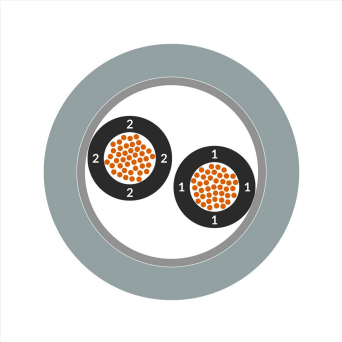
ÖLFLEX® CLASSIC FD 810 2X0,5

Article No.: 0026100

Power and control cable; 2X0.5; Core-Line; U_0/U: 300/500 V; PVC; Core identification: Numbers; Cable chain





Details

Benefits

- Highly flexible cable design means excellent product performance.
- Durable cable chain use with medium travel distances or increased acceleration (LAPP performance class “Core Line”).
- Shorter conductor stranding allows very small bending radii.

Application

- The cable design allows flexible, continuously flexing use in moving machine parts and in the cable chain.
- For use in control, regulating and measurement circuits.
- 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.

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

When used in cable chains: please follow the T3 technical assembly guidelines

Bending cycles and usage parameters: please refer to the A2-1 selection table

Technical Data

General information

Brand	ÖLFLEX®
Product type	Power and control cable
Copper index	67.2 lb/10000 ft
Performance class	Core-Line
Industry segment	Agricultural & Farm Machinery Assembly Machines Automotive Construction Machinery Energy Food & Beverage Healthcare & Pharma Intralogistics & Material handling Machine Tools Packaging Process Industry Robotics Solar
customs code	8544499000

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Electrical parameters

Nominal voltage	U_0/U: 300/500 V AC rms according to IEC
test voltage	4 kV
Current rating according to	VDE 0298-4

Product design

Cable dimension	2X0.5
Nominal conductor cross-section (metric)	0.5 mm²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 6: extra-fine wire
Including protective ground	No
Number of cores	2
Stranding type	Layered Stranding
Wrapping above stranding	Fleece Wrapping
Shielded	No
Nominal outer diameter	0.209 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
Colour outer sheath RAL code	RAL 7001
Core identification	Numbers
Conductor color code	EN 50334 VDE 0293-1

Product features

Application area	Cable chain Flexible
For permanent bending	Yes
For torsional load	No

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Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	0.835 in
Minimum bending radius, dynamic continuously flexing	7.5 x outer diameter
Minimum bending radius in inch, dynamic continuously flexing	1.567 in
Minimum bending radius, occasionally moved	7.5 x outer diameter
Minimum bending radius in inch, occasionally flexing	1.567 in
Maximum bending cycles	7,000,000
Maximum travel distance	65.617 ft
Maximum speed sliding	16.404 ft/s
Maximum self-supporting speed	32.808 ft/s
Maximum acceleration	65.617 ft/s²
Temperature, fixed installation	-40 °C to 80 °C max. conductor temperature
Temperature, fixed installation max	80 °C
Temperature, fixed installation min	-40 °C
Temperature, occasionally moved	0 °C to 70 °C max. conductor temperature
Temperature, occasionally moved max	70 °C
Temperature, occasionally moved min	0 °C
temperature, dynamic permanently moved	0 °C to 70 °C max. conductor temperature
temperature, dynamic permanently moved max	70 °C
temperature, dynamic permanently moved min	0 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
UV-resistant	No
Halogenfree	No
Oil resistant	No
PWIS-free	Yes

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PWIS-free according to	VDMA 24364-B2-L
Low-adhesive jacket surface	Yes

Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	ЕАЭС N RU Д-DE.АЮ64.В.00130/20
Resistance to flame propagation tested according to UN/ECE-R118	No

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ÖLFLEX® CLASSIC FD 810

Article No.	Name	Number of cores	Including protective ground	Nominal conductor cross-section (metric)	Nominal outer diameter	Copper index
0026100	ÖLFLEX® CLASSIC FD 810 2X0,5	2	No	0.5 mm²	0.209 in	67.2 lb/10000 ft
0026101	ÖLFLEX® CLASSIC FD 810 3G0,5	3	Yes	0.5 mm²	0.224 in	100.8 lb/10000 ft
0026102	ÖLFLEX® CLASSIC FD 810 4G0,5	4	Yes	0.5 mm²	0.248 in	129 lb/10000 ft
0026103	ÖLFLEX® CLASSIC FD 810 5G0,5	5	Yes	0.5 mm²	0.268 in	161.3 lb/10000 ft
0026104	ÖLFLEX® CLASSIC FD 810 7G0,5	7	Yes	0.5 mm²	0.315 in	228.44 lb/10000 ft
0026105	ÖLFLEX® CLASSIC FD 810 12G0,5	12	Yes	0.5 mm²	0.374 in	389.7 lb/10000 ft
0026106	ÖLFLEX® CLASSIC FD 810 18G0,5	18	Yes	0.5 mm²	0.449 in	580.5 lb/10000 ft
0026107	ÖLFLEX® CLASSIC FD 810 25G0,5	25	Yes	0.5 mm²	0.539 in	806.3 lb/10000 ft
0026108	ÖLFLEX® CLASSIC FD 810 30G0,5	30	Yes	0.5 mm²	0.563 in	967.5 lb/10000 ft
0026109	ÖLFLEX® CLASSIC FD 810 34G0,5	34	Yes	0.5 mm²	0.614 in	1101.9 lb/10000 ft
0026110	ÖLFLEX® CLASSIC FD 810 50G0,5	50	Yes	0.5 mm²	0.728 in	1612.56 lb/10000 ft
0026119	ÖLFLEX® CLASSIC FD 810 2X0,75	2	No	0.75 mm²	0.224 in	100.8 lb/10000 ft
0026120	ÖLFLEX® CLASSIC FD 810 3G0,75	3	Yes	0.75 mm²	0.244 in	147.8 lb/10000 ft
0026121	ÖLFLEX® CLASSIC FD 810 4G0,75	4	Yes	0.75 mm²	0.268 in	194.85 lb/10000 ft
0026122	ÖLFLEX® CLASSIC FD 810 5G0,75	5	Yes	0.75 mm²	0.291 in	248.6 lb/10000 ft
0026123	ÖLFLEX® CLASSIC FD 810 7G0,75	7	Yes	0.75 mm²	0.35 in	342.7 lb/10000 ft
0026124	ÖLFLEX® CLASSIC FD 810 12G0,75	12	Yes	0.75 mm²	0.417 in	584.55 lb/10000 ft
0026125	ÖLFLEX® CLASSIC FD 810 16G0,75	16	Yes	0.75 mm²	0.472 in	779.4 lb/10000 ft
0026126	ÖLFLEX® CLASSIC FD 810 18G0,75	18	Yes	0.75 mm²	0.5 in	873.5 lb/10000 ft
0026127	ÖLFLEX® CLASSIC FD 810 25G0,75	25	Yes	0.75 mm²	0.598 in	1216.1 lb/10000 ft
0026130	ÖLFLEX® CLASSIC FD 810 2X1	2	No	1 mm²	0.24 in	127.7 lb/10000 ft
0026131	ÖLFLEX® CLASSIC FD 810 3G1	3	Yes	1 mm²	0.26 in	194.9 lb/10000 ft
0026132	ÖLFLEX® CLASSIC FD 810 4G1	4	Yes	1 mm²	0.287 in	262.04 lb/10000 ft
0026133	ÖLFLEX® CLASSIC FD 810 5G1	5	Yes	1 mm²	0.315 in	322.5 lb/10000 ft
0026134	ÖLFLEX® CLASSIC FD 810 7G1	7	Yes	1 mm²	0.378 in	450.2 lb/10000 ft
0026135	ÖLFLEX® CLASSIC FD 810 12G1	12	Yes	1 mm²	0.449 in	772.7 lb/10000 ft
0026136	ÖLFLEX® CLASSIC FD 810 14G1	14	Yes	1 mm²	0.484 in	903 lb/10000 ft
0026137	ÖLFLEX® CLASSIC FD 810 16G1	16	Yes	1 mm²	0.512 in	1028 lb/10000 ft
0026138	ÖLFLEX® CLASSIC FD 810 18G1	18	Yes	1 mm²	0.547 in	1162.4 lb/10000 ft
0026139	ÖLFLEX® CLASSIC FD 810 25G1	25	Yes	1 mm²	0.646 in	1612.56 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
0026140	ÖLFLEX® CLASSIC FD 810 26G1	26	Yes	1 mm²	0.646 in	1677.1 lb/10000 ft
0026141	ÖLFLEX® CLASSIC FD 810 34G1	34	Yes	1 mm²	0.744 in	2193.1 lb/10000 ft
0026142	ÖLFLEX® CLASSIC FD 810 41G1	41	Yes	1 mm²	0.811 in	2647.3 lb/10000 ft
0026143	ÖLFLEX® CLASSIC FD 810 50G1	50	Yes	1 mm²	0.878 in	3225.1 lb/10000 ft
0026144	ÖLFLEX® CLASSIC FD 810 65G1	65	Yes	1 mm²	1 in	4192.7 lb/10000 ft
0026149	ÖLFLEX® CLASSIC FD 810 2X1,5	2	No	1.5 mm²	0.268 in	194.9 lb/10000 ft
0026150	ÖLFLEX® CLASSIC FD 810 3G1,5	3	Yes	1.5 mm²	0.291 in	290.3 lb/10000 ft
0026151	ÖLFLEX® CLASSIC FD 810 4G1,5	4	Yes	1.5 mm²	0.319 in	389.7 lb/10000 ft
0026152	ÖLFLEX® CLASSIC FD 810 5G1,5	5	Yes	1.5 mm²	0.358 in	483.76 lb/10000 ft
0026153	ÖLFLEX® CLASSIC FD 810 7G1,5	7	Yes	1.5 mm²	0.429 in	678.6 lb/10000 ft
0026154	ÖLFLEX® CLASSIC FD 810 12G1,5	12	Yes	1.5 mm²	0.508 in	1162.4 lb/10000 ft
0026156	ÖLFLEX® CLASSIC FD 810 18G1,5	18	Yes	1.5 mm²	0.614 in	1740.2 lb/10000 ft
0026157	ÖLFLEX® CLASSIC FD 810 25G1,5	25	Yes	1.5 mm²	0.732 in	2418.84 lb/10000 ft
0026158	ÖLFLEX® CLASSIC FD 810 26G1,5	26	Yes	1.5 mm²	0.732 in	2515.6 lb/10000 ft
0026159	ÖLFLEX® CLASSIC FD 810 34G1,5	34	Yes	1.5 mm²	0.831 in	3289.6 lb/10000 ft
0026160	ÖLFLEX® CLASSIC FD 810 41G1,5	41	Yes	1.5 mm²	0.906 in	4118.74 lb/10000 ft
0026161	ÖLFLEX® CLASSIC FD 810 42G1,5	42	Yes	1.5 mm²	0.906 in	4226.3 lb/10000 ft
0026162	ÖLFLEX® CLASSIC FD 810 50G1,5	50	Yes	1.5 mm²	0.984 in	4837.7 lb/10000 ft
0026170	ÖLFLEX® CLASSIC FD 810 3G2,5	3	Yes	2.5 mm²	0.354 in	483.8 lb/10000 ft
0026171	ÖLFLEX® CLASSIC FD 810 4G2,5	4	Yes	2.5 mm²	0.394 in	645 lb/10000 ft
0026172	ÖLFLEX® CLASSIC FD 810 5G2,5	5	Yes	2.5 mm²	0.441 in	806.3 lb/10000 ft
0026173	ÖLFLEX® CLASSIC FD 810 7G2,5	7	Yes	2.5 mm²	0.535 in	1128.8 lb/10000 ft
0026174	ÖLFLEX® CLASSIC FD 810 12G2,5	12	Yes	2.5 mm²	0.63 in	1935.07 lb/10000 ft
0026175	ÖLFLEX® CLASSIC FD 810 14G2,5	14	Yes	2.5 mm²	0.677 in	2257.6 lb/10000 ft
0026180	ÖLFLEX® CLASSIC FD 810 3G4	3	Yes	4 mm²	0.417 in	806.3 lb/10000 ft
0026181	ÖLFLEX® CLASSIC FD 810 4G4	4	Yes	4 mm²	0.461 in	1075.04 lb/10000 ft
0026182	ÖLFLEX® CLASSIC FD 810 5G4	5	Yes	4 mm²	0.516 in	1343.8 lb/10000 ft
0026183	ÖLFLEX® CLASSIC FD 810 4G6	4	Yes	6 mm²	0.547 in	1548.1 lb/10000 ft
0026184	ÖLFLEX® CLASSIC FD 810 5G6	5	Yes	6 mm²	0.61 in	1935.1 lb/10000 ft
0026185	ÖLFLEX® CLASSIC FD 810 4G10	4	Yes	10 mm²	0.693 in	2580.1 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
0026186	ÖLFLEX® CLASSIC FD 810 5G10	5	Yes	10 mm²	0.772 in	3225.1 lb/10000 ft
0026187	ÖLFLEX® CLASSIC FD 810 4G16	4	Yes	16 mm²	0.811 in	4132.2 lb/10000 ft
0026188	ÖLFLEX® CLASSIC FD 810 5G16	5	Yes	16 mm²	0.909 in	5160.2 lb/10000 ft

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