WireXpress

2,000 V Armored VFD Cables

Product Description

AC Drive Cables
Impervious Continuous Corrugated Aluminum Armor
XLP Insulation

Applications

Primary power for all types of AC motor drives, especially between PWM inverters and AC motors. Cable may be used in all types of industrial and processing facilities. This cable also can be used for many other power applications in most environments.

Specifications

- CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B-3, B-8
- INSULATION: Cross-Linked Polyethylene (XLP), ICEA 2,000 V insulation levels, also meets CSA RW90 in 6 AWG and larger, conductors are identified by number coding "1", "2", and "3" on the surface insulation
- ASSEMBLY: The insulated conductors and ground wire(s) are cabled with fillers to make round
- ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569, armor is pressure-tested and meets the grounding requirements of NEC Article 250
- OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
- STANDARDS: Cables meet UL and IEEE 383 70,000 Btu Flame Tests and are marked "for CT use", individual conductors and completed cables are tested in accordance with UL requirements for Type MC-HL cables
- AMPACITY: Based on not more than three conductors in raceway or cable or earth and an ambient temperature of 30°C per NEC 310.16
- TEMPERATURE: 90°C
- VOLTAGE: 2,000 V ICEA, 600 V UL

* 14, 12 and 10 AWG have one grounding conductor to facilitate termination, three grounding conductor constructions are also stocked, use "-3G" suffix.
** 2,000 V UL for flexible AC Drive cable applications are also available on special order.
*** Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG, 30 A for 10 AWG.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Armor Thickness (in.)	Overall Jacket Thickness (in.)	Nom. Diameter over Armor (in.)	Nom. Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7V-1403	14	7	1#14*	0.045	0.027	0.050	0.68	0.79	260	25
7V-1203	12	7	1#12*	0.045	0.027	0.050	0.68	0.79	279	30
7V-1003	10	7	1#10*	0.045	0.027	0.050	0.73	0.84	371	40
7V-0803-3G	8	7	3#14	0.055	0.027	0.050	0.76	0.87	431	55

Part No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Armor Thickness (in.)	Overall Jacket Thickness (in.)	Nom. Diameter over Armor (in.)	Nom. Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7V-0603-3G	6	7	3#12	0.060	0.027	0.050	0.94	1.05	633	75
7V-0403-3G	4	7	3#12	0.060	0.027	0.050	1.07	1.18	826	95
7V-0203-3G	2	7	3#10	0.060	0.027	0.050	1.24	1.35	1,239	130
7V-1013-3G	1/0	19	3#10	0.080	0.035	0.050	1.59	1.70	1,936	170
7V-2023-3G	2/0	19	3#6	0.080	0.035	0.050	1.69	1.81	2,289	195
7V-4043-3G	4/0	19	3#4	0.080	0.039	0.060	1.94	2.08	3,379	260
7V-2503-3G	250	37	3#4	0.090	0.043	0.060	2.12	2.26	3,906	290
7V-3503-3G	350	37	3#2	0.090	0.047	0.060	2.44	2.58	5,365	350
7V-5003-3G	500	37	3#1	0.090	0.051	0.075	2.79	2.96	7,249	430