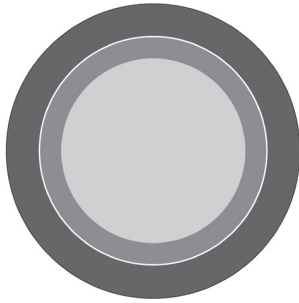


TOPFLEX® 301 / 301-C unscreened (double insulated)/ screened

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 U₀/U 600/1000 V
acc. to UL 1000 V
- **A.C. test voltage** 3000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
7,5 cable Ø

TOPFLEX® 301-C (screened)

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

Cable structure

TOPFLEX® 301 (unscreened)

- Bare copper, extra fine wire conductor to DIN VDE 0295 cl.6 and IEC 60228 cl.6
- Cold resistant PVC core insulation, grey
- PUR outer sheath
- Sheath colour black or green yellow

TOPFLEX® 301-C (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® 301-C (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 optimize 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/EC.

TOPFLEX® 301 double insulated, black unscreened

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

TOPFLEX® 301-C black screened EMC

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

TOPFLEX® 301 double insulated, green-yellow unscreened

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

Dimensions and specifications may be changed without prior notice.