

CSA Type TECK 90 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:



Product Construction

Insulation:

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

Shielding:

- Helically applied copper tape shield

Armour:

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

Jacket:

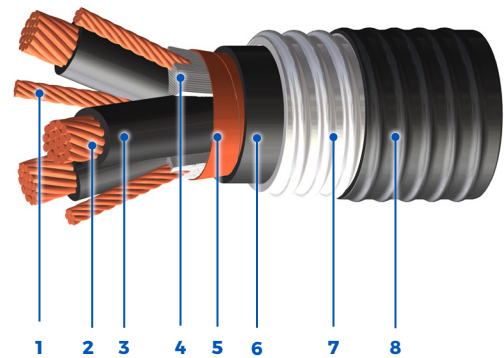
- FR LAG PVC (AG14 rated) inner black jacket
- FR LAG PVC (AG14 rated) outer black or yellow jacket (standard)
rated: 90°C to -40°C

Available in:

- Custom insulation/jacket colours
- LSZH Jacket

Certification/Compliances

- CSA C22.2 No. 131, Type TECK 90 cable
- CSA C22.2 No. 174, Cables and cable glands for use in hazardous locations
- CSA C22.2 No. 38, Thermoset-insulated wires and cables
- CSA C22.2 No. 2556/UL 2556 FT4, Vertical Tray Flame Test rated
- IEEE 383/1202 (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:
 - Zone 0 (Class 1, Division 1) (Intrinsically Safe circuits only)
 - Zone 1 (Class I, Division 1), Zone 2 (Class I, Division 2)
 - Zone 20 & 21 (Class II & III, Division 1), Zone 22 (Class II & III, Division 2)



1 – Tri-sectional Bonding Conductors

2 – Stranded Bare Copper Conductors (Tin-coated Available)

3 – XLPE (RW90 Rated) Insulated Conductors

4 – Polypropylene Fillers

5 – Helically Applied Bare Copper Tape Shield

6 – FR LAG PVC Inner Protective Jacket

7 – Aluminum Interlocked Armour (AIA) (standard)

8 – FR LAG PVC Outer Protective Jacket

1000 V

Voltage

Optional: 600, 5000 V

CSA Type TECK 90

VFD Power

Colour Coding

- 3C – Black, # coded

CSA Type TECK 90 Armoured VFD, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG or kcmil	AWG	in. mm	in. mm	in. mm	lb/1000ft kg/km	30°C ambient	lb kg	in. mm
8021HM1203007DR	3	12	3 x 18	0.503 12.78	0.744 18.9	0.836 21.2	335 499	30	157 71	15.1 382
8021HM1003007DR	3	10	3 x 16	0.595 15.11	0.836 21.2	0.928 23.6	454 676	40	249 113	16.7 424
8021HM0803007DR	3	8	3 x 14	0.657 16.69	0.898 22.8	0.990 25.2	565 841	55	397 180	17.8 453
80213M0603007DR	3	6	3 x 12	0.801 20.35	1.043 26.5	1.135 28.8	843 1255	75	629 285	20.4 519
80213M0403007DR	3	4	3 x 12	0.942 23.94	1.184 30.1	1.276 32.4	1085 1615	95	1002 454	23.0 583
80213M0203007DR	3	2	3 x 10	1.067 27.1	1.309 33.2	1.401 35.6	1434 2134	130	1593 723	25.2 640
80213M0103407DR	3	1	3 x 10	1.237 31.42	1.479 37.6	1.571 39.9	1766 2627	145	2009 911	28.3 718
80213M1/03407DR	3	1/0	3 x 10	1.323 33.6	1.565 39.8	1.673 42.5	2052 3054	170	2534 1150	30.1 765
80213M2/03407DR	3	2/0	3 x 10	1.415 35.95	1.658 42.1	1.766 44.9	2375 3535	195	3194 1449	31.8 807
80213M3/03407DR	3	3/0	3 x 8	1.525 38.74	1.833 46.6	1.941 49.3	2934 4366	225	4027 1827	34.9 887
80213M4/03407DR	3	4/0	3 x 8	1.645 41.79	1.954 49.6	2.062 52.4	3460 5149	260	5078 2304	37.1 943
80213M2503607DR	3	250	3 x 8	1.847 46.92	2.156 54.8	2.264 57.5	4111 6118	290	6000 2722	40.7 1035
80213M3503607DR	3	350	3 x 6	2.069 52.55	2.378 60.4	2.510 63.7	5409 8050	350	8400 3810	45.2 1147
80213M5003607DR	3	500	3 x 6	2.344 59.54	2.348 59.7	2.786 70.8	7070 10522	430	12000 5443	50.1 1274
80213M7503607DR	3	750	3 x 6	2.729 69.31	3.039 77.2	3.185 80.9	9808 14596	535	18000 8165	57.3 1456

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 2. Values are corrected for number of insulated conductors as applicable according to Table 5C.