ÖLFLEX® TORSION FRNC

Cold and oil-resistant cables for flexible applications under torsional load, halogen-free - 0.6/1 kV

ÖLFLEX® TORSION FRNC: UL: cRUus AWM (II A/B) OIL RES I+II, power + control cable 0.6/1 kV, wind turbine drip loop torsion -40°C/+90°C, HFFR/ LS0H UV +Ozone res.

Info

Torsion resistant, Cold flexible and Oil resistant for drip loops
Halogen-free, Highly flame retardant, Low smoke density




Suitable for outdoor use


Flame-retardant


Halogen-free


Cold-resistant


Mechanical resistance


Oil-resistant


Torsion-resistant



UV-resistant

Application range

Stationary or Flexible
Torsion in Wind Turbines

Product features

Torsion resistant up to ±150 °/m for the drip loop of wind turbine generators
Resistant to weather, abrasion, temperature, sunlight (EN 50525-1, EN 50618, EN 50620, EN ISO 4892-2/ Method A) and ozone (EN 50396)
Resistant to splashes of sea water as well as broad oil resistance, incl. EN 60811-404 and UL OIL RES I + II
Fire behaviour:
- Halogen-free (IEC 60754-1);
- Low corrosivity (IEC 60754-2);
- Low smoke density (IEC 61034-2);
- Highly flame retardant (IEC 60332-3-24

Last Update (21.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ÖLFLEX® TORSION FRNC

and -25; IEC 60332-1-2)

Norm references / Approvals
UL AWM Style 21288

Product Make-up
Extra-fine wire conductor made of bare copper
Core insulation: polyolefin compound
Optional, overall shielding (D version) reducing electromagnetic interferences by tinned copper wire wrapping
Outer sheath: special compound, halogen-free, black (RAL 9005)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Core identification code:	HD 308 coloured up to 5 cores, from 6 cores all black with white numbers (except PE) Paired signal cables: DIN 47100
Conductor stranding:	IEC 60228, Cl. 6
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius:	Flexible: 10x Outer diameter Stationary: 6x Outer diameter
Nominal voltage:	IEC U_0/U=0.6/1kV; UL 1kV
Test voltage:	C/C: 4000 V
Temperature range:	-40 °C to +90 °C UL: max. +80 °C

Note
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: Drum
Details of the clamping force are available upon request, halogen-free.
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

©2024 Lapp Group - Technical changes reserved

ÖLFLEX® TORSION FRNC

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1150373	12 G 1.0	13.2	115.2	274
1150378	16 G 1.0	14.8	153.6	392
1150271	3 G 1.5	9	43.2	131
1150272	4 G 1.5	9.7	57.6	156
1150273	5 G 1.5	10.6	72	183
1150275	7 G 1.5	12.6	100.8	253
1150279	12 G 1.5	15.3	172.8	386
1150311	3 G 2.5	10.4	72	181
1150312	4 G 2.5	11.3	96	242
1150313	5 G 2.5	12.4	120	258
1150350	3 G 4.0	11.9	115.2	254
1150351	4 G 4.0	13	153.6	313
1150357	5 G 6.0	16	288	486
1150362	5 G 10.0	20.5	480	799

Last Update (21.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.