



2012 CORPORATE LANE, SUITE 116 NAPERVILLE, IL 60563  
TOLL FREE: 888-888-8045

**Part #: CPI-VFDX123**

## Variable Frequency Drive Cable Specification

Description:	12 AWG 3 conductor 65 strand tinned copper with XLPE insulation, (3) uninsulated tinned copper grounds, an aluminum/mylar shield, a tinned copper braid shield and an overall PVC jacket 1KV VFD cable, approved for use in SUN RES 90°C applications. Also approved for TC-ER 600V DIR BUR applications.	
Conductor:	AWG Size & Stranding:	12 AWG 65 Strands Class K
	Material:	Annealed Tinned Copper
	Conductor Count:	3 Conductors
Insulation:	Material:	Cross-linked Polyethylene
	Wall Thickness:	0.030"
	Color Code:	Red, White, Black
Assembly:	Lay Length:	5.00" LHL
	Ground:	(3) Uninsulated – 16 AWG 26 Strand Tinned Copper (In contact with the shield)
	Fillers:	N/A
	Binder:	N/A
	Shield:	Aluminum/Mylar Tape - 100% coverage (Foil in)
	2nd Shield:	36 AWG Tinned Copper Braid – 85% minimum coverage
	Jacket:	Material:
	Wall Thickness:	0.045"
	Diameter:	0.444"
	Color:	Black
	Ripcord:	Yes
	Cold Bend Rating:	-40°C
	Weight:	170 lbs./Mft.
Markings:	Type:	Cable shall be permanently identified via surface inkjet print
	Legend:	LAKE CABLE E348306 12AWG 3C SHIELDED (UL) FLEXIBLE VFD SERVO MOTOR CABLE 1KV XLPE 90°C DRY/WET UNINSULATED GROUNDS PVC JACKET SUN RES OR (UL) TC-ER XHHW-2/VW-1 600V 90°C DRY/WET PVC JACK ET SUN RES DIR BUR FT4 "ROHS II" MADE IN USA
	Footage Markers:	Yes

### Standards

- Refer to NEC (NFPA 70) article 336 for installation guidelines
- Cable is suitable for use in Class I Division 2 hazardous locations
- UL listed as Type VFD per UL Standard 2277 for Flexible VFD Servo Motor Cables
- UL listed as Type TC-ER per UL Standard 1277 for tray cables
- UL approved for Sunlight and Direct Burial Resistant applications
- Individual conductors pass UL VW-1 flame test, rated XHHW-2/VW-1
- Cable meets UL 1581 & IEEE 1202 (FT-4) 70,000 BTU/HR requirements
- All materials used in the manufacture of this cable are RoHS II & REACH compliant
- Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION