

VFD Cables

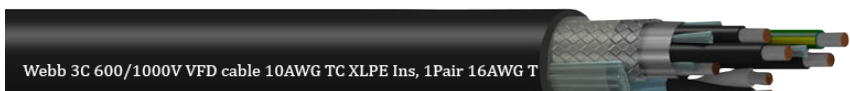
Webb 3C 600/1000V VFD cable 16AWG TC XLPE Ins, 16AWG TC PVC Ins ground, 16AW

A black VFD cable with a braided shield and a ground wire, showing the internal conductors.

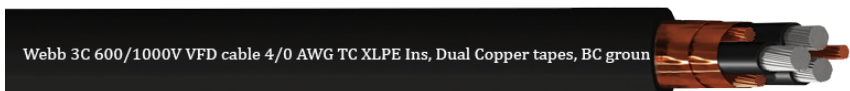
Webb 3C 2000V VFD cable 14AWG TC XLPE Ins, 14AWG TC XLPE Inc ground

A black VFD cable with a braided shield and a ground wire, showing the internal conductors.

Webb 3C 600/1000V VFD cable 10AWG TC XLPE Ins, 1Pair 16AWG T

A black VFD cable with a braided shield and a ground wire, showing the internal conductors.

Webb 3C 600/1000V VFD cable 4/0 AWG TC XLPE Ins, Dual Copper tapes, BC groun

A black VFD cable with a braided shield and a ground wire, showing the internal conductors.



3C 600/1000V VFD cable 4AWG TC XLPE , 4AWG PVC Ground, Overall foil+ Braid

Webb's Variable Frequency Drive (VFD) cable features three 4AWG conductor made of tinned copper with XLPE insulation, specifically designed for VFD applications. It includes an 4AWG PVC-insulated tinned copper ground wire and four 10AWG uninsulated tinned copper ground wires, which combine to an equivalent of 4AWG 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: 4AWG (7x19 strands x 25AWG)
 - Insulation: XLPE - Cross-linked polyethylene, Thickness: 1.6mm
 - Insulation diameter: 9.32mm
 - Insulation color: Black
- Insulated ground wire:
 - Material: Stranded tinned copper
 - Structure: 4AWG (7x19 strands x 25AWG)
 - Insulation: PVC - Polyvinyl Chloride, Thickness: 1.6mm
 - Insulation diameter: 9.32mm
 - Insulation color: Green with yellow strip
- Non-insulated ground wire:
 - No. of non-insulated ground wire: 4
 - Material: Stranded tinned copper
 - Structure: 10AWG (105 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: 340mm
- Operating temperature: -40°C to +90°C
- UL Temperature: 90°C Dry, 90°C Wet
- Max. pull tension: 708.5kg ±3%
- Cable weight: 1600kg/km ±3%
- Outer diameter: 29mm

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

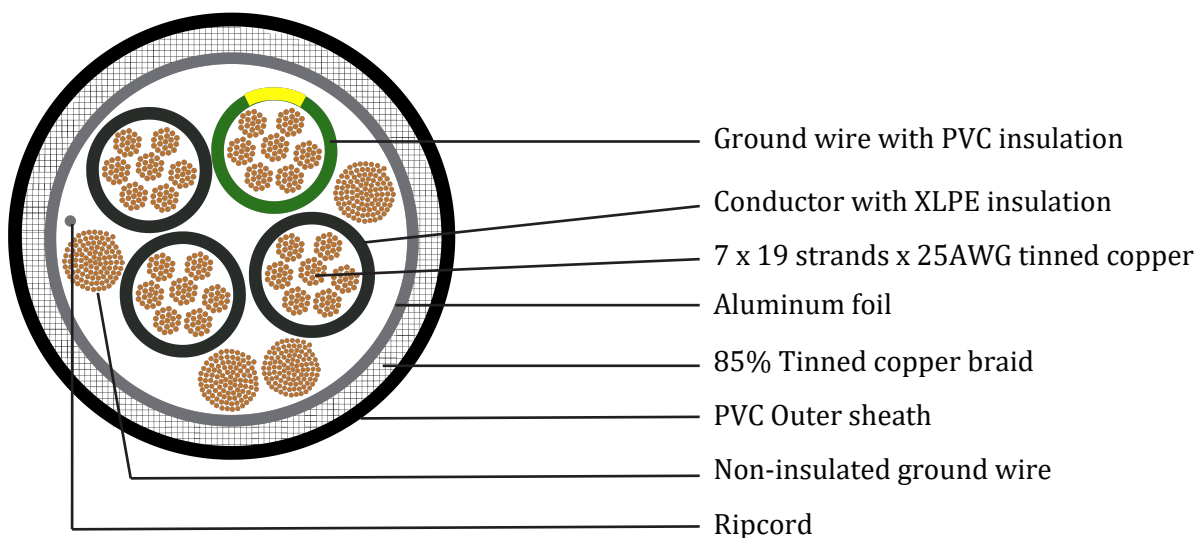
Electrical characteristics

- 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): 0.784Ω/km
- Capacitance from conductor to conductor: 100 pF/m(PVC), 130 pF/m(LSOH)
- Capacitance from conductor to other (ground wire/shield): 60pF/m(PVC), 240 pF/m(LSOH)
- Characteristic impedance: 37Ω(PVC), 46Ω(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



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Ordering information

Part number	Description
T.04.VFD.61.T-3XE04.P04+4xU10.FB.P.B.5	3C 600/1000V VFD cable 4AWG TC XLPE Ins, 4AWG TC PVC Ins ground, 4x10AWG TC Non Ins ground, Overall Aluminum foil+ TC Braid, PVC 500m, Black
T.04.VFD.61.T-3XE04.P04+4xU10.FB.L.B.5	3C 600/1000V VFD cable 4AWG TC XLPE Ins, 4AWG TC PVC Ins ground, 4x10AWG TC Non Ins ground, Overall Aluminum foil+ TC Braid, LSOH 500m, Black

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