

ÖLFLEX® TORSION D FRNC

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

ÖLFLEX® TORSION D 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, Screened

Info

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



UV-resistant



Torsion-resistant



Interference signals



Oil-resistant



Mechanical resistance



Halogen-free



Suitable for outdoor use



Flame-retardant

Last Update (29.06.2018)

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

ÖLFLEX® TORSION D FRNC



Cold-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 (ISO 4892-2) 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 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: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control 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 C/S: 2000 V
Temperature range:	-40 °C to +90 °C UL: max. +80 °C

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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.

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® TORSION D FRNC - screened				
1150111	4 x 2.0 x 0.5	11.9	71	205
1150115	12 x 2.0 x 0.5	18.3	188	518
1150121	4 x 2.0 x 0.75	12.7	90	232
1150125	12 x 2.0 x 0.75	19.8	258	603
1150221	18 G 0.75	15.2	180	402
1150228	50 G 0.75	24.9	470	1079

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