TOPFLEX® 611-C-PUR

EMC-preferred type, with inner sheath

TECHNICAL DATA

PUR motor supply cable in alignment with DIN VDE 0285-525-1 / DIN EN 50525-1

Temperature range	flexible -30°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_0/U 600/1000 V
Test voltage core/core	4000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: PP
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- G = with protective conductor GN-YE
- Cores stranded with optimally matched lay lengths
- Fleece wrapping
- Inner sheath: TPE
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: Special grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- suitable for use in drag chains
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals:
  EAC

APPLICATION

Used as an optimal supply cable for motor supply especially for DNC and servo motors. The cables are specially designed for use in energy supply chains, automatic handling machines, robots, machine tools and processing machines. Optimal materials for insulation ensure resistance to oils (including mineral oils), greases, coolants, hydraulic fluids and numerous alkalis and solvents. Favourable outer diameters, reduced weights and improved torsional behaviour ensure use in multi-shift operations with extremely high alternating bending stress. Suitable for outdoor installation. EMC = Electromagnetic compatibility; in order to optimise the EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
  1) the assembly instructions must be observed
  2) for further application parameters, please refer to the selection tables
  3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
22970	4 G 1.5	16	10.7	99.0	220.0
22971	4 G 2.5	14	13.2	169.0	340.0
22972	4 G 4	12	15.1	234.0	490.0
22973	4 G 6	10	18.3	316.0	680.0
22974	4 G 10	8	22.4	549.0	1035.0
22975	4 G 16	6	27.0	807.0	1460.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
22976	4 G 25	4	31.0	1169.0	1990.0
22977	4 G 35	2	37.7	1680.0	2535.0
22982	4 G 50	1	43.2	2370.0	3360.0
22983	4 G 70	2/0	47.9	3257.0	4650.0
22984	4 G 95	3/0	53.0	4060.0	6090.0
22985	4 G 120	4/0	58.4	5231.0	7380.0