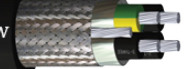


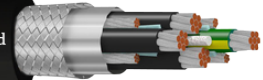


VFD Cables

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



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



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



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



DATA SHEET

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3C 600/1000V VFD cable 12AWG TC XLPE, 12AWG PVC Gnd, Foil+ Braid, 1-Pair Conductor

Webb's Variable Frequency Drive (VFD) Cable features three 12 AWG conductors made of tinned copper with XLPE insulation, specifically designed for VFD applications. It includes a 12 AWG PVC-insulated tinned copper ground wire, along with uninsulated ground wires. The power conductors and ground wires are shielded with aluminum foil and a tinned copper braid, protecting against electromagnetic and radio-frequency interference. Additionally, a 1-pair of 16 AWG tinned copper conductors with XLPE insulation is included, featuring a separate aluminum foil shield for control or brake applications, with the 18 AWG ground wire positioned inside the aluminum foil shield for this pair. Rated for 600V TC-ER, it operates at temperatures up to 90°C in both dry and wet conditions and can handle up to 1000V. The durable outer sheath protects the cable from physical damage, chemicals, and moisture, making Webb's VFD cable ideal for high-performance environments like industrial automation and motor control systems.

Specifications

- Conductor:
 - No. of conductors: 3
 - Material: Stranded tinned copper
 - Conductor structure: 12AWG (65 strands x 30AWG)
 - Insulation: XLPE - Cross-linked polyethylene
 - Insulation diameter: 4.75mm
 - Insulation color: Black
- Insulated ground wire:
 - Material: Stranded tinned copper
 - Structure: 12AWG (65 strands x 30AWG)
 - Insulation: PVC - Polyvinyl Chloride
 - Insulation diameter: 4.75mm
 - Insulation color: Green with yellow strip
- The outer shield contains a non-insulated TC ground wire of 12 AWG alongside the power conductors
- 1 Pair control conductor
 - Designed for control or brake applications
 - Material: Stranded tinned copper
 - Structure: 16AWG (26 strands x 30AWG)
 - Insulation: XLPE - Cross-linked polyethylene
 - Insulation diameter: 3.12mm
 - Insulation color: Black, White
 - The inner shield of the one pair of control conductor includes an 18 AWG (19x30) non-insulated ground wire
 - Shielding: Overall aluminum foil for 1 Pair control conductor and non-insulated ground wire

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



- Shielding: Overall aluminum foil + 85% Tinned copper braid for the power conductors and ground wires
- Outer sheath: PVC, thickness-1.9mm- Black
- Ripcord: Yes
- Bending radius: 272mm
- Operating temperature: -40°C to +90°C
- UL Temperature: 90°C Dry, 90°C Wet
- Max. pull tension: 271 kg
- Cable weight: 555kg/km
- Outer diameter: 22.7 mm

Electrical characteristics

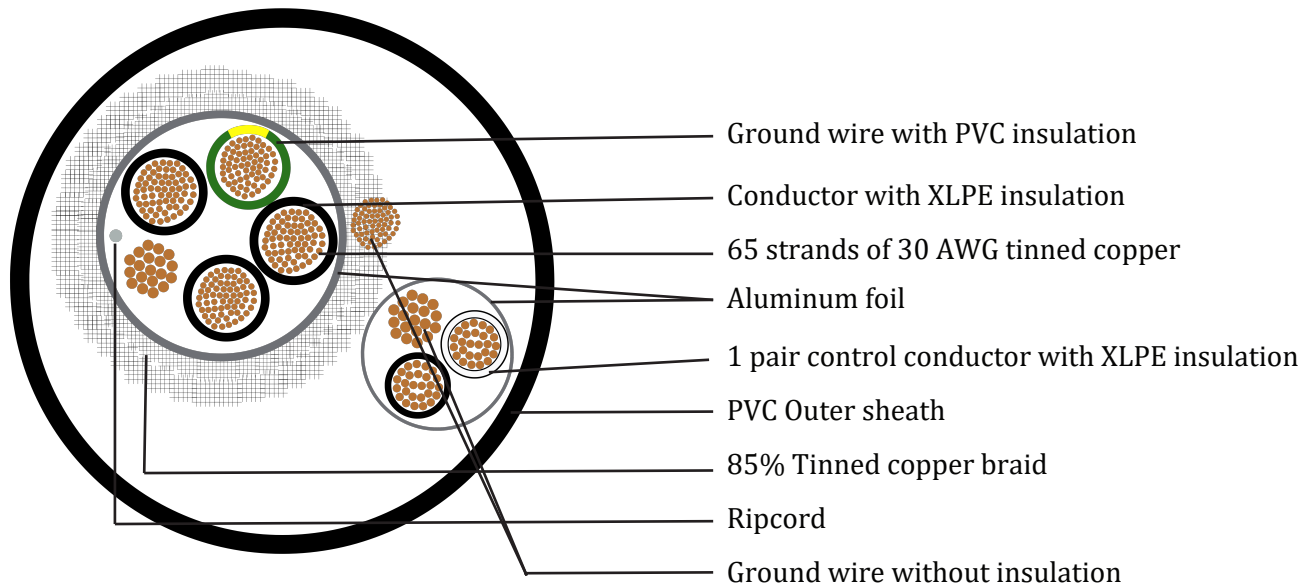
- 600V TC-ER WTTC UL Flexible motor supply cable for industrial, exposed, and wet locations
- Rated for a maximum of 1000 V and adheres to AWM I/II A/B standards
- Conductor direct current resistance (DCR): 5.15 Ω /km
- Capacitance from conductor to conductor: 150 pF/m(Conductor), 110 pF/m(Pairs)
- Capacitance from conductor to other (ground wire/shield): 270 pF/m
- Characteristic impedance: 37 Ω
- 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
- Voltage rating: AWM I/II A/B
- UV Resistance: UL 1581 Section 1200

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

Inner Structure



Ordering information

Part number	Description
T.04.VFD.61.T-3XE12.P12+1P-16FXE.FB.P.B.5	3C 600/1000V VFD cable 12AWG TC XLPE Ins, 12AWG TC PVC Ins ground, Aluminum foil+ TC Braid, 1P 16AWG TC XLPE Ins with foil shield, PVC 500m, Black

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