

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)

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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

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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.

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| 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 |

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