

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 (24.04.2024)

©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 $U_0/U=0.6/1$ kV; 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.

ÖLFLEX® TORSION FRNC

Article number	Number of cores and mm ² 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