

Product Description

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



Application range

- Industrial machinery; plant engineering
- Machine tools compliant with UL MTW (Machine Tool Wiring)
- 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)
- Class 1, Div. 2 in accordance with NEC "National Electrical Code" Art. 336, 392, 501

Benefits

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

Design

- Fine-wire strand made of bare copper wires
- Insulation: PVC with nylon sheath (PA skin)
- Outer sheath made of special PVC compound, grey (RAL 7001)

Approvals

- Multi-standard cables have conductor strands with nominal sizes in mm² or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.



Product features

- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test
- Oil-resistant according to UL OIL RES I & II
- Water-resistant, UL Wet Approval 75 °C
- Torsion-tested for wind turbines

Technical Data

Core identification code

Black with white numbers

Approvals

UL MTW, TC-ER, WTTTC 1000 V, BUS DROP
c(UL) Type TC and CIC FT4 CSA AWM I/II A/B FT4
UL AWM Style 20886

Specific insulation resistance

> 20 GOhm x cm

Conductor stranding

Fine-wire, bare copper strand

Minimum bending radius

6 x outer diameter

Nominal 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 GN-YE protective conductor
X = without protective conductor

Temperature range

Fixed installation: -40°C to +90°C

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CONTROL TM				
281803	3 G 1,0	7,4	28.8	82
281804	4 G 1,0	8.0	38.4	95
281805	5 G 1,0	8,6	48.0	112
281807	7 G 1,0	9,3	67.0	144
281812	12 G 1,0	12.0	115.0	247
281818	18 G 1,0	14,7	173.0	365
281825	25 G 1,0	16,7	240.0	464
281602	2 X 1,5	7,3	28.8	74
281603	3 G 1,5	8,1	43.0	100

281604	4 G 1,5	8,8	58.0	119
281605	5 G 1,5	9,5	72.0	141
281607	7 G 1,5	10,3	101.0	183
281609	9 G 1,5	11,9	129.6	247
281612	12 G 1,5	14,1	173.0	328
281618	18 G 1,5	16,4	259.0	403
281625	25 G 1,5	18,6	360.0	464
281403	3 G 2,5	8,9	72.0	125
281404	4 G 2,5	9,8	96.0	155
281405	5 G 2,5	10,7	120.0	185
281407	7 G 2,5	11,6	168.0	244
281203	3 G 4	10,6	115.0	165
281204	4 G 4	11,5	154.0	220
281205	5 G 4	12,6	192.0	269
281207	7 G 4	14,6	269.0	482
281004	4 G 6	14,5	231.0	382
281005	5 G 6	15,8	288.0	457
280804	4 G 10	17,7	384.0	615
280805	5 G 10	19,4	480.0	771
280604	4 G 16	22,5	615.0	864

Footnote:

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to 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: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (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.