

VFD Cable

For variable-frequency drive systems in demanding industrial environments

WIPE hotwire VFD Cables are engineered to support variable-frequency AC motor drives with stable, high-performance power transmission. Built with stranded ATC conductors and XLPE insulation, combined with robust Aluminum foil and ATC braid shielding, they withstand high voltage spikes, electrical noise, and harsh operating conditions to ensure reliable motor performance and long-term system reliability.

VFD cables carry the high-frequency switching signals that power and control variable-frequency drive systems. From drives to motors, they suppress electrical noise, manage ground fault currents, and protect connected equipment, forming the critical link in every energy-efficient motor control environment.



Key Features

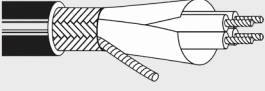
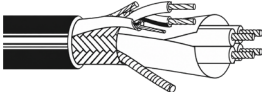
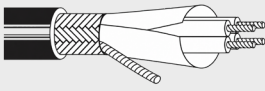
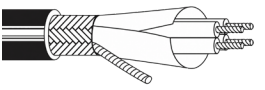
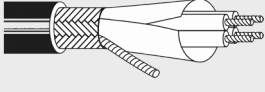
-  600/1000V and 2000V voltage grade options
-  Conductor sizes ranging from 2 AWG to 16 AWG
-  4-core and 4-core + 1 signal pair configurations
-  Overall Aluminum foil combined with 85% ATC braid shielding
-  Duofoil shielding option for enhanced EMI/RFI suppression
-  XLPE insulation with PVC insulation for ground conductors
-  Low Smoke Zero Halogen (LSZH) jacket variants available
-  Thermoset LSZH jacket option for enhanced fire safety performance
-  ATC drain wire sized to match phase conductors

Applications

-  Variable-frequency drive (VFD) and inverter-fed motor systems
-  Industrial motor control and automation
-  Pump, fan, and compressor drive installations
-  Manufacturing and processing plant machinery
-  Energy management and efficiency systems
-  Environments requiring reduced smoke and halogen-free cabling

Construction

- Stranded ATC circuit conductors with BC or ATC ground conductors
- XLPE insulation; PVC insulation on ground conductors
- Overall Aluminum foil with 85% ATC braid shielding (Duofoil on selected variants)
- ATC drain wire sized same as phase conductors
- Black PVC outer jacket standard; black halogen-free jacket on LSZH variants
- Thermoset halogen-free-2 jacket available for fire-critical installations

Part Number	Cable Type	Drawing	Voltage Grade (V)	No. of Core/ Pair	Cable Size	Construction
WCE04CFT01Y1	Aluminum Foil/Braid Design		600/1000	4 Core	16, 14, 12, 10, 8, 6, 4 & 2 AWG	Stranded ATC Conductors • XLPE Insulation (PVC for Ground) • Overall Aluminum Foil + 85% ATC Braid Shielding • Black PVC Jacket • ATC Drain Wire (Sized Same as Conductors)
WCE04CIT01Y1	"Aluminum Foil/Braid Design • Signal Pair"		600/1000	4 Core +1 Pair	16, 14, 12 & 10 AWG	Stranded ATC Conductors • XLPE Insulation (PVC for Ground) • Overall Duofoil + 85% ATC Braid Shielding • Black PVC Jacket • ATC Drain Wire (Sized Same as Conductors)
WCF04CFT01Y1	Aluminum Foil/Braid Design		2000	4 Core	14, 12, 10, 8, 6, 4 & 2 AWG	Stranded ATC Circuit Conductors • XLPE Insulation (PVC for Ground) • Overall Duofoil + 85% ATC Braid Shielding • Black PVC Jacket • ATC Drain Wire (Sized Same as Conductors)
WCE04CFT01YL	"Aluminum Foil/Braid Design • Low Smoke Zero Halogen"		600/1000	4 Core	16, 14, 12, 10, 8, 6, 4 & 2 AWG	Stranded ATC (Circuit), BC (Ground) Conductors • XLPE Insulation • Overall Aluminum Foil + 85% ATC Braid Shielding • Black Halogen free Jacket
WCE04CFT01YL	"Aluminum Foil/Braid Design • Thermoset Low Smoke Zero Halogen"		600/1000	4 Core	16, 14, 12, 10, 8, 6, 4 & 2 AWG	Stranded ATC Conductors • XLPE Insulation • Overall Aluminum Foil + 85% ATC Braid Shielding • Black Halogen free-2 Jacket

Note : Part codes listed in this table apply only to the standard cable constructions. Customized or non-standard cable constructions shall be assigned part codes as per the nomenclature defined in this catalogue