

5/8kV CCW Armored Power, 5kV-133%/8kV-100%, Shielded, 3/C VFD



Continuously Corrugated Welded Cable
CCW@ Variable Frequency Drive Cable
EPR Insulation PVC Jacket
105°C UL Type MC-HL or MV-105
5kV(133%)/8kV(100%) 3-Conductor Shielded

CONSTRUCTION	
Conductor	- Bare annealed copper per ASTM B3 - Compact stranding per ASTM B496
Extruded Strand Shield	- Extruded thermoset semi-conductor stress control layer over conductor per ICEA S-93-639 and UL 1072
Insulation	- Ethylene Propylene Rubber (EPR)
Extruded Insulation Shield	- Thermoset semi-conducting polymeric layer, free stripping from the insulation per ICEA S-93-639 and UL 1072
Grounding Conductor	- Three split Class B stranded bare annealed copper grounding conductors - Sized in accordance with UL 1072 and NEC Article 250
Shield	- 5 mil annealed bare copper tape with 25% overlap - Color coded polymeric identification tape laid under the shield: black, red, & blue
Armor	- Impervious, continuously welded and corrugated aluminum alloy sheath
Jacket	- Flame-retardant, moisture and sunlight resistant PVC, yellow - Low temperature performance meets ASTM D746 brittleness temperature at or below 40°C

Applications:

- Variable Frequency Drives: 3-conductor CCW armored cables with 3 symmetrical grounding wire are the preferred wiring method for use with AC motors controlled by pulse-width modulated inverters in VFD applications
- For use in feeders and branch circuits in industrial power distribution systems per NEC articles 328 and 330
- Approved for Classes I, II and III, Divisions 1 and 2; and Class I, Zones 1 and 2, hazardous locations covered under NEC Articles 501, 502, 503 and 505
- Installed on metal racks, troughs, in raceways, in cable trays or secured to supports spaced no more than 6 feet apart
- Installed in both exposed and concealed work, wet or dry locations, directly buried or embedded in concrete

Features:

- Cable meets cold impact at -40°C
- 105°C continuous operating temperature, wet or dry
- 140°C emergency rating
- 250°C short circuit rating

Standards:

- UL 1072
- UL 1569
- UL 2225
- UL 1309
- IEEE 1202 available upon request

Part #	AWG	Conductors	Ground AWG	Insulation Thickness	Nominal O.D. over Armor	Nom. O.D. Overall	Lbs./M'
XMVE20603	6	3	3 x 10AWG	.115	1.37	1.48	1121
XMVE20403	4	3	3 x 10AWG	.115	1.51	1.65	1418
XMVE20203	2	3	3 x 10AWG	.115	1.64	1.78	1764
XMVE21/003	1/0	3	3 x 8AWG	.115	1.78	1.91	2314

Part #	AWG	Conductors	Ground	Insulation	Nominal	Nom.	Lbs./M'	
			AWG	THICKNESS	O.D.	O.D.		
					over	Overall		
					Armor			
XMVE22/003	2/0	3	3 x 8AWG	.115	1.92	2.05	2671	
XMVE24/003	4/0	3	3 x 7AWG	.115	2.15	2.28	3727	
XMVE225003	250	3	3 x 6AWG	.115	2.23	2.36	4060	
XMVE235003	350	3	3 x 6AWG	.115	2.45	2.61	5264	
XMVE250003	500	3	3 x 5AWG	.115	2.75	2.92	7250	
XMVE275003	750	3	3 x 4AWG	.115	3.32	3.50	10505	

*Fittings are available for these products.

Note: The data shown are approximate and subject to standard industry and manufacturer tolerances. Please verify specific requirements with your Omni Cable account manager.

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