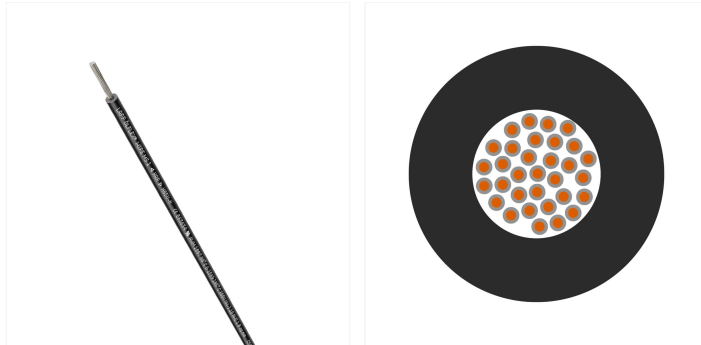


ÖLFLEX® WIRE MS 1 1X1 BN**Article No.:** 4180603

Single conductor; 1X1; brown; Ring; U₀/U: 300/500 V; PVC; HAR-certified; UL recognized;
Fixed Installation

**Details****Benefits**

- Made in accordance with harmonized European design H05V-K, with <HAR>testing mark for proven reliability and quality.
- 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.
- Compact design for easy processing.
- Versatile use in various applications and environments.
- Classified fire behavior according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- Different conductor insulation colors available.
- Available as a ring or in a large, disposable cardboard box. Large cardboard boxes are available depending on the color and cross-section and generally only up to 6 mm² (0.01 in²) conductor cross-section.

Application

- For wiring circuits inside machines.
- Suitable for wiring inside control cabinets.
- For fixed and protected installation.

- Can be used in dry and damp rooms.
- Use at temperatures up to 40°C possible.

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

Formerly MULTI-STANDARD SC 1

Technical Data

General information

Brand	ÖLFLEX®
Product type	Single conductor
Copper index	64.5 lb/10000 ft
Single core packaging type	Ring
Length per PU	328.084 ft
Industry segment	Ships & boats

Electrical parameters

Nominal voltage	U ₀ /U: 300/500 V AC rms according to IEC
Rated voltage	300 V AC rms according to UL AWM 300 V AC rms according to CSA AWM
test voltage	2 kV

Product design

Harmonized product type	H05V-K
Cable dimension	1X1
Nominal cross section conductor (mm ²)	1 mm ²
Nominal cross section conductor (AWG)	18 AWG
Leading conductor cross-section	mm ²
Conductor material	Tin-plated Copper
Conductor design	IEC 60228 class 5: fine-wire
Number of cores	1
Nominal outer diameter	0.098 in
Cable form	Round
Core insulation base material	Polyvinylchloride
Conductor insulation basic material, short form	PVC
Single core color	brown
Single conductor identification	Single-colored

Product features

Application area	Fixed Installation
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	0.394 in
Minimum bending radius with careful bending	2 x outer diameter
Temperature, fixed installation	to 105 °C max. conductor temperature according to UL AWM -40 °C to 70 °C max. conductor temperature according to IEC to 105 °C max. conductor temperature according to CSA AWM
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 UL VW-1 CSA FT1
UV-resistant	No
weather resistant	No

Ozone-resistant	No
Halogenfree	No
Oil resistant	Yes
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, EAЭC N RU Д-DE.АЮ64.В.00142/20
UL recognized	Yes
UL AWM certification	1007 according to UL 758 (e-file number: E63634) 1569 according to UL 758 (e-file number: E63634)
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	Yes
CSA certification	AWM I B according to CSA C22.2 No. 210 AWM I A according to CSA C22.2 No. 210
VDE certified	No
HAR-certified	Yes
Product standard DIN / EN	EN 50525-2-31
CPR fire class	Eca
Resistance to flame propagation tested according to UN/ECE-R118	No

ÖLFLEX® WIRE MS 1

Article No.	Name	Nominal cross section conductor (mm ²)	Single core color	Single core packaging type	Length per PU	Nominal outer diameter	Copper index
4180400	ÖLFLEX® WIRE MS 1 1X0,5 GNYE	0.5 mm ²	green/yellow	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180401	ÖLFLEX® WIRE MS 1 1X0,5 BK	0.5 mm ²	black	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180402	ÖLFLEX® WIRE MS 1 1X0,5 BU	0.5 mm ²	blue	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180403	ÖLFLEX® WIRE MS 1 1X0,5 BN	0.5 mm ²	brown	Ring	328.084 ft	0.087 in	32.3 lb/10000 ft
4180404	ÖLFLEX® WIRE MS 1 1X0,5 RD	0.5 mm ²	red	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180405	ÖLFLEX® WIRE MS 1 1X0,5 WH	0.5 mm ²	white	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180406	ÖLFLEX® WIRE MS 1 1X0,5 GY	0.5 mm ²	gray	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180407	ÖLFLEX® WIRE MS 1 1X0,5 VT	0.5 mm ²	violet	Ring	328.084 ft	0.087 in	32.3 lb/10000 ft
4180409	ÖLFLEX® WIRE MS 1 1X0,5 OG	0.5 mm ²	orange	Ring	328.084 ft	0.087 in	32.3 lb/10000 ft
4180410	ÖLFLEX® WIRE MS 1 1X0,5 YE	0.5 mm ²	yellow	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180414	ÖLFLEX® WIRE MS 1 1X0,5 DBU	0.5 mm ²	dark blue	Ring	328.084 ft	0.087 in	32.25 lb/10000 ft
4180414K	ÖLFLEX® WIRE MS 1 EMBOSS 1X0,5 DBU	0.5 mm ²	dark blue	Large Cardboard Box	9,842.52 ft	0.087 in	32.25 lb/10000 ft
4180500	ÖLFLEX® WIRE MS 1 1X0,75 GNYE	0.75 mm ²	green/yellow	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180501	ÖLFLEX® WIRE MS 1 1X0,75 BK	0.75 mm ²	black	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180501K	ÖLFLEX® WIRE MS 1 EMBOSS 1X0,75 BK	0.75 mm ²	black	Large Cardboard Box	8,202.1 ft	0.094 in	48.38 lb/10000 ft
4180502	ÖLFLEX® WIRE MS 1 1X0,75 BU	0.75 mm ²	blue	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180503	ÖLFLEX® WIRE MS 1 1X0,75 BN	0.75 mm ²	brown	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180504	ÖLFLEX® WIRE MS 1 1X0,75 RD	0.75 mm ²	red	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180505	ÖLFLEX® WIRE MS 1 1X0,75 WH	0.75 mm ²	white	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180506	ÖLFLEX® WIRE MS 1 1X0,75 GY	0.75 mm ²	gray	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180507	ÖLFLEX® WIRE MS 1 1X0,75 VT	0.75 mm ²	violet	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180514	ÖLFLEX® WIRE MS 1 1X0,75 DBU	0.75 mm ²	dark blue	Ring	328.084 ft	0.094 in	48.4 lb/10000 ft
4180600	ÖLFLEX® WIRE MS 1 1X1 GNYE	1 mm ²	green/yellow	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180601	ÖLFLEX® WIRE MS 1 1X1 BK	1 mm ²	black	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180602	ÖLFLEX® WIRE MS 1 1X1 BU	1 mm ²	blue	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180603	ÖLFLEX® WIRE MS 1 1X1 BN	1 mm ²	brown	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180604	ÖLFLEX® WIRE MS 1 1X1 RD	1 mm ²	red	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180605	ÖLFLEX® WIRE MS 1 1X1 WH	1 mm ²	white	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180606	ÖLFLEX® WIRE MS 1 1X1 GY	1 mm ²	gray	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180607	ÖLFLEX® WIRE MS 1 1X1 VT	1 mm ²	violet	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft

Article No.	Name	Nominal cross section conductor (mm ²)	Single core color	Single core packaging type	Length per PU	Nominal outer diameter	Copper index
4180609	ÖLFLEX® WIRE MS 1 1X1 OG	1 mm ²	orange	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180610	ÖLFLEX® WIRE MS 1 1X1 YE	1 mm ²	yellow	Ring	328.084 ft	0.098 in	161.25 lb/10000 ft
4180611	ÖLFLEX® WIRE MS 1 1X1 GN	1 mm ²	green	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft
4180614	ÖLFLEX® WIRE MS 1 1X1 DBU	1 mm ²	dark blue	Ring	328.084 ft	0.098 in	64.5 lb/10000 ft

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