

# Three Conductor Variable Frequency Drive Cable

## 600V UL Type TC-ER / 1000V UL Type Motor Supply



### APPLICATION:

Three Conductor Variable Frequency Drive Cables are primarily used with VFD's. The three conductor construction is suitable for applications that are generally dry with one-phase fault conditions, where an insulated ground is not required.

Three Conductor Variable Frequency Drive Cables DO NOT require Termination Kits.

### CONDUCTORS:

- 16AWG-4AWG: Stranded soft drawn tinned copper
- 2AWG and larger: Stranded soft drawn bare copper

### GROUND(S):

- 16AWG-4AWG: Stranded soft drawn tinned copper
- 2AWG and larger: Stranded soft drawn bare copper

### INSULATION:

- Cross-linked polyethylene (XLP) insulation

### SHIELDING:

- 16AWG-4AWG: Aluminum/Mylar/Aluminum tape 100% coverage & tinned copper braid
- 2AWG and larger: 0.005" helical bare copper tape shield with a 50% overlap

### COLOR CODE:

- Black insulation with ICEA Method 4 printed numbers

#### ICEA Method 4 - All Black Conductors

Cond #	Cond Printing
1	"1-One"
2	"2-Two"
3	"3-Three"

### JACKET:

- Black polyvinyl chloride (PVC) jacket that is sunlight, moisture, oil and abrasion resistant, and direct burial rated.
- Rated for use from -40°C to 90°C

### STANDARDS:

- UL 1277, Type TC-ER, Type XHHW-2
- UL listed as VFD or WTTC per UL 2277 for Flexible Motor Supply and Wind Turbine Tray Cables
- CSA FT-4 Vertical tray flame test
- CSA AWM I/II A/B singles
- CSA Type AWM per CSA standard C22.2 No. 210-11
- c(UL) CIC-TC per CSA standard C22.2 No. 239-09 & 230-09
- Meets UL 1202/1583 70,000 BTU flame test
- Meets ICEA T-29-520 210,000 BTU flame test
- Suitable for use in Class I Division II hazardous locations
- 90°C DRY/WET
- RoHS II & REACH compliant



1-800-945-5542  
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Part Number	Conductor Size	Conductor Stranding	Ground Wire Size	Insulation Thickness		Jacket Thickness		Overall Diameter	
	AWG/kcmil		AWG	inches	mm	inches	mm	inches	mm
16-03VFD-3G	16	26	3#20	0.046	1.17	0.050	1.27	0.442	11.23
14-03VFD-3G	14	41	3#18	0.030	0.76	0.045	1.14	0.413	10.49
12-03VFD-3G	12	65	3#16	0.030	0.76	0.045	1.14	0.464	11.79
10-03VFD-3G	10	105	3#14	0.030	0.76	0.060	1.52	0.553	14.05
8-03VFD-3G	8	133	3#14	0.045	1.14	0.060	1.52	0.719	18.26
6-03VFD-3G	6	133	3#12	0.045	1.14	0.080	2.03	0.854	21.69
4-03VFD-3G	4	133	3#12	0.045	1.14	0.080	2.03	0.945	24.00
2-03VFD-3G	2	133	3#6	0.045	1.14	0.080	2.03	1.112	28.24
1-03VFD-3G	1	133	3#6	0.055	1.40	0.080	2.03	1.176	29.87
1/0-03VFD-3G	1/0	133	3#4	0.055	1.40	0.080	2.03	1.334	33.88
2/0-03VFD-3G	2/0	133	3#4	0.055	1.40	0.080	2.03	1.444	36.68
3/0-03VFD-3G	3/0	133	3#4	0.055	1.40	0.080	2.03	1.467	37.26
4/0-03VFD-3G	4/0	133	3#2	0.055	1.40	0.110	2.79	1.732	43.99
250-03VFD-3G	250	259	3#8	0.065	1.65	0.110	2.79	1.931	49.05
350-03VFD-3G	350	259	3#7	0.065	1.65	0.110	2.79	2.153	54.69
500-03VFD-3G	500	259	3#6	0.065	1.65	0.110	2.79	2.409	61.19

All values are nominal and subject to correction



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