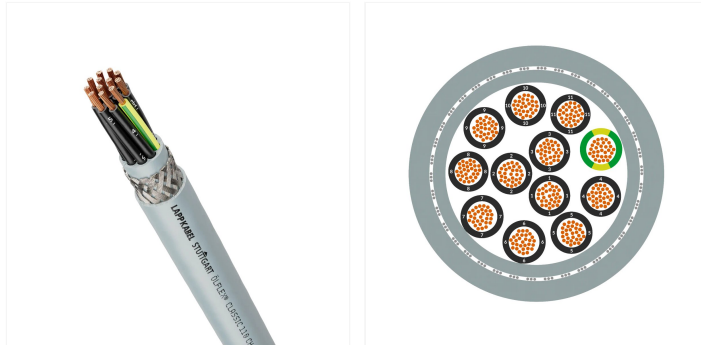


ÖLFLEX® CLASSIC 110 CH 4X0,5

Article No.: 10035034

Power and control cable; 4X0.5; U_0/U : 300/500 V; HFFR; Core identification: Numbers; Shielded; UL recognized; Flexible



Details

Benefits

- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.
- 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.
- High electrical safety thanks to 4000 V test voltage.
- UL certification according to technical data enables the product to be used on the North American market.
- Product with multiple certifications enables universal use and reduces the variety of parts, thus guaranteeing logistics savings.

Application

- For universal use for wiring machine-internal and cross-plant control circuits.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp environments.
- Suitable for medium mechanical stress.

- Suitable for outdoor use.
- Flexible use at temperatures down to -30°C.

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	278.2 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 Rolling Stock Ships & boats

Electrical parameters

Nominal voltage	U_0/U : 300/500 V AC rms according to IEC
Rated voltage	600 V AC rms according to UL AWM
Test voltage conductor/conductor	4 kV
Test voltage conductor/shielding	4 kV

Product design

Cable dimension	4X0.5
Nominal cross section conductor (mm ²)	0.5 mm ²
Nominal cross section conductor (AWG)	21 AWG
Leading conductor cross-section	mm ²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	No
Number of cores	4
Stranding type	Layered Stranding
Shielded	Yes
Type of overall shielding	Tin-plated copper braiding
Nominal outer diameter	0.315 in
Cable form	Round
Core insulation base material	Halogen-free compound
Conductor insulation basic material, short form	HFFR
Basic material of inner jacket	Halogen-free compound
Basic material of inner jacket, short form	HFFR
colour inner sheath	gray
Basic material of outer jacket	Halogen-free compound
Base material of outer sheath, shortname	HFFR
Outer jacket color	gray
Core identification	Numbers
Conductor color code	VDE 0293-1 EN 50334

Product features

Application area	Flexible Fixed Installation
For torsional load	No
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in inch, fixed installation	1.89 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	4.724 in
Temperature, fixed installation	to 75 °C max. conductor temperature according to UL AWM -40 °C to 80 °C max. conductor temperature
Temperature, occasionally moved	to 75 °C max. conductor temperature according to UL AWM -30 °C to 70 °C max. conductor temperature
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 IEC 60332-3-22 IEC 60332-3-25 UL Cable Flame Test
low smoke density according to	IEC 61034-2
low toxicity of combustion gases	NES 02-713 (≤ 3)
Corrosiveness of combustion gases according to	IEC 60754-2
UV-resistant	Yes

UV-resistant according to	DIN EN ISO 4892-2 method A EN 50620 EN 50618
Ozone-resistant	Yes
ozone resistant according to	EN 50396, method B
Halogenfree	Yes
Halogen-free according to	IEC 60754-1
Oil resistant	Yes

Oil resistance according to	EN 50363-4-1: TM5 UL OILRES I UL OILRES II
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
UL recognized	Yes
UL AWM certification	21089 according to UL 758 (e-file number: E63634)
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	No
VDE certified	No
DNV-certified	No
CPR fire class	B2ca
CPR smoke density	s1
CPR droplets	d1
CPR acidity	a1

Resistance to flame propagation tested according to UN/ECE-R118	No
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Tested for fire protection for railway vehicles	No
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ÖLFLEX® CLASSIC 110 CH

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm ²)	Nominal outer diameter	Copper index	CPR fire class
10035030	ÖLFLEX® CLASSIC 110 CH 2X0,5	2	No	0.5 mm ²	0.28 in	195.5 lb/10000 ft	Dca
10035031	ÖLFLEX® CLASSIC 110 CH 3G0,5	3	Yes	0.5 mm ²	0.291 in	235.83 lb/10000 ft	B2ca
10035032	ÖLFLEX® CLASSIC 110 CH 3X0,5	3	No	0.5 mm ²	0.291 in	235.86 lb/10000 ft	B2ca
10035033	ÖLFLEX® CLASSIC 110 CH 4G0,5	4	Yes	0.5 mm ²	0.315 in	278.16 lb/10000 ft	B2ca
10035034	ÖLFLEX® CLASSIC 110 CH 4X0,5	4	No	0.5 mm ²	0.315 in	278.2 lb/10000 ft	B2ca
10035035	ÖLFLEX® CLASSIC 110 CH 5G0,5	5	Yes	0.5 mm ²	0.339 in	322.5 lb/10000 ft	B2ca
10035036	ÖLFLEX® CLASSIC 110 CH 7G0,5	7	Yes	0.5 mm ²	0.358 in	402.46 lb/10000 ft	
10035037	ÖLFLEX® CLASSIC 110 CH 12G0,5	12	Yes	0.5 mm ²	0.453 in	614.1 lb/10000 ft	
10035040	ÖLFLEX® CLASSIC 110 CH 2X0,75	2	No	0.75 mm ²	0.303 in	237.88 lb/10000 ft	B2ca
10035041	ÖLFLEX® CLASSIC 110 CH 3G0,75	3	Yes	0.75 mm ²	0.315 in	294.3 lb/10000 ft	B2ca
10035042	ÖLFLEX® CLASSIC 110 CH 3X0,75	3	No	0.75 mm ²	0.315 in	294.3 lb/10000 ft	B2ca
10035043	ÖLFLEX® CLASSIC 110 CH 4G0,75	4	Yes	0.75 mm ²	0.335 in	354.8 lb/10000 ft	B2ca
10035044	ÖLFLEX® CLASSIC 110 CH 4X0,75	4	No	0.75 mm ²	0.335 in	354.8 lb/10000 ft	B2ca
10035045	ÖLFLEX® CLASSIC 110 CH 5G0,75	5	Yes	0.75 mm ²	0.366 in	418.6 lb/10000 ft	B2ca
10035046	ÖLFLEX® CLASSIC 110 CH 5X0,75	5	No	0.75 mm ²	0.366 in	418.64 lb/10000 ft	B2ca
10035047	ÖLFLEX® CLASSIC 110 CH 7G0,75	7	Yes	0.75 mm ²	0.39 in	534.16 lb/10000 ft	B2ca
10035048	ÖLFLEX® CLASSIC 110 CH 7X0,75	7	No	0.75 mm ²	0.39 in	534.22 lb/10000 ft	B2ca
10035050	ÖLFLEX® CLASSIC 110 CH 12G0,75	12	Yes	0.75 mm ²	0.492 in	827.8 lb/10000 ft	
10035051	ÖLFLEX® CLASSIC 110 CH 18G0,75	18	Yes	0.75 mm ²	0.583 in	1267.2 lb/10000 ft	
10035052	ÖLFLEX® CLASSIC 110 CH 25G0,75	25	Yes	0.75 mm ²	0.665 in	1663.12 lb/10000 ft	
10035055	ÖLFLEX® CLASSIC 110 CH 2X1	2	No	1 mm ²	0.315 in	278.2 lb/10000 ft	B2ca
10035056	ÖLFLEX® CLASSIC 110 CH 3G1	3	Yes	1 mm ²	0.331 in	350.05 lb/10000 ft	B2ca
10035057	ÖLFLEX® CLASSIC 110 CH 3X1	3	No	1 mm ²	0.331 in	350.1 lb/10000 ft	B2ca
10035058	ÖLFLEX® CLASSIC 110 CH 4G1	4	Yes	1 mm ²	0.35 in	493.84 lb/10000 ft	B2ca
10035059	ÖLFLEX® CLASSIC 110 CH 4X1	4	No	1 mm ²	0.35 in	493.9 lb/10000 ft	B2ca
10035060	ÖLFLEX® CLASSIC 110 CH 5G1	5	Yes	1 mm ²	0.382 in	559 lb/10000 ft	B2ca
10035061	ÖLFLEX® CLASSIC 110 CH 7G1	7	Yes	1 mm ²	0.406 in	653.1 lb/10000 ft	B2ca
10035062	ÖLFLEX® CLASSIC 110 CH 12G1	12	Yes	1 mm ²	0.535 in	1133.5 lb/10000 ft	
10035063	ÖLFLEX® CLASSIC 110 CH 18G1	18	Yes	1 mm ²	0.618 in	1581.7 lb/10000 ft	
10035064	ÖLFLEX® CLASSIC 110 CH 25G1	25	Yes	1 mm ²	0.701 in	2096.32 lb/10000 ft	

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm ²)	Nominal outer diameter	Copper index	CPR fire class
10035067	ÖLFLEX® CLASSIC 110 CH 2X1,5	2	No	1.5 mm ²	0.339 in	357.5 lb/10000 ft	B2ca
10035068	ÖLFLEX® CLASSIC 110 CH 3G1,5	3	Yes	1.5 mm ²	0.354 in	464.3 lb/10000 ft	B2ca
10035069	ÖLFLEX® CLASSIC 110 CH 3X1,5	3	No	1.5 mm ²	0.354 in	464.33 lb/10000 ft	B2ca
10035070	ÖLFLEX® CLASSIC 110 CH 4G1,5	4	Yes	1.5 mm ²	0.386 in	576.5 lb/10000 ft	B2ca
10035071	ÖLFLEX® CLASSIC 110 CH 5G1,5	5	Yes	1.5 mm ²	0.413 in	690.7 lb/10000 ft	B2ca
10035072	ÖLFLEX® CLASSIC 110 CH 7G1,5	7	Yes	1.5 mm ²	0.449 in	901.7 lb/10000 ft	B2ca
10035073	ÖLFLEX® CLASSIC 110 CH 12G1,5	12	Yes	1.5 mm ²	0.591 in	1564.2 lb/10000 ft	B2ca
10035074	ÖLFLEX® CLASSIC 110 CH 18G1,5	18	Yes	1.5 mm ²	0.685 in	2202.5 lb/10000 ft	
10035075	ÖLFLEX® CLASSIC 110 CH 25G1,5	25	Yes	1.5 mm ²	0.803 in	3112.2 lb/10000 ft	
10035089	ÖLFLEX® CLASSIC 110 CH 3G2,5	3	Yes	2.5 mm ²	0.413 in	690.7 lb/10000 ft	B2ca
10035090	ÖLFLEX® CLASSIC 110 CH 4G2,5	4	Yes	2.5 mm ²	0.449 in	869.4 lb/10000 ft	B2ca
10035091	ÖLFLEX® CLASSIC 110 CH 5G2,5	5	Yes	2.5 mm ²	0.5 in	1058.2 lb/10000 ft	B2ca
10035092	ÖLFLEX® CLASSIC 110 CH 7G2,5	7	Yes	2.5 mm ²	0.551 in	1498.3 lb/10000 ft	B2ca
10035093	ÖLFLEX® CLASSIC 110 CH 12G2,5	12	Yes	2.5 mm ²	0.705 in	2422.2 lb/10000 ft	B2ca
10035094	ÖLFLEX® CLASSIC 110 CH 4G4	4	Yes	4 mm ²	0.535 in	1394.86 lb/10000 ft	B2ca
10035095	ÖLFLEX® CLASSIC 110 CH 5G4	5	Yes	4 mm ²	0.587 in	1689.82 lb/10000 ft	B2ca
10035096	ÖLFLEX® CLASSIC 110 CH 7G4	7	Yes	4 mm ²	0.638 in	2243.5 lb/10000 ft	B2ca
10035097	ÖLFLEX® CLASSIC 110 CH 4G6	4	Yes	6 mm ²	0.622 in	1980.8 lb/10000 ft	B2ca
10035098	ÖLFLEX® CLASSIC 110 CH 5G6	5	Yes	6 mm ²	0.681 in	2392.63 lb/10000 ft	B2ca
10035099	ÖLFLEX® CLASSIC 110 CH 7G6	7	Yes	6 mm ²	0.74 in	3220.4 lb/10000 ft	B2ca
10035380	ÖLFLEX® CLASSIC 110 CH 4G10	4	Yes	10 mm ²	0.752 in	3098.1 lb/10000 ft	B2ca
10035381	ÖLFLEX® CLASSIC 110 CH 5G10	5	Yes	10 mm ²	0.843 in	3941.4 lb/10000 ft	B2ca
10035382	ÖLFLEX® CLASSIC 110 CH 4G16	4	Yes	16 mm ²	0.878 in	4888.74 lb/10000 ft	B2ca
10035383	ÖLFLEX® CLASSIC 110 CH 5G16	5	Yes	16 mm ²	0.965 in	5971.82 lb/10000 ft	B2ca
10035384	ÖLFLEX® CLASSIC 110 CH 4G25	4	Yes	25 mm ²	1.063 in	7551.5 lb/10000 ft	B2ca
10035386	ÖLFLEX® CLASSIC 110 CH 4G35	4	Yes	35 mm ²	1.197 in	10274.7 lb/10000 ft	B2ca

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