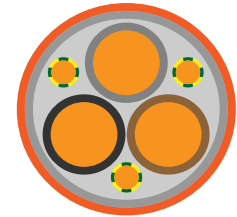


Treoflex EMC-UV
 UV stabilised VSD Cable 0.6/1kV

Technical Data

- Flexible cable with multi-stranded conductors, with a cross-linked XLPE polyethylene insulation, double stranding element screen, with UV resistant outer sheath made of a special type of PVC.
- Symmetric conductor construction (3+3PE, conductors arranged symmetrically every 120°)

Operating temperature:

- -40°C to 90°C

Operating voltage:

- U/U = 0.6/1 kV

Test voltage:

- 2500V

Insulation resistance:

- > 200 MOhm x km

Capacitance:

- conductor/conductor = 70 to 250 nF/km
- conductor/screen = 110 to 410 nF/km

Max. operating conductor temp:

- 90°C

Min. bending radius:

- $\varnothing < 12$ mm - 5 x \varnothing
- $\varnothing = 12+20$ mm - 7,5 x \varnothing
- $\varnothing > 20$ mm - 10 x \varnothing

Cable Structure
Conductors:

- flexible copper wire, class 5 as per PN-EN 60228 or PN-HD 383 S2

Conductor insulation:

- XLPE cross-linked polyethylene

Conductor marking:

- black, brown, grey, yellow-green (3 + 3PE). Cores twisted together without fillers

Screens:

- an electrostatic screen in the form of polyester tape covered with a layer of aluminium, and a second screen in the form of a tinned copper wire braid

Sheath:

- special PVC, self-extinguishing and flame retardant (as per PN-N60332-1), UV resistant

Sheath colour:

- transparent/orange

Properties

- Low capacitance
- Self-extinguishing sheath
- UV resistant
- Fulfilment of electromagnetic compatibility (EMC) requirements* *Note: in order to ensure optimal screen earthing and the fulfilment of electromagnetic compatibility (EMC) requirements by the connection.

Application

Cables with a special construction, used to supply power to motors from frequency converters while maintaining full electromagnetic compatibility (EMC). The cross-linked XLPE polyethylene insulation improves current-carrying capacity, while at the same time maintaining low cable capacitance in comparison with cables with a PVC insulation. The cables are suitable for both fixed installation and movable connections in industrial equipment, process lines, and machines operating in dry and damp rooms. The symmetric construction of the cable (3+3PE) ensures the symmetry of supply voltages on the motor terminals.

| Part Number | No of cores x cross section mm ² | Outer Ø c.a mm | Current capacity amps un-enclosed touching | Cop weight kg/km | Weight ca. Kg | Gland part no. |
|----------------|---|----------------|--|------------------|---------------|----------------|
| TA6.0015.04 | 4G1.5 | 10.6 | 19 | 86 | 140 | 53112635 |
| TA6.0025.04 | 4G2.5 | 12.3 | 26 | 143 | 219 | 53112635 |
| TA6.0040.04 | 4G4 | 14.6 | 34 | 224 | 323 | 53112645 |
| TA6.0060.03.3E | 3x6 + 3G1 | 16.1 | 43 | 298 | 429 | 53112645 |
| TA6.0100.03.3E | 3x10 + 3G1.5 | 18.8 | 61 | 491 | 615 | 53112655 |
| TA6.0160.03.3E | 3x16 + 3G 2.5 | 20.5 | 81 | 723 | 819 | 53112655 |
| TA6.0250.03.3E | 3x25 + 3G4 | 24.8 | 108 | 1137 | 1324 | 53112665 |
| TA6.0350.03.3E | 3x35 + 3G6 | 27.3 | 135 | 1535 | 1718 | 53112665 |
| TA6.0500.03.3E | 3x50 + 3G10 | 31.3 | 170 | 2207 | 2398 | 53112675 |
| TA6.0700.03.3E | 3x70 + 3G10 | 36.0 | 214 | 2871 | 3055 | 53112680 |
| TA6.0950.03.3E | 3x95 + 3G16 | 40.2 | 256 | 3953 | 4161 | 53112680 |
| TA6.1200.03.3E | 3x120 + 3G16 | 43.3 | 303 | 4836 | 5073 | 53112680 |
| TA6.1500.03.3E | 3x150 + 3G25 | 49.8 | 348 | 5411 | 6127 | 53112681 |
| TA6.1850.03.3E | 3x185 + 3G35 | 55.0 | 396 | 6968 | 7189 | 53112501 |
| TA6.2400.03.3E | 3x240 + 3G50 | 61.0 | 472 | 8540 | 9540.0 | 53112501 |
| TA6.3000.03.3E | 3x300 + 3G50 | 67.8 | 621 | 10380 | 11550 | 53112500 |

Treotham Automation has a full range of EMC Cable Glands please see page 396-397

