

Product Description

Broad application range due to multiple approvals; Cost saving, easy installation due to renouncement of closed raceways (suitable for open wiring)



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)
- Wind Turbines: USA Wind Turbine Tray Cable (WTTC)

Benefits

- Broad application range due to multiple approvals
- Cost saving, easy installation due to renouncement of closed raceways (suitable for open wiring)

Design

- Fine strands of bare copper wires
- Insulation: PVC with nylon jacket (PA skin)
- Special blended PVC outer sheath, grey (RAL 7001)

Product features

- 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



Technical Data

Core identification code

Black cores with white numbers
Alternatively available: B=blue cores, R= red cores,
Y= yellow cores with printed numbers

Approvals

UL MTW, TC-ER, WTTTC 1000V, BUS DROP c(UL)
Type TC and CIC FT4 CSA AWM I/II A/B FT4
NOM (Normas Oficiales Mexicanas)

Specific insulation resistance

> 20 GOhm x cm

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
UL/CSA: 1000 V (AWM) 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: -10°C to + 90°C (AWM +105 °C)
Fixed installation: -40°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® CONTROL M				
431803	3 G 1,0	7,6	28.8	85
431804	4 G 1,0	8,1	38.4	98
431805	5 G 1,0	8,8	48.0	115
431807	7 G 1,0	9,5	67.0	149
431812	12 G 1,0	12,1	115.0	255
431818	18 G 1,0	14,9	173.0	365
431825	25 G 1,0	16,9	240.0	479
431603	3 G 1,5	8,3	43.0	103
431604	4 G 1,5	8,9	58.0	124
431605	5 G 1,5	9,7	72.0	146
431607	7 G 1,5	10,5	101.0	189
431609	9 G 1,5	12,1	130.0	255
431612	12 G 1,5	14,3	173.0	328
431618	18 G 1,5	16,6	259.0	431
431625	25 G 1,5	18,8	360.0	592

431403	3 G 2,5	8,8	72.0	130
431404	4 G 2,5	9,6	96.0	159
431405	5 G 2,5	10,8	120.0	191
431407	7 G 2,5	11,8	168.0	252
431204	4 G 4	11,7	153.0	226
431205	5 G 4	12,8	192.0	279
431207	7 G 4	14,8	269.0	384
431004	4 G 6	15.0	231.0	394
431005	5 G 6	16,3	288.0	472
430804	4 G 10	18,4	384.0	615
430604	4 G 16	22,8	615.0	864

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 \leq 30 kg and \leq 250 m, otherwise drum

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