

CSA Type RW90 CIC TC Tray 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

Jacket:

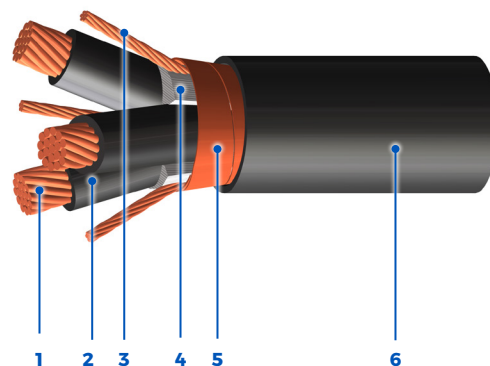
- FR PVC outer black or yellow jacket (standard)
rated: 90°C to -40°C

Available in:

- Custom insulation/jacket colours
- LSZH Jacket

Certification/Compliances

- CSA C22.2 No. 230, Tray cables
- CSA C22.2 No. 239, Control and instrumentation cables
- 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 2 (Class I, Division 2)
 - Zone 22 (Class II & III, Division 2)



1 – Strand Bare Copper Conductors (Tin-coated Available)

2 – XLPE (RW90 Rated) Insulated Conductor

3 – Tri-sectional Bonding Conductors

4 – Polypropylene Fillers

5 – Helically Applied Bare Copper Tape Shield

6 – FR PVC Outer Protective Jacket

1000 V

Voltage

Optional: 600,
2000 V

CSA Type CIC RW90 TC

VFD Power

Colour Coding

- 3C – Black, # coded

†Note:

• Type CIC and 105°C insulation temperature dry rating applicable to 20 - 4/0 AWG copper conductor sizes, in 300, 600, and 1000 V. In all other constructions, the insulation temperature dry rating is 90°C.

• Type RW90 applicable to 14 AWG - 2000 kcmil copper conductor sizes, in 600, 1000, and 2000 V.

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PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	GROUND WIRE SIZE	NOMINAL DIAMETER OVERALL CABLE	CABLE WEIGHT	AMPACITY*	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
		AWG or kcmil	AWG	in. mm	lb/1000ft kg/km	30°C ambient	lb kg	in. mm
4D01HM1203000DR	3	12	3 x 18	0.503 12.8	178 266	30	157 71	9.1 230
4D01HM1003000DR	3	10	3 x 16	0.595 15.1	276 410	40	249 113	10.7 272
4D01HM0803000DR	3	8	3 x 14	0.657 16.7	377 561	55	397 180	11.8 300
4D013M0603000DR	3	6	3 x 12	0.801 20.4	561 834	75	629 285	14.4 366
4D013M0403000DR	3	4	3 x 12	0.942 24.0	788 1173	95	1002 454	17.0 431
4D013M0203000DR	3	2	3 x 10	1.067 27.1	1111 1653	130	1593 723	19.2 488
4D013M0103400DR	3	1	3 x 10	1.237 31.4	1394 2075	145	2009 911	22.3 566
4D013M1/03400DR	3	1/0	3 x 10	1.323 33.6	1643 2446	170	2534 1150	23.8 605
4D013M2/03400DR	3	2/0	3 x 10	1.415 36.0	1965 2925	195	3194 1449	25.5 647
4D013M3/03400DR	3	3/0	3 x 8	1.525 38.7	2409 3584	225	4007 1818	27.5 697
4D013M4/03400DR	3	4/0	3 x 8	1.645 41.8	2896 4310	260	5078 2304	29.6 752
4D013M2503600DR	3	250	3 x 8	1.847 46.9	3379 5028	290	6000 2722	33.3 845
4D013M3503600DR	3	350	3 x 6	2.069 52.6	4669 6949	350	8400 3810	37.2 946
4D013M5003600DR	3	500	3 x 6	2.344 59.5	6305 9383	430	12000 5443	42.2 1072
4D013M7503600DR	3	750	3 x 6	2.729 69.3	8638 12855	535	18000 8165	49.1 1248

*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.