



Draka

Draka Cableteq | USA

VFD CABLES LIGHTER, MORE FLEXIBLE, IN STOCK & READY TO SHIP

TAMAQUA CABLE 3/C 14 AWG XHHW-2 TYPE TC 3/C 18 AWG GROUND VFD POWER CABLE UL 600V

VFD Cables now Lighter, Easier to Handle and Install

The Draka USA Difference

- Easier to handle and install
- Lighter and more flexible
- Less costly than other common cable options
- UL listed
- Great protection for reflected voltages, high frequency ground current and electromagnetic interference (EMI)

Draka Cableteq USA offers a lighter, easier to handle and install VFD Cable that is UL listed and less costly than other common cable options.

Installation is less labor intensive, much easier to install than type Aluminum sheath cable saving the user both time and money. And our cables have the Standard UL Type TC listing.

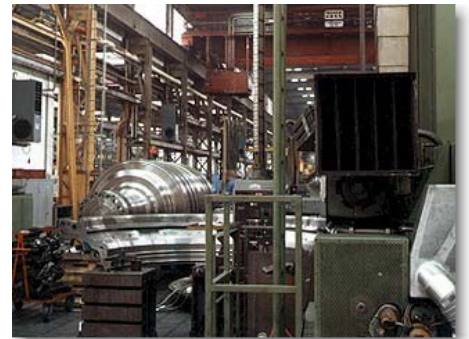
When considering which cable fits your needs best, remember that Draka Cableteq USA VFD cable allows for a quicker installation because it is lighter and more flexible allowing it to be positioned more easily into place. Traditional cables (armored cable, lead wire-in-conduit) are not only heavy, but also require a very large bend installation radius. While traditional cables do supply power, they do not address the noise and corona discharge problems.

Application

Our VFD Power Cables are designed for use with low voltage (600 volt) AC motors controlled for speed by modern PWM (pulse width modulated) inverters. These PWM inverters require properly designed power cables to prevent RF (radio frequency) electrical signals from causing stray electrical noise or malfunction of the motor.

Why You Need VFD Cables

In addition to supplying power from drive systems to motors, these cables must also be able to handle extremely high voltage which can occur when standing waves develop on the conductors. This high voltage can cause corona discharge between the conductors of conventional cables, causing damage not only to the cable itself, but also to the AC motor drive system components. When this type of failure occurs, the entire system requires maintenance repair. As a result, there are replacement part costs, labor repair costs, not to mention the downtime that is experienced in the plant. When cables fail, it costs money.



When time is money, Draka Cableteq USA VFD cables provide the answer for easy, cost effective installation, while meeting industry

Where VFD Cables Are Used

VFD systems are used in numerous industrial applications such as: processing plants, general assembly plants, automotive, food and beverage, pulp and paper plants as well as petrochemical use.

The Draka Cableteq USA Difference

Draka USA VFD cables are manufactured at our Tamaqua Cable Products plant in Pennsylvania, an ISO 9001 certified facility.

Stock is available in AWG sizes: 2, 4, 6 and 8.

These cables meet or exceed the standards set forth in

- UL Standard 44
- UL Standard 1277
- IEEE 1202 (70,000) BTU/HR) Flame Test
- ICEA T-29-520 (210,000 BTU/HR) Flame Test
- UL Open wiring rated
- MSHA approved
- Made in USA

How to find us

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VFD POWER CABLE

For low voltage variable frequency drive systems

16 AWG to 750 KCMIL / XLPE insulation PVC jacket / 600 Volt

Part Number	Number of Conductor/ Size	Number of Grounds Size	Nominal Insulation Thickness in (mm)	Diameter Over Shield In (mm)	Nominal Cable OD in (mm)	Approx Cable Weight Lbs/Mft (Kgs/Km)
382626	3 /16 AWG	3 -18 AWG	.030 (0.7)	0.32 (8.13)	0.43 (10.9)	92 (136)
382615	3 /14 AWG	3 -18 AWG	.030 (0.7)	0.35 (8.89)	0.46 (11.7)	144 (213)
382627	3 /12 AWG	3 -18 AWG	.030 (0.7)	0.0.39 (9.91)	0.51 (13.0)	176 (260)
382628	3 /10 AWG	3 -16 AWG	.030 (0.7)	0.45 (11.4)	0.59 (15.0)	254 (376)
*382616	3 /8 AWG	3 -14 AWG	.045 (1.1)	0.58 (14.7)	0.73 (18.5)	390 (577)
*382617	3 /6 AWG	3 -12 AWG	.045 (1.1)	0.66 (16.8)	0.78 (19.8)	263 (389)
*382625	3 /4 AWG	3 -10 AWG	.045 (1.1)	0.76 (19.3)	0.93 (23.6)	769 (1138)
*382618	3 /2 AWG	3 - 8 AWG	.045 (1.1)	0.89 (22.6)	1.11 (28.2)	1154 (1665)
382629	3 /1 AWG	3 - 8 AWG	.055 (1.4)	1.05 (26.7)	1.28 (32.5)	1427 (2112)
382619	3 / 1/0 AWG	3 -6 AWG	.055 (1.4)	1.15 (29.2)	1.37 (34.8)	1764 (2611)
382614	3 / 2/0 AWG	3 -6 AWG	.055 (1.4)	1.21 (30.7)	1.43 (36.3)	2077 (3074)
382630	3 / 3/0 AWG	3 - 4 AWG	.055 (1.4)	1.32 (33.5)	1.55 (39.4)	2599 (3847)
382620	3 /4/0 AWG	3 - 4 AWG	.055 (1.4)	1.43 (36.3)	1.66 (42.2)	3093 (4578)
382621	3 /250 KCMIL	3- 4 AWG	.065 (1.7)	1.57 (39.9)	1.88 (47.8)	3791 (5611)
382612	3 /350 KCMIL	3 -2 AWG	.065 (1.7)	1.81 (46.0)	2.00 (50.8)	5020 (7430)
382631	3 /500 KCMIL	3 - 1/0 AWG	.065 (1.7)	2.08 (52.8)	2.30 (58.4)	7012 (10378)
382632	3 /750 KCMIL	3 -2/0 AWG	.080 (2.03)	2.51 (63.8)	2.93 (74.4)	10214 (15198)

* IN STOCK

Insulation thicknesses shown are 600 volt. 2000 volt insulation thicknesses can also be supplied as an alternative. Optional features available are: 1) Ethylene propylene rubber (EPR) insulation, 2) CPE, LSZH or TPE jacket. Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

