>2</sup>	0.256 in	349.43 lb/10000 ft
1136527	ÖLFLEX® CLASSIC 115 CY 4X0,75 BK	4	No	0.75 mm <sup>2</sup>	0.276 in	409.9 lb/10000 ft
1136533	ÖLFLEX® CLASSIC 115 CY 18G0,75 BK	18	Yes	0.75 mm <sup>2</sup>	0.5 in	1417.86 lb/10000 ft
1136535	ÖLFLEX® CLASSIC 115 CY 2X1 BK	2	No	1 mm <sup>2</sup>	0.256 in	342.71 lb/10000 ft
1136536	ÖLFLEX® CLASSIC 115 CY 3G1 BK	3	Yes	1 mm <sup>2</sup>	0.268 in	342.71 lb/10000 ft
1136537	ÖLFLEX® CLASSIC 115 CY 3X1 BK	3	No	1 mm <sup>2</sup>	0.268 in	416.62 lb/10000 ft
1136538	ÖLFLEX® CLASSIC 115 CY 4G1 BK	4	Yes	1 mm <sup>2</sup>	0.287 in	497.26 lb/10000 ft
1136539	ÖLFLEX® CLASSIC 115 CY 4X1 BK	4	No	1 mm <sup>2</sup>	0.287 in	497.26 lb/10000 ft
1136540	ÖLFLEX® CLASSIC 115 CY 5G1 BK	5	Yes	1 mm <sup>2</sup>	0.319 in	591.34 lb/10000 ft
1136541	ÖLFLEX® CLASSIC 115 CY 5X1 BK	5	No	1 mm <sup>2</sup>	0.319 in	591.34 lb/10000 ft
1136542	ÖLFLEX® CLASSIC 115 CY 7G1 BK	7	Yes	1 mm <sup>2</sup>	0.346 in	752.61 lb/10000 ft
1136544	ÖLFLEX® CLASSIC 115 CY 12G1 BK	12	Yes	1 mm <sup>2</sup>	0.453 in	1243.15 lb/10000 ft
1136545	ÖLFLEX® CLASSIC 115 CY 18G1 BK	18	Yes	1 mm <sup>2</sup>	0.547 in	1800.89 lb/10000 ft
1136546	ÖLFLEX® CLASSIC 115 CY 25G1 BK	25	Yes	1 mm <sup>2</sup>	0.626 in	2378.78 lb/10000 ft
1136547	ÖLFLEX® CLASSIC 115 CY 2X1,5 BK	2	No	1.5 mm <sup>2</sup>	0.28 in	436.78 lb/10000 ft
1136548	ÖLFLEX® CLASSIC 115 CY 3G1,5 BK	3	Yes	1.5 mm <sup>2</sup>	0.295 in	551.01 lb/10000 ft
1136549	ÖLFLEX® CLASSIC 115 CY 3X1,5 BK	3	No	1.5 mm <sup>2</sup>	0.295 in	551.02 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
1136550	ÖLFLEX® CLASSIC 115 CY 4G1,5 BK	4	Yes	1.5 mm <sup>2</sup>	0.323 in	671.97 lb/10000 ft
1136551	ÖLFLEX® CLASSIC 115 CY 4X1,5 BK	4	No	1.5 mm <sup>2</sup>	0.323 in	671.97 lb/10000 ft
1136552	ÖLFLEX® CLASSIC 115 CY 5G1,5 BK	5	Yes	1.5 mm <sup>2</sup>	0.35 in	799.65 lb/10000 ft
1136554	ÖLFLEX® CLASSIC 115 CY 7G1,5 BK	7	Yes	1.5 mm <sup>2</sup>	0.39 in	1034.84 lb/10000 ft
1136556	ÖLFLEX® CLASSIC 115 CY 12G1,5 BK	12	Yes	1.5 mm <sup>2</sup>	0.512 in	1800.89 lb/10000 ft
1136557	ÖLFLEX® CLASSIC 115 CY 18G1,5 BK	18	Yes	1.5 mm <sup>2</sup>	0.614 in	2506.46 lb/10000 ft
1136560	ÖLFLEX® CLASSIC 115 CY 3G2,5 BK	3	Yes	2.5 mm <sup>2</sup>	0.35 in	792.93 lb/10000 ft
1136561	ÖLFLEX® CLASSIC 115 CY 4G2,5 BK	4	Yes	2.5 mm <sup>2</sup>	0.39 in	987.8 lb/10000 ft
1136562	ÖLFLEX® CLASSIC 115 CY 5G2,5 BK	5	Yes	2.5 mm <sup>2</sup>	0.433 in	1182.67 lb/10000 ft
1136563	ÖLFLEX® CLASSIC 115 CY 7G2,5 BK	7	Yes	2.5 mm <sup>2</sup>	0.469 in	1700.09 lb/10000 ft
1136566	ÖLFLEX® CLASSIC 115 CY 4G4 BK	4	Yes	4 mm <sup>2</sup>	0.457 in	1666.49 lb/10000 ft
1136567	ÖLFLEX® CLASSIC 115 CY 4G6 BK	4	Yes	6 mm <sup>2</sup>	0.559 in	2304.87 lb/10000 ft
1136568	ÖLFLEX® CLASSIC 115 CY 4G10 BK	4	Yes	10 mm <sup>2</sup>	0.677 in	3326.26 lb/10000 ft

V1.1