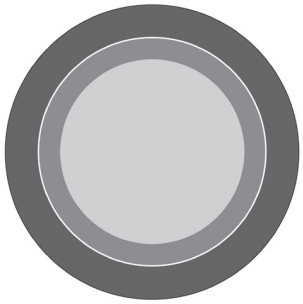
TOPFLEX® 301 / 301-C unscreened (double insulated)/ screened

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_0/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 compatibillity (EMC) requirements on account of the approx. 85% coverage by the braided screening.

EMC = Electromagnetic compatibillity

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. mm²	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 double insulated, green-yellow unscreened

Part no.	No.cores x cross-sec. mm²	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

TOPFLEX® 301-C black screened EMC

Part no.	No.cores x cross-sec. mm²	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

Dimensions and specifications may be changed without prior notice.