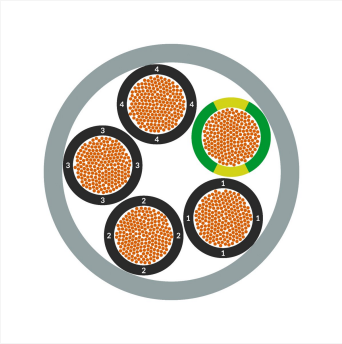
ÖLFLEX® 191 3G1

Article No.: 0011113

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





Details

Benefits

- Cable with multiple certifications enables universal use and reduces the number of parts, therefore guaranteeing logistics savings.
- UL/CSA certification according to technical data enables the product to be used on the North American market.
- Space-saving due to reduced wall thicknesses.
- High oil resistance according to DIN EN 50363-4-1 (TM5).
- High electrical safety thanks to 4000 V test voltage.

Application

- For universal use for wiring machine-internal and cross-plant control circuits.
- For fixed installation and occasional flexing without tensile strain.
- Suitable for medium mechanical stress.
- The PVC outer jacket is resistant to acids and alkaline solutions.

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.

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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	193.5 lb/10000 ft
Industry segment	Automotive Construction Machinery Energy Food & Beverage Healthcare & Pharma Heating, Ventilation, Air Conditioning & Refrigeration Intralogistics & Material handling Lifts & Elevators Machine Tools Packaging Process Industry Robotics
customs code	8544499000

Electrical parameters

Nominal voltage	U_0/U: 300/500 V AC rms according to IEC
Rated voltage	600 V AC rms according to UL/CSA
test voltage	4 kV

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Product design

Cable dimension	3G1
Nominal conductor cross-section (metric)	1 mm²
Nominal cross section conductor (AWG)	18 AWG
Leading conductor cross-section	mm²
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
Nominal outer diameter	0.26 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

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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	4 x outer diameter
Minimum bending radius in inch, fixed installation	1.039 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in inch, occasionally flexing	3.898 in
Temperature, fixed installation	to 90 °C max. conductor temperature according to CSA AWM to 90 °C max. conductor temperature according to UL AWM -40 °C to 70 °C max. conductor temperature
Temperature, fixed installation max	90 °C
Temperature, fixed installation min	-40 °C
Temperature, occasionally moved	-5 °C to 70 °C max. conductor temperature to 90 °C max. conductor temperature according to UL AWM to 90 °C max. conductor temperature according to CSA AWM
Temperature, occasionally moved max	90 °C
Temperature, occasionally moved min	-5 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 UL Cable Flame Test UL VW-1 CSA FT1
UV-resistant	No
Chemical resistant	Yes
Halogenfree	No

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Oil resistant	Yes
Oil resistance according to	EN 50363-4-1: TM5 UL 80°C (176°F) rating according to UL 758 CSA C22.2 No. 210-15
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L

Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	ЕАЭС N RU Д-DE.АЮ64.В.00130/20
UL recognized	Yes
UL AWM certification	21098 according to UL 758 (e-file number: E63634)
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	Yes
CSA certification	AWM II B according to CSA C22.2 No. 210 AWM II A according to CSA C22.2 No. 210 AWM I A according to CSA C22.2 No. 210 AWM I B according to CSA C22.2 No. 210
VDE certified	No
HAR-certified	No
CPR fire class	Dca
CPR smoke density	s3
CPR droplets	d0
CPR acidity	a3
Resistance to flame propagation tested according to UN/ECE-R118	No
Ecolab certified	No

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ÖLFLEX® 191

Article No.	Name	Number of cores	Including protective ground	Nominal conductor cross-section (metric)	Nominal outer diameter	Copper index
0011113	ÖLFLEX® 191 3G1	3	Yes	1 mm²	0.26 in	193.5 lb/10000 ft
0011114	ÖLFLEX® 191 4G1	4	Yes	1 mm²	0.283 in	258 lb/10000 ft
0011115	ÖLFLEX® 191 5G1	5	Yes	1 mm²	0.319 in	322.5 lb/10000 ft
0011116	ÖLFLEX® 191 7G1	7	Yes	1 mm²	0.346 in	451.5 lb/10000 ft
0011117	ÖLFLEX® 191 12G1	12	Yes	1 mm²	0.465 in	774 lb/10000 ft
0011118	ÖLFLEX® 191 18G1	18	Yes	1 mm²	0.559 in	1161.04 lb/10000 ft
0011119	ÖLFLEX® 191 25G1	25	Yes	1 mm²	0.673 in	529.1 lb/10000 ft
0011125	ÖLFLEX® 191 9G1,5	9	Yes	1.5 mm²	0.496 in	870.8 lb/10000 ft
0011136	ÖLFLEX® 191 2X1,5	2	No	1.5 mm²	0.268 in	193.5 lb/10000 ft
0011137	ÖLFLEX® 191 3G1,5	3	Yes	1.5 mm²	0.283 in	295.63 lb/10000 ft
0011138	ÖLFLEX® 191 4G1,5	4	Yes	1.5 mm²	0.319 in	389.7 lb/10000 ft
0011139	ÖLFLEX® 191 5G1,5	5	Yes	1.5 mm²	0.35 in	483.8 lb/10000 ft
0011140	ÖLFLEX® 191 7G1,5	7	Yes	1.5 mm²	0.39 in	678.6 lb/10000 ft
0011142	ÖLFLEX® 191 12G1,5	12	Yes	1.5 mm²	0.524 in	1162.4 lb/10000 ft
0011143	ÖLFLEX® 191 18G1,5	18	Yes	1.5 mm²	0.626 in	1746.9 lb/10000 ft
0011144	ÖLFLEX® 191 25G1,5	25	Yes	1.5 mm²	0.76 in	2418.8 lb/10000 ft
0011150	ÖLFLEX® 191 3G2,5	3	Yes	2.5 mm²	0.327 in	483.8 lb/10000 ft
0011151	ÖLFLEX® 191 4G2,5	4	Yes	2.5 mm²	0.354 in	645 lb/10000 ft
0011152	ÖLFLEX® 191 5G2,5	5	Yes	2.5 mm²	0.402 in	806.3 lb/10000 ft
0011153	ÖLFLEX® 191 7G2,5	7	Yes	2.5 mm²	0.445 in	1128.8 lb/10000 ft
0011160	ÖLFLEX® 191 3G4	3	Yes	4 mm²	0.39 in	774.02 lb/10000 ft
0011161	ÖLFLEX® 191 4G4	4	Yes	4 mm²	0.425 in	1034.7 lb/10000 ft
0011162	ÖLFLEX® 191 5G4	5	Yes	4 mm²	0.476 in	1290 lb/10000 ft
0011165	ÖLFLEX® 191 4G6	4	Yes	6 mm²	0.512 in	1552.1 lb/10000 ft
0011166	ÖLFLEX® 191 5G6	5	Yes	6 mm²	0.571 in	1935.1 lb/10000 ft
0011167	ÖLFLEX® 191 7G4	7	Yes	4 mm²	0.528 in	592.6 lb/10000 ft
0011169	ÖLFLEX® 191 4G10	4	Yes	10 mm²	0.65 in	2580.1 lb/10000 ft
0011170	ÖLFLEX® 191 5G10	5	Yes	10 mm²	0.724 in	3225.1 lb/10000 ft
0011172	ÖLFLEX® 191 4G16	4	Yes	16 mm²	0.87 in	4132.2 lb/10000 ft
0011173	ÖLFLEX® 191 5G16	5	Yes	16 mm²	0.957 in	5160.2 lb/10000 ft

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Article No.	Name	Number of cores	Including protective ground	Nominal conductor cross-section (metric)	Nominal outer diameter	Copper index
0011175	ÖLFLEX® 191 4G25	4	Yes	25 mm²	0.992 in	6450.24 lb/10000 ft
0011176	ÖLFLEX® 191 5G25	5	Yes	25 mm²	1.102 in	8062.8 lb/10000 ft
0011178	ÖLFLEX® 191 4G35	4	Yes	35 mm²	1.106 in	9030.3 lb/10000 ft
0011179	ÖLFLEX® 191 5G35	5	Yes	35 mm²	1.24 in	11287.9 lb/10000 ft
0011205	ÖLFLEX® 191 4G50	4	Yes	50 mm²	1.406 in	12900.5 lb/10000 ft
0011206	ÖLFLEX® 191 4G70	4	Yes	70 mm²	1.693 in	18060.7 lb/10000 ft
0011207	ÖLFLEX® 191 4G95	4	Yes	95 mm²	1.858 in	24510.9 lb/10000 ft
0011208	ÖLFLEX® 191 4G120	4	Yes	120 mm²	2.134 in	30964.49 lb/10000 ft
0011222	ÖLFLEX® 191 7G0,75	7	Yes	0.75 mm²	0.327 in	111.11 lb/10000 ft
0011223	ÖLFLEX® 191 9G0,75	9	Yes	0.75 mm²	0.413 in	435.4 lb/10000 ft
0011224	ÖLFLEX® 191 12G0,75	12	Yes	0.75 mm²	0.441 in	580.58 lb/10000 ft

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