

ÖLFLEX® FORTIS

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Application

OLFLEX® FORTIS is a flexible Tray- and Machine Tool Cable with increased oil resistance. Multi-conductor, 600V, 90°C, UL multiple listed Type MTW, TC-ER and AWM, c (UL) CIC/TC, CSA AWM, flexible cable for Control-, Power- and Lightning circuits. For fixed installation and medium mechanical stress. In accordance to NFPA 79 Edition 2007, Article 12. Wiring of industrial machines, especially in wet locations of metal processing machine tools, as well as wiring in Cable Trays in between machines acc. NEC. The cable has increased oil resistance and exposed run (ER) approval. In industrial establishments, where the conditions of maintenance and supervision ensure that only qualified persons service the installation, TC-ER shall be permitted between a cable tray and utilizations equipment or devices without conduits("exposed run"). For use in wet and dry locations. In Hazardous Locations Class 1, Div. 2 per NEC Art. 336, 392, 501. OLFLEX® FORTIS has a metric-sized fine stranded bare copper AWG conductors. Specially blended PVC/nylon insulation; specially formulated TPE jacket. Black.

Design

Design/Make-up	Cable is constructed in accordance with the requirements of the Underwriters Laboratories Inc.'s Standard for Machine Tool Wire per UL Standard 1063 as well as electrical Power and Control Tray Cables per UL Standard 1277 and 2277, AWM acc. to UL 756, CSA Standard C22.2 No 210 & 239
Core	fine wire strands of bare copper, metric sized
Core Insulation	Special formulated PVC / Nylon insulation
Core Identification	black cores with white numbers with GN/YE ground conductor
Outer sheath	Special TPE- compound, oil resistant (Oil res. I & II); flame retardant (FT4) Colour: Black

Electrical properties at 20 °C

Rated Voltage	1000V – UL AWM; 600V- UL Type TC, MTW; c(UL) CIC/TC, CSA AWM IEC: U _o /U 300/500V,
Test voltage	2000V

Mechanical and thermal properties

Min. bending radius	fixed installation:	5 x cable diameter
Temperature range	occasional flexing:	-40°C to +90°C (AWM: +105°C)
	fixed installation:	-55°C to +90°C (AWM: +105°C)
Flammability	CSA FT 4	
Approvals	USA: UL MTW (Machine Tool Wire/NFPA 79); UL Type TC- ER UL AWM; Class 1, Div. 2 per NEC Art. 336, 392, 501 c(UL) Type TC und CIC/TC FT4, -40°C Kanada: CSA AWM I/II A/B FT4	
Oil resistance	UL: Oil Res. I & II	
Torsion load	max. + 150°/mtr. / 20.000 cycles	
EC-Directive	This cable is conform to ECD 2006/95/EC (Low Voltage Directive) and to ECD 2002/95/EG (RoHS).	