

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, cULus AWM (II A/B) OIL RES I+II, power and control cable 0.6/1 kV, drip loop/wind energy torsion -40°C/+90°C, HFFR/ LS0H, shielded

Info

Torsion-resistant, flexible at cold temperatures 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 (27.05.2017)

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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

Design

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

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Core identification code:	HD 308 coloured up to 5 cores, from 6 cores all black with white numbers (except PE) Pair signal cables: DIN 47100
Conductor design:	IEC 60228, Cl. 6
Torsion application 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 C/S: 2000 V
Temperature range:	-40°C to +90°C (UL +80°C)

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Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Drum

Other versions are available upon request

Photographs 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 D FRNC**

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® TORSION D FRNC - shielded				
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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