

Robust, cold flexible and increased oil resistant cable - multiple UL listed

Product Description

Broad application range due to multiple approvals; Cost saving, easy installation due to renouncement of closed raceways (suitable for open wiring); For worldwide use; The high flexibility and the good dismantle and stripping properties enable easy space- saving cable installation and fast processing

LAPP KABEL STUTTGART ÖLFLEX® Fortis (UL) Type TC ER Oil Res I/II
E171371 MTW WTTC 1000V 90°C Dry c(UL) Control CIC/TC CE



Application range

- Industrial machinery; plant engineering
- Machine tools UL MTW (Machine Tool Wiring) conforming
- Direct usage inside metal processing cabins of machine tools due to increased oil- and wet rating
- TC-ER (Tray Cable Exposed Run) approval for open wiring between cable tray and industrial machines/plants acc. to NEC 336.10(7)
- Meets WTTC (UL2277) requirements

Benefits

- Broad application range due to multiple approvals
- Cost saving, easy installation due to renouncement of closed raceways (suitable for open wiring)
- For worldwide use
- The high flexibility and the good dismantle and stripping properties enable easy space- saving cable installation and fast processing

Design

- Fine strands of bare copper wires
- Insulation: PVC with nylon jacket (PA skin)
- Outer sheath of abrasion resistant TPE, black

Product features

- Torsion-resistant up to ± 150 °/mtr
- Flame retardant according to CSA FT4 UL Vertical-Tray Flame Test
- Increased oil resistant according to UL OIL RES I and UL OIL RES II
- Water resistant UL Wet Approval 75 °C

- Cold flexible

Technical Data

Core identification code

black with white numbers + GN/YE ground

Approvals

UL listed according: Type TC-ER (Exposed Run)
Type MTW or UL AWM, NPFA 79 2007 CSA listed
according: c(UL) Type TC and CIC FT-4 -40° C
CSA AWM I/II A/B FT-4 -40° C

Conductor stranding

Fine wire in accordance to VDE 0295 Class 5 / IEC
60228 Class 5

Minimum bending radius

5 x cable diameter

Rated voltage

UL/CSA: 600 V (TC, MTW, CIC), WTTTC 1000V
HAR U0/U: 300/500 V

Test voltage

2000 V

Protective conductor

G = with protective conductor GN/YE
X = without protective conductor

Range of temperature

Occasional flexing: -40°C to + 90°C (AWM +105°C)
Fixed installation: -55°C up to +90 °C (AWM +105°C)

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® FORTIS				
331803	3 G 1,0	7,5	28.8	85
331804	4 G 1,0	8,1	38.4	98
331805	5 G 1,0	8,8	48.0	115
331807	7 G 1,0	9,5	67.0	149
331809	9 G 1,0	10,9	87.0	167
331812	12 G 1,0	12,1	115.0	255
331818	18 G 1,0	14,9	173.0	365
331825	25 G 1,0	17,2	240.0	479
331603	3 G 1,5	8,3	43.0	103
331604	4 G 1,5	8,9	58.0	124
331605	5 G 1,5	9,7	72.0	146
331607	7 G 1,5	10,5	101.0	189
331609	9 G 1,5	12,1	130.0	255
331612	12 G 1,5	14,4	173.0	328



331616	16 G 1,5	15,8	230.4	403
331618	18 G 1,5	16,6	259.0	431
331625	25 G 1,5	18,8	360.0	592
331403	3 G 2,5	9,2	72.0	130
331404	4 G 2,5	10.0	96.0	159
331405	5 G 2,5	10,8	120.0	191
331407	7 G 2,5	11,8	168.0	252
331409	9 G 2,5	14,5	216.0	335
331412	12 G 2,5	16,2	288.0	459
331418	18 G 2,5	18,7	432.0	654
331425	25 G 2,5	22,5	600.0	874
331204	4 G 4	11,7	153.0	226
331205	5 G 4	12,8	192.0	279
331207	7 G 4	14,8	269.0	384
331004	4 G 6	14,7	231.0	394
331005	5 G 6	16.0	288.0	472
331007	7 G 6	17,4	405.0	661
330804	4 G 10	17,9	384.0	615
330805	5 G 10	19,6	480.0	771
330604	4 G 16	22,8	615.0	864
330605	5 G 16	24,9	768.0	1080

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

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

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired make-up (e.g. 1 x 610 m drum or 8 x 76 m coils)

Photographs are not to scale and do not represent detailed images of the respective products.