VFD Cables

DATA SHEET

+44 20 8895 6455
info@webbinfra.com
www.webbinfra.com

3C 600/1000V VFD cable 8AWG TC XLPE , 8AWG PVC Ground, Overall foil+ Braid

Webb's Variable Frequency Drive (VFD) cable features a three 8AWG conductor made of tinned copper with XLPE insulation, specifically designed for VFD applications. It includes an 8AWG PVC-insulated tinned copper ground wire and four 14AWG uninsulated tinned copper ground wires, which combine to an equivalent of 8 AWG in a segmented ground wire configuration. Rated for 1000V TC-ER, it operates within a temperature range of 90°C for both dry and wet conditions and can handle up to 1000V. The cable incorporates comprehensive shielding with overall aluminum foil and a tinned copper braid to protect against electromagnetic and radio-frequency interference. Its outer sheath ensures durability, safeguarding the cable from physical damage, chemicals, and moisture. Webb's VFD cable is ideal for environments requiring high performance, reliable operation, and protection from electrical interference, such as in industrial automation, motor control systems, and other demanding electrical applications.

Specifications

- Conductor:
  - No. of conductors: 3
  - Material: Stranded tinned copper
  - Conductor structure: 8AWG (7x19 strands x 29AWG)
  - Insulation: XLPE - Cross-linked polyethylene, Thickness: 1.6mm
  - Insulation diameter: 7.06mm
  - Insulation color: Black
- Insulated ground wire:
  - Material: Stranded tinned copper
  - Structure: 8AWG (7x19 strands x 29AWG)
  - Insulation: PVC - Polyvinyl Chloride, Thickness: 1.6mm
  - Insulation diameter: 7.06mm
  - Insulation color: Green with yellow strip
- Non-insulated ground wire:
  - No. of non-insulated ground wire:4
  - Material: Stranded tinned copper
  - Structure: 14AWG (41 strands x 30AWG)
- Shielding: Overall aluminum foil + 85% Tinned copper braid
- Outer sheath: Available in PVC or LSOH, thickness-2.4mm- Black
- Ripcord: Yes
- Bending radius: 274mm
- Operating temperature: -40°C to +90°C
- UL Temperature: 90°C Dry, 90°C Wet
- Max. pull tension: 450kg
- Cable weight: 860 kg/km ±3%
- Outer diameter: 22.9 mm

**Specifications are subject to change without notice based on technical recommendations and related product enhancements*

+44 20 8895 6455
info@webbinfra.com
www.webbinfra.com

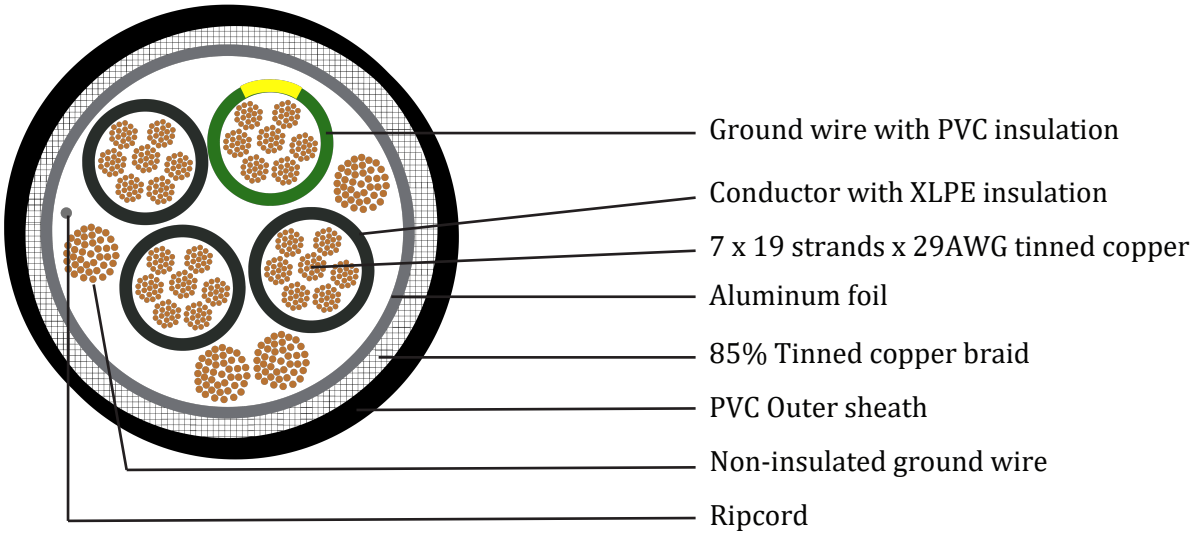
Electrical characteristics

- 600/1000V TC-ER WTTC UL Flexible motor supply cable for industrial, exposed, and wet locations
- Rated for a maximum of 1000 V and adheres to AWM I/II A/B standards
- Conductor direct current resistance (DCR): 1.97Ω/km
- Capacitance from conductor to conductor: 85 pF/m(PVC), 150 pF/m(LSOH)
- Capacitance from conductor to other (ground wire/shield): 150 pF/m(PVC), 270 pF/m(LSOH)
- Characteristic impedance: 71Ω(PVC), 37Ω(LSOH)
- Velocity of propagation: 55%

Standards and compliance

- Flame retardant: IEC/EN 60332-1-2
- Flame propagation: IEC 60332-3-24 VDE 0482-332-3-24 EN 60332-3-24
- Smoke density: IEC 61034-2 VDE 0482-1034-2 EN 61034-2
- Corrosive gases: IEC 60754-2 VDE 0482-267-2-3 EN 60754-2
- Halogen free: IEC 60754-1 VDE 0482-267-2-1 EN 60754-1
- Voltage rating: AWM I/II A/B
- UV Resistance: UL 1581 Section 1200

Inner Structure



**Specifications are subject to change without notice based on technical recommendations and related product enhancements*

+44 20 8895 6455
info@webbinfra.com
www.webbinfra.com

Ordering information

Part number	Description
T.04.VFD.61.T-3XE08.P08+4xU14.FB.P.B.5	3C 600/1000V VFD cable 8AWG TC XLPE Ins, 8AWG TC PVC Ins ground, 4x14AWG TC Non Ins ground, Overall Aluminum foil+ TC Braid, PVC 500m, Black
T.04.VFD.61.T-3XE08.P08+4xU14.FB.L.B.5	3C 600/1000V VFD cable 8AWG TC XLPE Ins, 8AWG TC PVC Ins ground, 4x14AWG TC Non Ins ground, Overall Aluminum foil+ TC Braid, LSOH 500m, Black

**Specifications are subject to change without notice based on technical recommendations and related product enhancements*

+44 20 8895 6455
info@webbinfra.com
www.webbinfra.com