

VFD CABLE

the missing link

NFPA 79
Compliant



Available at Werner Electric Supply!

Industrial Variable Frequency Drive (VFD) Cables

- Will not degrade under severe electrical load allowing longer cable runs.
- Performs under voltage irregularities—harmonics, corona discharges, and power distortions.
- Virtually eliminates premature cable failure and machine down time.
- Full sized insulated ground.
- Full sized TC drain wire.

Product Description

- Conductor: Stranded tinned copper
- Insulation: RHH/RHW-2
- Drain Wire: Stranded tinned copper
- Shield: Foil/tinned copper braid 85%
- Jacket: Black PVC, sunlight- and oil-resistant

Voltage

- 600V UL 1277 Type TC-ER
- 1000V Flexible Motor Supply Cable

Color

- Three black numbered conductors
- One green/yellow ground

Specifications

- UL 1685 Vertical Flame Test
- CSA AWM I/II A/B FT4
- Class 1 & 2 Div. 2 hazardous locations
- IEEE 1202/383 Vertical Flame Test 70K BTU
- UL Direct Burial, CE, MSHA, RoHS
- -25°C — 90°C wet/dry
- NFPA 79

Features

- XLPE Insulation
- Foil/Braid Shield
- Drain Wire

Benefits

- Low capacitance improves signal transmission
- Signal protection from radiated/conducted noise
- Ease of terminating shield

Industrial Variable Frequency Drive Cables compatible with these drive manufacturers

- | | |
|-----------------------|-----------------------|
| • A+A Electric | • Mitsubishi Electric |
| • ABB | • Motion Industries |
| • Baldor | • Robicon |
| • Eaton Cutler-Hammer | • Rockwell Automation |
| • Hitachi | • Square D |
| • Magnetek | • Toshiba |

VFD Cable Selection Guide

Motor Properties AWG Size Selection Chart

Three Phase Alternating Current Motors

Drive Voltage	Drive HP	Wire AWG	No. of Cond.	Strand	Werner Part Number	OD Inches	Stock
230V	1/4 - 3	16	4	26/30	.4204976	0.53	Werner
230V	5	14	4	41/30	.4204977	0.60	Werner
230V	7 1/2	12	4	65/30	.4204979	0.65	Werner
230V	10	10	4	105/30	.4206108	0.69	Werner
230V	15	8	4	133/29	.4216915	0.93	Werner
230V	20	6	4	133/27	.4206109	1.02	Werner
230V	25	4	4	133/25	.4213157	1.16	Werner
230V	30 - 40	2	4	133/23	.4259596	1.34	Werner
460V	1/4 - 10	16	4	26/30	.4204976	0.53	Werner
460V	15	12	4	65/30	.4204979	0.65	Werner
460V	20	10	4	105/30	.4206108	0.69	Werner
460V	25 - 30	8	4	133/29	.4216915	0.93	Werner
460V	40	6	4	133/27	.4206109	1.02	Werner
460V	50	4	4	133/25	.4213157	1.16	Werner
460V	60 - 75	2	4	133/23	.4259596	1.34	Werner
575V	1/4 - 10	16	4	26/30	.4204976	0.53	Werner
575V	15	14	4	41/30	.4204977	0.60	Werner
575V	20	12	4	65/30	.4204979	0.65	Werner
575V	25 - 30	10	4	105/30	.4206108	0.69	Werner
575V	40	8	4	133/29	.4216915	0.93	Werner
575V	50	6	4	133/27	.4206109	1.02	Werner
575V	60	4	4	133/25	.4213157	1.16	Werner
575V	75 -100	2	4	133/23	.4259596	1.34	Werner

Variable Frequency Drive Cable with Signal Pair

Full sized ground, full sized TC drain wire

16 AWG shielded signal pair for brake with drain wire: Black, White Signal Pair

Wire AWG	No. of Cond.	Strand	Signal Pair AWG	Strand	Werner Pat Number	OD Inches	Stock
16	4	26/30	16 AWG	26/30	.4249578	0.75	Factory
14	4	41/30	16 AWG	26/30	.4226140	0.82	Factory
12	4	65/30	16 AWG	26/30	.4258827	0.90	Factory
10	4	105/30	16 AWG	26/30	.4258828	0.99	Factory

* The table references the suggested wire size to use based on Horse Power (HP) and Full Load Current (FLC) times 125% per NEC Art. 430-22 (A). FLC per NEC Art. 430-150. AWG per NEC Art. 310-16 90c.

We have the cable for YOUR Application!
Contact your Werner Electric Supply wire & cable specialist.

