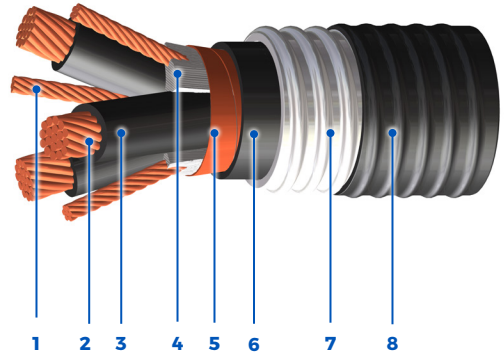


# CSA Armoured VFD, Multi-Conductor, 1000 V

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
- 2 - Stranded Bare (ASTM B8) Annealed Copper Conductors
- 3 - XLPE (RW90 Rated) Insulated Conductors
- 4 - Polypropylene Fillers
- 5 - Dual Helically Applied Bare/Tin-coated Copper Tape Shield
- 6 - FR LAG PVC Inner Protective Jacket
- 7 - Aluminum Interlocked Armour (AIA) (standard)
- 8 - FR LAG PVC Outer Protective Jacket

## Product Construction

### Insulation:

- XLPE (RW90 rated) rated: 90°C wet/105°C dry

### Shielding:

- Dual helically applied copper tape shield

### Armour:

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

### Jacket:

- FR LAG PVC (AG14 rated) inner black jacket
- FR LAG PVC (AG14 rated) outer black or yellow jacket (standard) rated: 90°C to -40°C

### Available in:

- Custom insulation/jacket colours
- LSZH Jacket

## Certification/Compliances

- CSA C22.2 #131, Teck 90 Cable
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 #38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- - 40°C cold bend/impact rated
- Rated for use in hazardous locations:
  - Class I Zone 0 (Intrinsically Safe cables only)
  - Class 1 Zone 1 (Div 1)
  - Class 1 Zone 2 (Div 2)

## 1000 V

### Voltage

Optional: 600/5000 V

## CSA Type TECK 90

VFD Power

### Color Coding

- 3C - Black, # coded

# CSA Armoured VFD, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	GROUND WIRE SIZE	OD OVER INNER JACKET	NORMAL DIAMETERS		CABLE WEIGHT	AMPACITY	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
					OVER ARMOUR	OVERALL CABLE				
		AWG/kcmil	AWG/kcmil	in/mm	in/mm	in/mm	lbs/1000ft kg/km	30°C ambient	lb/kg	in/mm
8021HM1203007DR	3	12	18	0.503 / 12.78	0.743 / 18.88	0.823 / 20.91	401 / 597	30	157 / 71	14.8 / 376
8021HM1003007DR	3	10	16	0.595 / 15.11	0.835 / 21.21	0.915 / 23.24	544 / 810	40	249 / 113	16.5 / 418
8021HM0803007DR	3	8	14	0.657 / 16.69	0.897 / 22.79	0.977 / 24.82	687 / 1022	55	397 / 180	17.6 / 447
80213M0603007DR	3	6	12	0.801 / 20.35	1.041 / 26.45	1.121 / 28.48	1047 / 1559	75	629 / 285	20.2 / 513
80213M0403007DR	3	4	12	0.942 / 23.94	1.182 / 30.03	1.262 / 32.06	1357 / 2020	95	1002 / 454	22.7 / 577
80213M0203007DR	3	2	10	1.067 / 27.1	1.307 / 33.2	1.387 / 35.23	1809 / 2692	130	1593 / 723	25 / 634
80213M0103407DR	3	1	10	1.237 / 31.42	1.477 / 37.51	1.557 / 39.55	2286 / 3402	145	2009 / 911	28 / 712
80213M1/03407DR	3	1/0	10	1.323 / 33.6	1.563 / 39.7	1.659 / 42.14	2671 / 3975	170	2534 / 1150	29.9 / 758
80213M2/03407DR	3	2/0	10	1.415 / 35.95	1.655 / 42.05	1.751 / 44.48	3104 / 4620	195	3194 / 1449	31.5 / 801
80213M3/03407DR	3	3/0	8	1.525 / 38.74	1.83 / 46.48	1.926 / 48.92	3809 / 5669	225	4007 / 1818	34.7 / 881
80213M4/03407DR	3	4/0	8	1.645 / 41.79	1.95 / 49.54	2.046 / 51.98	4492 / 6685	260	5078 / 2304	36.8 / 936
80213M2503607DR	3	250	8	1.847 / 46.92	2.152 / 54.67	2.248 / 57.11	5328 / 7930	290	6000 / 2722	40.5 / 1028
80213M3503607DR	3	350	6	2.069 / 52.55	2.374 / 60.29	2.494 / 63.34	7008 / 10430	350	8400 / 3810	44.9 / 1140
80213M5003607DR	3	500	6	2.344 / 59.54	2.649 / 67.28	2.769 / 70.33	9214 / 13713	430	12000 / 5443	49.8 / 1266
80213M7503607DR	3	750	6	2.729 / 69.31	3.034 / 77.06	3.168 / 80.46	12906 / 19206	535	18000 / 8165	57 / 1448

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2.