

ÖLFLEX® CONTROL TM CY 4G10

Article No.: 280804CY

Power and control cable; 4G10; U_0/U : 0,6/1 kV; Conductor identification: Numbers; Shielded; UL listed; Flexible



Details

Benefits

- Cable especially developed for use in the USA.
- Versatile use in various applications and environments.
- Ideal protection against electromagnetic interference thanks to double shielding made of aluminum-laminated foil and copper stranded shielding with a high degree of coverage.
- 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.
- Doing away with cable protection systems facilitates easy, cost-saving installation.
- Particularly oil-resistant and flame retardant.

Application

- Suitable in the USA for wiring of industrial machinery and machine tools, for open installation in cable trays without protective cable conduit.
- Suitable for torsion applications in wind turbines in the USA and Europe.
- For universal use in Europe for the wiring of cross-plant control circuits and control circuits inside machines, for fixed installation and occasional flexing.

- Can be used in dry, damp and oily environments.
- Suitable for medium mechanical stress.
- Suitable for outdoor use in the USA and Europe, subject to the temperature range.
- Suitable for direct underground installation in the USA.
- Flexible use at temperatures down to -25°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.

Remarks

Technical Data

General information

Brand	ÖLFLEX®
Product type	Power and control cable
Copper index	3170 lb/10000 ft
Industry segment	Assembly Machines Automotive Construction Machinery Energy Food & Beverage Healthcare & Pharma Intralogistics & Material handling Machine Tools Packaging Process Industry

Electrical parameters

Nominal voltage	U ₀ /U: 0,6/1 kV AC rms according to IEC
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Rated voltage	600 V AC rms according to UL TC 600 V AC rms according to c(UL) CIC/TC 600 V AC rms according to UL MTW 1000 V AC rms according to UL WTTC 1000 V AC rms according to UL AWM 1200 V DC according to UL AWM
test voltage	2 kV
Current rating according to	NEC / NFPA 70 NFPA 79 IEC 60364-5-52

Product design

Cable dimension	4G10
Nominal cross section conductor (mm ²)	10 mm ²
Nominal cross section conductor (AWG)	8 AWG
Leading conductor cross-section	mm ²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	Yes
Number of cores	4
Stranding type	Layered Stranding
Shielded	Yes
Type of overall shielding	Aluminum-laminated plastic foil Tin-plated copper braiding
Optical degree of coverage of the stranded shielding, overall shield	85 %
Nominal conductor diameter	0.235 in
Min. outer diameter	0.693 in
Nominal outer diameter	0.728 in
Max. outer diameter	0.763 in
Cable form	Round
Core insulation base material	Polyvinylchloride
Conductor insulation basic material, short form	PVC
Insulation skin	Nylon
Basic material of outer jacket	Thermoplastic

Outer jacket color	gray
Core identification	Numbers

Product features

Application area	Flexible Fixed Installation Torsion
For torsional load	Yes
Suitable for use in accordance with NEC chapter 5	Class I Division 2
Minimum bending radius, stationary	6 x outer diameter
Minimum bending radius in inch, fixed installation	4.579 in
Minimum bending radius, occasionally moved	6 x outer diameter
Minimum bending radius in mm, occasionally moved	4.579 in
Torsion	For +/- 150 °/m and min. -40 °C up to 2000 Torsion cycles For +/- 150 °/m and min. 5 °C up to 5000 Torsion cycles
Temperature, fixed installation	-40 °C to 70 °C max. conductor temperature according to IEC -25 °C to 90 °C max. conductor temperature according to UL MTW -25 °C to 90 °C max. conductor temperature according to UL/CSA TC -40 °C to 105 °C max. conductor temperature according to UL AWM -40 °C to 105 °C max. conductor temperature according to CSA AWM

Temperature, occasionally moved	-25 °C to 105 °C max. conductor temperature according to CSA AWM -25 °C to 70 °C max. conductor temperature according to IEC -25 °C to 90 °C max. conductor temperature according to UL MTW -25 °C to 105 °C max. conductor temperature according to UL AWM -25 °C to 90 °C max. conductor temperature according to UL/CSA TC
Storage temperature max.	-40 °C
Storage temperature maximum	40 °C
Flame-retardant	Yes
Flame retardance according to	UL Vertical-Tray Flame Test CSA FT4 IEC 60332-3-24
UV-resistant	Yes
UV-resistant according to	UL sunlight resistant
weather resistant	Yes
Ozone-resistant	Yes
Halogenfree	No
Oil resistant	Yes
Oil resistance according to	UL OILRES I UL OILRES II CSA C22.2 No. 210-15
Water resistant	Yes
Mechanically resistant	Yes

Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	EA3C RU C-DE.A1064.B.00091/19
UL recognized	Yes
UL AWM certification	20886 according to UL 758 (e-file number: E100338)
UL listed	Yes

UL certification

UL TC-ER according to UL 1277 (e-file number: E171371)
 UL 75°C WET according to UL 1277 (e-file number: E171371)
 UL 90°C DRY according to UL 1277 (e-file number: E171371)
 UL MTW according to UL 1063 (e-file number: E155920)
 UL WTTC according to UL 2277 (e-file number: E323700)
 UL SUN RES according to UL 1277 (e-file number: E171371)
 UL DIR BUR according to UL 1277 (e-file number: E171371)
 UL Submersible Pump Cable according to UL 83 (e-file number: E172162)
 UL DP-1 according to UL 1690 (e-file number: E233406)
 UL THWN according to UL 83 (e-file number: E172162)
 UL THHN according to UL 83 (e-file number: E172162)

cUR recognized	No
cUL listed	Yes
cUL certification	cUL CIC/TC 600V according to CSA C22.2 No. 239 (e-file number: E171371)
CSA certified	Yes

CSA certification	AWM I A according to CSA C22.2 No. 210 AWM I B according to CSA C22.2 No. 210 AWM II A according to CSA C22.2 No. 210 AWM II B according to CSA C22.2 No. 210
VDE certified	No
HAR-certified	No
Ecolab certified	Yes

ÖLFLEX® CONTROL TM CY

Article No.	Name	Nominal cross section conductor (AWG)	Nominal cross section conductor (mm ²)	Number of cores	Including protective ground	Nominal outer diameter	Copper index (lb)
280804CY	ÖLFLEX® CONTROL TM CY 4G10	8 AWG	10 mm ²	4	Yes	0.728 in	
281004CY	ÖLFLEX® CONTROL TM CY 4G6 10/4C	10 AWG	6 mm ²	4	Yes	0.602 in	
281005CY	ÖLFLEX® CONTROL TM CY 5G6 10/5C	10 AWG	6 mm ²	5	Yes	0.654 in	
281204CY	ÖLFLEX® CONTROL TM CY 4G4 12/4C	12 AWG	4 mm ²	4	Yes	0.484 in	
281205CY	ÖLFLEX® CONTROL TM CY 5G4 12/5C	12 AWG	4 mm ²	5	Yes	0.559 in	
281207CY	ÖLFLEX® CONTROL TM CY 7G4 12/7C	12 AWG	4 mm ²	7	Yes	0.602 in	
281403CY	ÖLFLEX® CONTROL TM CY 3G2.5 14 /3C	14 AWG	2.5 mm ²	3	Yes	0.382 in	
281404CY	ÖLFLEX® CONTROL TM CY 4G2.5 14 /4C	14 AWG	2.5 mm ²	4	Yes	0.409 in	
281405CY	ÖLFLEX® CONTROL TM CY 5G2.5 14 /5C	14 AWG	2.5 mm ²	5	Yes	0.453 in	
281407CY	ÖLFLEX® CONTROL TM CY 7G2.5 14 /7C	14 AWG	2.5 mm ²	7	Yes	0.488 in	
281603CY	ÖLFLEX® CONTROL TM CY 3G1.5 16 /3C	16 AWG	1.5 mm ²	3	Yes	0.343 in	
281604CY	ÖLFLEX® CONTROL TM CY 4G1.5 16 /4C	16 AWG	1.5 mm ²	4	Yes	0.37 in	
281605CY	ÖLFLEX® CONTROL TM CY 5G1.5 16 /5C	16 AWG	1.5 mm ²	5	Yes	0.402 in	
281607CY	ÖLFLEX® CONTROL TM CY 7G1.5 16 /7C	16 AWG	1.5 mm ²	7	Yes	0.437 in	
281612CY	ÖLFLEX® CONTROL TM CY 12G1.5 16 /12C	16 AWG	1.5 mm ²	12	Yes	0.587 in	
281618CY	ÖLFLEX® CONTROL TM CY 18G1.5 16 /18C	16 AWG	1.5 mm ²	18	Yes	0.673 in	
281625CY	ÖLFLEX® CONTROL TM CY 25G1.5 16 /25C	16 AWG	1.5 mm ²	25	Yes	0.764 in	
281803CY	ÖLFLEX® CONTROL TM CY 3G1 18/3C	18 AWG	1 mm ²	3	Yes	0.315 in	
281804CY	ÖLFLEX® CONTROL TM CY 4G1 18/4C	18 AWG	1 mm ²	4	Yes	0.339 in	
281805CY	ÖLFLEX® CONTROL TM CY 5G1 18/5C	18 AWG	1 mm ²	5	Yes	0.366 in	

Article No.	Name	Nominal cross section conductor (AWG)	Nominal cross section conductor (mm ²)	Number of cores	Including protective ground	Nominal outer diameter	Copper index (lb)
281807CY	ÖLFLEX® CONTROL TM CY 7G1 18/7C	18 AWG	1 mm ²	7	Yes	0.394 in	
281812CY	ÖLFLEX® CONTROL TM CY 12G1 18 /12C	18 AWG	1 mm ²	12	Yes	0.504 in	
281818CY	ÖLFLEX® CONTROL TM CY 18G1	18 AWG	1 mm ²	18	Yes	0.61 in	
281819CY	ÖLFLEX® CONTROL TM CY 19G1 18 /19C	18 AWG	1 mm ²	19	Yes	0.61 in	
281825CY	ÖLFLEX® CONTROL TM CY 25G1 18 /25C	18 AWG	1 mm ²	25	Yes	0.685 in	

V1.1