

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



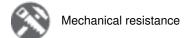




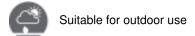


















Application range

Stationary or Flexible Torsion in Wind Turbines

Product features

Torsion resistant up to $\pm 150\,^{\circ}$ /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

Test voltage:

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 $U_0/U=0.6/1kV$; UL 1kV

C/C: 4000 V C/S: 2000 V

Temperature range: -40°C to +90°C (UL +80°C)



Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they 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.

Outer diameter [mm] Copper index (kg/km) Weight (kg/km) Article number Number of cores and mm² per conductor ÖLFLEX® TORSION D FRNC - shielded 71 4 x 2.0 x 0.5 11.9 205 1150111 1150115 12 x 2.0 x 0.5 18.3 188 518 90 1150121 4 x 2.0 x 0.75 12.7 232 1150125 12 x 2.0 x 0.75 19.8 258 603 1150221 18 G 0.75 15.2 180 402 50 G 0.75 1150228 24.9 470 1079