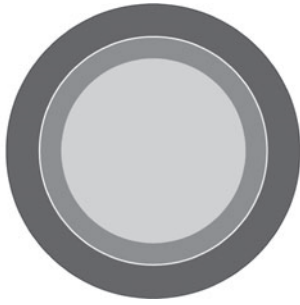


# TOPFLEX® 301 / 301-C unscreened (double insulated)/ screened high flexible PUR single core 0,6/1kV for drag chain application



## Technical data

### TOPFLEX® 301 (unscreened)

- Special PUR single-core cable acc. to UL AWM Style 10553
- **Temperature range**  
flexing -15 °C to +80 °C
- **Nominal voltage**  
acc. to VDE U<sub>0</sub>/U 600/1000 V  
acc. to UL 1000 V
- **A.C. test voltage** 3000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
approx. 7,5 cable ø

### TOPFLEX® 301C (screened)

- Tech. data as per TOPFLEX® 301
- **Coupling resistance**  
max. 250 Ωm/km

## Cable structure

### TOPFLEX® 301 (unscreened)

- Bare copper, extra fine wire conductor to DIN VDE 0295 cl. 6 and IEC 60228 cl. 6
- PVC core insulation flexible at low temperatures, grey
- PUR sheath
- Colour black or green-yellow

### TOPFLEX® 301C (screened)

- Structure as per TOPFLEX 301, but additionally
- Fleece wrapping between screen and sheath
- Tinned copper braided screening, approx. 85% coverage
- Sheath colour black

## Properties

- PUR outer sheath: low adhesion, flame retardant, extremely abrasion resistant, resistant to UV, oil, hydrolysis and microbial attack
- Optimised insulation materials ensure resistance to oils (including mineral oils), greases, coolants, hydraulic fluids as well as many alkalis and solvents
- The optimised external diameter and the reduced weight facilitate use in multi-shift operation with extreme alternating bending stress cycles
- Thanks to its excellent mechanical characteristics, the wear-resistant, notch-resistant, flame-retardant PUR sheath provides high functional reliability over long periods

## Application

### TOPFLEX® 301 (unscreened)

These cables are specially designed for use in energy supply chains, automated handling equipment, robots, machine tools, processing and manufacturing machinery.

### TOPFLEX® 301C (screened)

Applications as described above, additionally optimal compliance with electromagnetic compatibility (EMC) requirements on account of the approx. 85% coverage by the braided screening.

**EMC** = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

**CE** = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

### TOPFLEX® 301 double insulated, black unscreened

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
75375	1 x 6	7,1	58,0	85,0	10
75376	1 x 10	8,8	96,0	130,0	8
75377	1 x 16	10,5	154,0	190,0	6
75378	1 x 25	11,2	240,0	280,0	4
75379	1 x 35	13,5	336,0	400,0	2
75380	1 x 50	15,8	480,0	520,0	1
75381	1 x 70	18,0	672,0	720,0	2/0
75382	1 x 95	20,4	912,0	1050,0	3/0
75383	1 x 120	22,2	1152,0	1220,0	4/0
75384	1 x 150	25,0	1440,0	1500,0	300 kcmil
75385	1 x 185	28,0	1776,0	1940,0	350 kcmil
75386	1 x 240	32,5	2304,0	2645,0	500 kcmil

### TOPFLEX® 301C black screened EMC

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
75399	1 x 6	7,8	95,0	144,0	10
75400	1 x 10	9,5	124,0	170,0	8
75401	1 x 16	10,8	186,0	220,0	6
75402	1 x 25	12,2	278,0	340,0	4
75403	1 x 35	13,7	384,0	460,0	2
75404	1 x 50	15,4	530,0	580,0	1
75405	1 x 70	17,6	753,0	820,0	2/0
75406	1 x 95	21,7	1006,0	1200,0	3/0
75407	1 x 120	22,4	1257,0	1350,0	4/0
75408	1 x 150	24,3	1562,0	1680,0	300 kcmil
75409	1 x 185	26,5	1895,0	2100,0	350 kcmil
75410	1 x 240	30,3	2704,0	3100,0	500 kcmil

### TOPFLEX® 301 double insulated, green-yellow unscreened

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
75387	1 G 6	7,1	58,0	85,0	10
75388	1 G 10	8,8	96,0	130,0	8
75389	1 G 16	10,5	154,0	190,0	6
75390	1 G 25	11,2	240,0	280,0	4
75391	1 G 35	13,5	336,0	400,0	2
75392	1 G 50	15,8	480,0	520,0	1
75393	1 G 70	18,0	672,0	720,0	2/0
75394	1 G 95	20,4	912,0	1050,0	3/0
75395	1 G 120	22,2	1152,0	1220,0	4/0
75396	1 G 150	25,0	1440,0	1500,0	300 kcmil
75397	1 G 185	28,0	1776,0	1940,0	350 kcmil
75398	1 G 240	32,5	2304,0	2645,0	500 kcmil

Dimensions and specifications may be changed without prior notice.