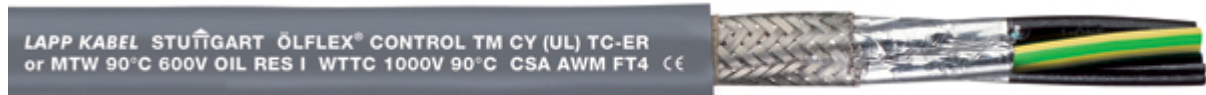


## Product Description

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
- 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 per NEC "National Electrical Code" Art. 336, 392, 501

## 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)
- Aluminum-plated foil
- tinned copper braid
- Special blended PVC outer sheath, grey (RAL 7001)

## Approvals (Norm references)

- Multi standard cables have conductor strands with nominal sizes in mm<sup>2</sup> or AWG/kcmil nominal sizes. The master size is mentioned in the table below, the equivalent size of the other system can be found in the catalogue appendix table T16. For this related secondary size the conductor cross-section mostly works out 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
- Water resistant UL Wet Approval 75 °C
- High coverage degree of the screen low transfer impedance (max. 250 Ohm/km at 30 MHz)

Technical Data

Core identification code

Black with white numbers

Approvals

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

Specific insulation resistance

> 20 GOhm x cm

Conductor stranding

Finely stranded bare copper wires

Minimum bending radius

Fixed installed: 6 x outer diameter

Rated voltage

UL/CSA: 600 V (TC, MTW, CIC), WTTC 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

Fixed installation: -40°C up to +90°C

Article List

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® CONTROL TM CY				
281803CY	3 G 1,0	8,1	49.5	119
281804CY	4 G 1,0	8,6	60.2	137
281805CY	5 G 1,0	9,3	81.4	149
281807CY	7 G 1,0	10.0	101.1	193
281812CY	12 G 1,0	12,8	161.4	330
281818CY	18 G 1,0	15,5	228.2	438
281825CY	25 G 1,0	17,5	326.4	574
281602CY	2 X 1,5	8,3	49.7	115
281603CY	3 G 1,5	8,8	65.0	144
281604CY	4 G 1,5	9,4	81.9	173



281605CY	5 G 1,5	10,2	99.1	189
281607CY	7 G 1,5	11,1	140.4	246
281612CY	12 G 1,5	15.0	225.2	426
281618CY	18 G 1,5	17,2	321.7	552
281625CY	25 G 1,5	19,4	453.6	750
281403CY	3 G 2,5	9,7	105.7	180
281404CY	4 G 2,5	10,4	135.6	223
281405CY	5 G 2,5	11,5	160.3	268
281407CY	7 G 2,5	12,4	213.0	327
281204CY	4 G 4	12,3	198.5	315
281205CY	5 G 4	14,2	242.7	388
281207CY	7 G 4	15,3	323.4	499
281004CY	4 G 6	15,3	284.6	552
281005CY	5 G 6	16,7	348.8	613
280804CY	4 G 10	18,5	458.4	857
280604CY	4 G 16	22,9	723.6	1208

**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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil  $\leq$  30 kg and  $\leq$  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.