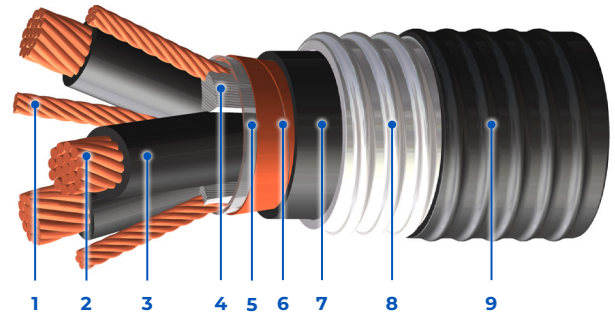


UL Type MC Armored VFD, Multi-Conductor, 600/1000 V

Shawflex VFD cables are the preferred power cables for AC Drives. These cables are primarily used between Pulse Width Modulation (PWM) inverters and AC motors. Shawflex VFD Tray cables are suitable for use in raceways, including ventilated, non-ventilated, indoor/outdoor and ladder-type cable trays in wet/dry locations and are applicable in Industrial and Processing facilities.

Standards:



- | | |
|--|--|
| 1 – Tri-sectional Grounding Conductors | 6 – Dual Helically Applied Bare/ Tin-coated Copper Tape Shield |
| 2 – Stranded Bare (ASTM B8) Annealed Copper Conductors | 7 – FR PVC Inner Protective Jacket |
| 3 – FR XLPE (XHHW-2 Rated) Insulated Conductors | 8 – Aluminum Interlocked Armor (AIA) (standard) |
| 4 – Polypropylene Fillers | 9 – FR PVC Outer Protective Jacket |
| 5 – Polyester Separator Tape | |

Product Construction

Insulation:

- FR XLPE (XHHW-2 rated) rated: 90°C wet/dry

Shielding:

- Dual helically applied copper tape shield

Armor:

- Aluminum Interlocking Armor (AIA) (standard)
- Steel Interlocking Armor (SIA) (optional)

Jacket:

- FR PVC outer black or yellow jacket (standard) rated: 90°C to -40°C
- Thermoset CPE (optional)
- Thermoplastic CPE (optional)
- Thermoplastic LSZH (optional)

Available in:

- Custom insulation/ jacket colors
- TC-ER (optional)

Certification/Compliances

- UL 1569, Metal Clad Cables (MC)
- UL 44, Thermoset Insulated Wires and Cables
- UL 1685/FT4, Vertical Tray Flame Test rated (optional)
- IEEE 1202/383 (70,000 BTU/hr), Vertical Flame Test rated (optional)
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (XHHW-2 rated), 90°C wet/dry
- UV sunlight resistant "SUN RES" (all colors)

- Direct burial rated
- 40°C cold bend rated
- Rated for use in hazardous locations:
 - Class I Zone 2 (Div 2)
 - Class II Zone 20, 21 (Div 1)
 - Class II Zone 22 (Div 2)

Color Coding

- 3C – Black, # coded
- Method 4 (optional)

600/ 1000 V

Voltage
(1000 V optional)

UL Type MC

VFD Power

UL Type MC Armored VFD, Multi-Conductor, 600/1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE (AWG/ kcmil)	GROUND WIRE SIZE (UNINSULATED) (AWG/ kcmil)	OD OVER INNER JACKET (in/mm)	NORMAL DIAMETERS		CABLE WEIGHT (lbs/1000ft) (kg/km)	AMPACITY (30°C ambient)	MAX PULLING TENSION (PULLING EYE) (lb/kg)	MIN BEND RADIUS (PULL) (in/mm)
					OVER ARMOR (in/mm)	OVERALL CABLE (in/mm)				
2C61HU1203003DR	3	12	3 x 16	0.439 / 11.1	0.678 / 17.2	0.798 / 20.3	386 / 574	30	157 / 71	14.4 / 365
2C61HU1003003DR	3	10	3 x 14	0.500 / 12.7	0.740 / 18.8	0.900 / 22.9	538 / 800	40	249 / 113	16.2 / 412
2C61HU0803003DR	3	8	3 x 14	0.657 / 16.7	0.897 / 22.8	1.057 / 26.9	769 / 1144	55	397 / 180	19 / 483
2C613U0603003DR	3	6	3 x 12	0.737 / 18.7	0.977 / 24.8	1.137 / 28.9	982 / 1462	75	629 / 285	20.5 / 520
2C613U0403003DR	3	4	3 x 12	0.838 / 21.3	1.042 / 26.5	1.202 / 30.5	1256 / 1870	95	1002 / 454	21.6 / 549
2C613U0203003DR	3	2	3 x 10	1.003 / 25.5	1.207 / 30.7	1.367 / 34.7	1755 / 2612	130	1593 / 723	24.6 / 625
2C613U0103403DR	3	1	3 x 10	1.129 / 28.7	1.334 / 33.9	1.493 / 37.9	2125 / 3163	145	2009 / 911	26.9 / 683
2C613U1/03403DR	3	1/0	3 x 10	1.215 / 30.9	1.420 / 36.1	1.579 / 40.1	2498 / 3717	170	2534 / 1150	28.4 / 722
2C613U2/03403DR	3	2/0	3 x 10	1.308 / 33.2	1.512 / 38.4	1.672 / 42.5	2922 / 4348	195	3194 / 1449	30.1 / 764
2C613U3/03403DR	3	3/0	3 x 8	1.417 / 36.0	1.622 / 41.2	1.842 / 46.8	3621 / 5389	225	4007 / 1818	33.1 / 842
2C613U4/03403DR	3	4/0	3 x 8	1.538 / 39.1	1.742 / 44.2	1.962 / 49.8	4296 / 6393	260	5078 / 2304	35.3 / 897
2C613U2503603DR	3	250	3 x 8	1.680 / 42.7	1.985 / 50.4	2.205 / 56.0	5194 / 7730	290	6000 / 2722	39.7 / 1008
2C613U3503603DR	3	350	3 x 6	1.961 / 49.8	2.266 / 57.6	2.486 / 63.2	6960 / 10358	350	8400 / 3810	44.8 / 1137
2C613U5003603DR	3	500	3 x 6	2.236 / 56.8	2.542 / 64.6	2.822 / 71.7	9325 / 13877	430	12000 / 5443	50.8 / 1290
2C613U7503603DR	3	750	3 x 4	2.686 / 68.2	2.991 / 76.0	3.271 / 83.1	13110 / 19509	535	18000 / 8165	58.9 / 1495

*Ampacity value based on National Electrical Code, Version 2020, Table 310.16. Values are corrected according to Table 310.15(C)(1) for number of Conductors