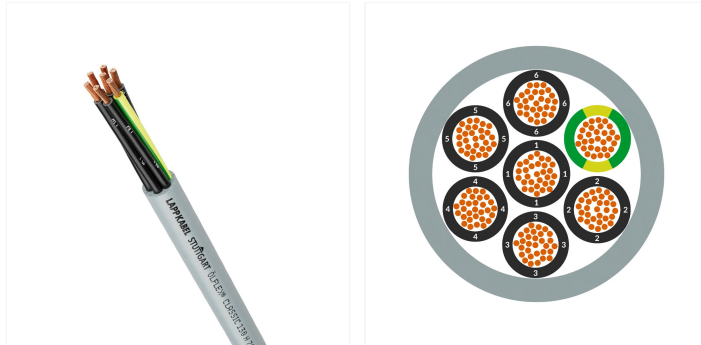


## ÖLFLEX® CLASSIC 130 H 7G1

**Article No.:** 1123074

Power and control cable; 7G1;  $U_0/U$ : 300/500 V; HFFR; Core identification: Numbers; UL recognized; Flexible



### Details

#### Benefits

- Easy handling and installation due to the flexible variant.
- 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.
- 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.
- VDE-tested fire behavior.

#### Application

- For structured building cabling for fulfilling special fire protection requirements.
- 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 environments.
- Suitable for medium mechanical stress.
- The HFFR outer jacket is highly resistant to acids and alkaline solutions.
- Suitable for temporary outdoor use, subject to the temperature range.
- Flexible use at temperatures down to -25°C.

**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.

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	451.56 lb/10000 ft
Industry segment	<ul style="list-style-type: none"> <li>Assembly Machines</li> <li>Automotive</li> <li>Energy</li> <li>Food &amp; Beverage</li> <li>Healthcare &amp; Pharma</li> <li>Heating, Ventilation, Air Conditioning &amp; Refrigeration</li> <li>Intralogistics &amp; Material handling</li> <li>Lifts &amp; Elevators</li> <li>Machine Tools</li> <li>Packaging</li> <li>Robotics</li> <li>Rolling Stock</li> <li>Ships &amp; boats</li> <li>Solar</li> </ul>

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**Electrical parameters**

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

**Product design**

Cable dimension	7G1
Nominal cross section conductor (mm <sup>2</sup> )	1 mm <sup>2</sup>
Nominal cross section conductor (AWG)	18 AWG
Leading conductor cross-section	mm <sup>2</sup>
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	Yes
Number of cores	7
Stranding type	Layered Stranding
Shielded	No
Nominal outer diameter	0.319 in
Cable form	Round
Core insulation base material	Halogen-free compound
Conductor insulation basic material, short form	HFFR
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
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For torsional load	No
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	1.276 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	4.783 in
Temperature, fixed installation	-40 °C to 80 °C max. conductor temperature to 75 °C max. conductor temperature according to UL AWM
Temperature, occasionally moved	to 75 °C max. conductor temperature according to UL AWM -25 °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 Horizontal Flame Test
low smoke density according to	IEC 61034-2
low toxicity of combustion gases	NES 02-713 ( $\leq 3$ )
Corrosiveness of combustion gases according to	IEC 60754-2
UV-resistant	Yes
UV-resistant according to	EN 50620
Ozone-resistant	Yes
ozone resistant according to	EN 50396, method B
Halogenfree	Yes
Halogen-free according to	IEC 60754-1
Oil resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
<b>Certifications and standards</b>	
CE marking	Yes

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EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
UL recognized	Yes
UL AWM certification	21217 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	Dca
CPR smoke density	s1b
CPR droplets	d2
CPR acidity	a1
Resistance to flame propagation tested according to UN/ECE-R118	No
Tested for fire protection for railway vehicles	No

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**ÖLFLEX® CLASSIC 130 H**

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm <sup>2</sup> )	Nominal outer diameter	Copper index	CPR fire class
1123000	ÖLFLEX® CLASSIC 130 H 2X0,5	2	No	0.5 mm <sup>2</sup>	0.201 in	64.5 lb/10000 ft	Dca
1123001	ÖLFLEX® CLASSIC 130 H 3G0,5	3	Yes	0.5 mm <sup>2</sup>	0.213 in	96.76 lb/10000 ft	Dca
1123002	ÖLFLEX® CLASSIC 130 H 3X0,5	3	No	0.5 mm <sup>2</sup>	0.213 in	96.8 lb/10000 ft	Dca
1123003	ÖLFLEX® CLASSIC 130 H 4G0,5	4	Yes	0.5 mm <sup>2</sup>	0.228 in	129.02 lb/10000 ft	Dca
1123004	ÖLFLEX® CLASSIC 130 H 4X0,5	4	No	0.5 mm <sup>2</sup>	0.228 in	130 lb/10000 ft	Dca
1123005	ÖLFLEX® CLASSIC 130 H 5G0,5	5	Yes	0.5 mm <sup>2</sup>	0.248 in	161.27 lb/10000 ft	Dca
1123006	ÖLFLEX® CLASSIC 130 H 5X0,5	5	No	0.5 mm <sup>2</sup>	0.248 in	161.27 lb/10000 ft	Dca
1123008	ÖLFLEX® CLASSIC 130 H 7G0,5	7	Yes	0.5 mm <sup>2</sup>	0.272 in	225.78 lb/10000 ft	Dca
1123010	ÖLFLEX® CLASSIC 130 H 8G0,5	8	Yes	0.5 mm <sup>2</sup>	0.323 in	258.04 lb/10000 ft	Dca
1123013	ÖLFLEX® CLASSIC 130 H 12G0,5	12	Yes	0.5 mm <sup>2</sup>	0.358 in	387.05 lb/10000 ft	Dca
1123017	ÖLFLEX® CLASSIC 130 H 18G0,5	18	Yes	0.5 mm <sup>2</sup>	0.425 in	580.58 lb/10000 ft	Dca
1123032	ÖLFLEX® CLASSIC 130 H 2X0,75	2	No	0.75 mm <sup>2</sup>	0.217 in	100 lb/10000 ft	Dca
1123033	ÖLFLEX® CLASSIC 130 H 3G0,75	3	Yes	0.75 mm <sup>2</sup>	0.228 in	150 lb/10000 ft	Dca
1123034	ÖLFLEX® CLASSIC 130 H 3X0,75	3	No	0.75 mm <sup>2</sup>	0.228 in	145.15 lb/10000 ft	Dca
1123035	ÖLFLEX® CLASSIC 130 H 4G0,75	4	Yes	0.75 mm <sup>2</sup>	0.248 in	193.53 lb/10000 ft	Dca
1123036	ÖLFLEX® CLASSIC 130 H 4X0,75	4	No	0.75 mm <sup>2</sup>	0.248 in	193.53 lb/10000 ft	Dca
1123037	ÖLFLEX® CLASSIC 130 H 5G0,75	5	Yes	0.75 mm <sup>2</sup>	0.272 in	241.91 lb/10000 ft	Dca
1123038	ÖLFLEX® CLASSIC 130 H 5X0,75	5	No	0.75 mm <sup>2</sup>	0.272 in	241.91 lb/10000 ft	Dca
1123041	ÖLFLEX® CLASSIC 130 H 7G0,75	7	Yes	0.75 mm <sup>2</sup>	0.295 in	338.67 lb/10000 ft	Dca
1123042	ÖLFLEX® CLASSIC 130 H 7X0,75	7	No	0.75 mm <sup>2</sup>	0.295 in	338.67 lb/10000 ft	Dca
1123046	ÖLFLEX® CLASSIC 130 H 10G0,75	10	Yes	0.75 mm <sup>2</sup>	0.386 in	483.8 lb/10000 ft	Dca
1123047	ÖLFLEX® CLASSIC 130 H 12G0,75	12	Yes	0.75 mm <sup>2</sup>	0.398 in	580.5 lb/10000 ft	Dca
1123048	ÖLFLEX® CLASSIC 130 H 12X0,75	12	No	0.75 mm <sup>2</sup>	0.398 in	580.58 lb/10000 ft	Dca
1123051	ÖLFLEX® CLASSIC 130 H 18G0,75	18	Yes	0.75 mm <sup>2</sup>	0.472 in	870.87 lb/10000 ft	Dca
1123054	ÖLFLEX® CLASSIC 130 H 25G0,75	25	Yes	0.75 mm <sup>2</sup>	0.555 in	1209.54 lb/10000 ft	Dca
1123066	ÖLFLEX® CLASSIC 130 H 2X1	2	No	1 mm <sup>2</sup>	0.228 in	129.02 lb/10000 ft	Dca
1123067	ÖLFLEX® CLASSIC 130 H 3G1	3	Yes	1 mm <sup>2</sup>	0.24 in	193.5 lb/10000 ft	Dca
1123068	ÖLFLEX® CLASSIC 130 H 3X1	3	No	1 mm <sup>2</sup>	0.24 in	193.5 lb/10000 ft	Dca
1123069	ÖLFLEX® CLASSIC 130 H 4G1	4	Yes	1 mm <sup>2</sup>	0.26 in	258.04 lb/10000 ft	Dca
1123070	ÖLFLEX® CLASSIC 130 H 4X1	4	No	1 mm <sup>2</sup>	0.26 in	258.04 lb/10000 ft	Dca

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm <sup>2</sup> )	Nominal outer diameter	Copper index	CPR fire class
1123071	ÖLFLEX® CLASSIC 130 H 5G1	5	Yes	1 mm <sup>2</sup>	0.287 in	322.55 lb/10000 ft	Dca
1123072	ÖLFLEX® CLASSIC 130 H 5X1	5	No	1 mm <sup>2</sup>	0.287 in	322.5 lb/10000 ft	Dca
1123074	ÖLFLEX® CLASSIC 130 H 7G1	7	Yes	1 mm <sup>2</sup>	0.319 in	451.56 lb/10000 ft	Dca
1123075	ÖLFLEX® CLASSIC 130 H 7X1	7	No	1 mm <sup>2</sup>	0.319 in	451.56 lb/10000 ft	Dca
1123078	ÖLFLEX® CLASSIC 130 H 10G1	10	Yes	1 mm <sup>2</sup>	0.409 in	645.09 lb/10000 ft	Dca
1123080	ÖLFLEX® CLASSIC 130 H 12G1	12	Yes	1 mm <sup>2</sup>	0.421 in	774.11 lb/10000 ft	Dca
1123081	ÖLFLEX® CLASSIC 130 H 12X1	12	No	1 mm <sup>2</sup>	0.421 in	774.11 lb/10000 ft	Dca
1123084	ÖLFLEX® CLASSIC 130 H 18G1	18	Yes	1 mm <sup>2</sup>	0.508 in	1161.16 lb/10000 ft	Dca
1123090	ÖLFLEX® CLASSIC 130 H 25G1	25	Yes	1 mm <sup>2</sup>	0.591 in	1612.73 lb/10000 ft	Dca
1123106	ÖLFLEX® CLASSIC 130 H 2X1,5	2	No	1.5 mm <sup>2</sup>	0.252 in	193.53 lb/10000 ft	Dca
1123107	ÖLFLEX® CLASSIC 130 H 3G1,5	3	Yes	1.5 mm <sup>2</sup>	0.268 in	290.3 lb/10000 ft	Dca
1123108	ÖLFLEX® CLASSIC 130 H 3X1,5	3	No	1.5 mm <sup>2</sup>	0.268 in	290.26 lb/10000 ft	Dca
1123109	ÖLFLEX® CLASSIC 130 H 4G1,5	4	Yes	1.5 mm <sup>2</sup>	0.291 in	387 lb/10000 ft	Dca
1123110	ÖLFLEX® CLASSIC 130 H 4X1,5	4	No	1.5 mm <sup>2</sup>	0.291 in	387.05 lb/10000 ft	Dca
1123111	ÖLFLEX® CLASSIC 130 H 5G1,5	5	Yes	1.5 mm <sup>2</sup>	0.327 in	483.82 lb/10000 ft	Dca
1123112	ÖLFLEX® CLASSIC 130 H 5X1,5	5	No	1.5 mm <sup>2</sup>	0.327 in	483.82 lb/10000 ft	Dca
1123114	ÖLFLEX® CLASSIC 130 H 7G1,5	7	Yes	1.5 mm <sup>2</sup>	0.354 in	677.3 lb/10000 ft	Dca
1123115	ÖLFLEX® CLASSIC 130 H 7X1,5	7	No	1.5 mm <sup>2</sup>	0.354 in	677.34 lb/10000 ft	Dca
1123116	ÖLFLEX® CLASSIC 130 H 8G1,5	8	Yes	1.5 mm <sup>2</sup>	0.425 in	774.11 lb/10000 ft	Dca
1123118	ÖLFLEX® CLASSIC 130 H 10G1,5	10	Yes	1.5 mm <sup>2</sup>	0.465 in	967.64 lb/10000 ft	Dca
1123120	ÖLFLEX® CLASSIC 130 H 12G1,5	12	Yes	1.5 mm <sup>2</sup>	0.48 in	1161.16 lb/10000 ft	Dca
1123124	ÖLFLEX® CLASSIC 130 H 18G1,5	18	Yes	1.5 mm <sup>2</sup>	0.575 in	1741.74 lb/10000 ft	Dca
1123128	ÖLFLEX® CLASSIC 130 H 25G1,5	25	Yes	1.5 mm <sup>2</sup>	0.677 in	2419.09 lb/10000 ft	Dca
1123130	ÖLFLEX® CLASSIC 130 H 34G1,5	34	Yes	1.5 mm <sup>2</sup>	0.78 in	3289.96 lb/10000 ft	Dca
1123139	ÖLFLEX® CLASSIC 130 H 2X2,5	2	No	2.5 mm <sup>2</sup>	0.299 in	322.55 lb/10000 ft	Dca
1123140	ÖLFLEX® CLASSIC 130 H 3G2,5	3	Yes	2.5 mm <sup>2</sup>	0.327 in	483.8 lb/10000 ft	Dca
1123142	ÖLFLEX® CLASSIC 130 H 4G2,5	4	Yes	2.5 mm <sup>2</sup>	0.354 in	645.09 lb/10000 ft	Dca
1123144	ÖLFLEX® CLASSIC 130 H 5G2,5	5	Yes	2.5 mm <sup>2</sup>	0.398 in	806.3 lb/10000 ft	Dca
1123146	ÖLFLEX® CLASSIC 130 H 7G2,5	7	Yes	2.5 mm <sup>2</sup>	0.441 in	1128.9 lb/10000 ft	Dca
1123149	ÖLFLEX® CLASSIC 130 H 12G2,5	12	Yes	2.5 mm <sup>2</sup>	0.594 in	1935.27 lb/10000 ft	Dca

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm <sup>2</sup> )	Nominal outer diameter	Copper index	CPR fire class
1123151	ÖLFLEX® CLASSIC 130 H 18G2,5	18	Yes	2.5 mm <sup>2</sup>	0.709 in	2902.91 lb/10000 ft	Dca
1123153	ÖLFLEX® CLASSIC 130 H 25G2,5	25	Yes	2.5 mm <sup>2</sup>	0.831 in	4031.4 lb/10000 ft	Dca
1123159	ÖLFLEX® CLASSIC 130 H 3G4	3	Yes	4 mm <sup>2</sup>	0.386 in	774 lb/10000 ft	Dca
1123160	ÖLFLEX® CLASSIC 130 H 4G4	4	Yes	4 mm <sup>2</sup>	0.425 in	1032.14 lb/10000 ft	Dca
1123161	ÖLFLEX® CLASSIC 130 H 5G4	5	Yes	4 mm <sup>2</sup>	0.476 in	1290.18 lb/10000 ft	Dca
1123162	ÖLFLEX® CLASSIC 130 H 7G4	7	Yes	4 mm <sup>2</sup>	0.528 in	1806.25 lb/10000 ft	Dca
1123166	ÖLFLEX® CLASSIC 130 H 3G6	3	Yes	6 mm <sup>2</sup>	0.461 in	1161.16 lb/10000 ft	Dca
1123167	ÖLFLEX® CLASSIC 130 H 4G6	4	Yes	6 mm <sup>2</sup>	0.512 in	1548.22 lb/10000 ft	Dca
1123168	ÖLFLEX® CLASSIC 130 H 5G6	5	Yes	6 mm <sup>2</sup>	0.571 in	1935.27 lb/10000 ft	Dca
1123169	ÖLFLEX® CLASSIC 130 H 7G6	7	Yes	6 mm <sup>2</sup>	0.63 in	2709.4 lb/10000 ft	Dca
1123172	ÖLFLEX® CLASSIC 130 H 4G10	4	Yes	10 mm <sup>2</sup>	0.638 in	2580.36 lb/10000 ft	Dca
1123173	ÖLFLEX® CLASSIC 130 H 5G10	5	Yes	10 mm <sup>2</sup>	0.713 in	3225.45 lb/10000 ft	Dca
1123177	ÖLFLEX® CLASSIC 130 H 4G16	4	Yes	16 mm <sup>2</sup>	0.74 in	4128.5 lb/10000 ft	Dca
1123178	ÖLFLEX® CLASSIC 130 H 5G16	5	Yes	16 mm <sup>2</sup>	0.835 in	5160.72 lb/10000 ft	Dca
1123181	ÖLFLEX® CLASSIC 130 H 4G25	4	Yes	25 mm <sup>2</sup>	0.925 in	6450.2 lb/10000 ft	Dca
1123182	ÖLFLEX® CLASSIC 130 H 5G25	5	Yes	25 mm <sup>2</sup>	1.039 in	8063.63 lb/10000 ft	Dca
1123185	ÖLFLEX® CLASSIC 130 H 4G35	4	Yes	35 mm <sup>2</sup>	1.047 in	9031.26 lb/10000 ft	Dca

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