

UL TRAY, TC-ER, VFD, XLPE/PVC, XHHW-2 600V

SPEC: SF610VFD

Shawflex VFD Cables are a preferred power cable for AC Drives as the Tri-sectional symmetrical bare grounds in contact with the copper tape shield greatly reduce harmonic interference ensuring smooth and safe motor operation. Permitted for Exposed Run (ER) use in accordance with NEC, reducing installation cost and time.

VOLTAGE

600 V

PRODUCT CONSTRUCTION

Conductor:

- 3 conductor, 14 AWG through 750 KCMIL in compliance with Class B strand ASTM B8, ASTM B3 or ASTM B33 with options available

Insulation:

- Cross-linked Polyethylene (Type XHHW-2). 90°C DRY/WET

Ground:

- Tri-sectional symmetrical grounds in contact with shield, in compliance with Class B strand ASTM B8, ASTM B3 or ASTM B33, options available

Metallic Shield:

- Helically applied copper tape, 100% coverage*

Jacket:

- Polyvinyl Chloride (PVC), Sunlight Resistant in black

CERTIFICATION/COMPLIANCES

- UL 1277, Tray Cable (TC-ER)
- UL 44 Type XHHW-2
- IEEE 1202/FT4, UL 1685
- ICEA T-29-520
- SUN RES in all colors
- DIR BUR
- -40°C Cold Bend
- OIL RES I

COLOR CODING

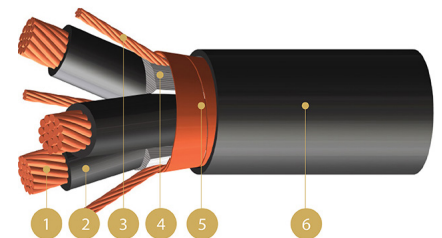
- Color-coded per ICEA Method 4, Individual conductors colored black with conductor number ink printed on surface

LEGEND

- SHAWFLEX 3C XXXKCMIL 600V (UL) TC-ER (VFD)
- XHHW-2 90C WET/DRY SUN RES OIL RES I DIRECT BURIAL OS SHIELDED
- IEEE 1202/FT4 90C PVC JACKET
- MADE IN CANADA
- Part # (mo#) (month year)
- (sequential footage marking every 2 feet)

* Single helically applied copper tape for size 8 and smaller

600 V VOLTAGE UL Type TC-ER VFD CONTROL AND POWER



1. Stranded Bare (ASTM B8) Annealed Copper Conductors
2. XLPE (XHHW-2 Rated) Insulated Conductors
3. Tri-sectional Grounding Conductors
4. Polypropylene Fillers
5. Dual Helically Applied Bare/Tinned Copper Tape Shield
6. FR PVC Outer Protective Jacket

APPLICATIONS:

- For use with AC motors controlled by pulse-width modulated (PWM) inverter in VFD applications
- Between cable trays and utilization equipment
- Permitted for Exposed Run (ER) use in accordance with NEC
- Cable tray, including ventilated, non-ventilated
- Indoor/outdoor
- Free air, raceways or direct burial
- Wet/dry locations
- Permitted for use in hazardous locations per NEC:
 - Class I, Zone 2 (Div 2)
 - Class II, Div 2

STANDARDS:

TC-ER  

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PART NUMBER	CONDUCTOR COUNT	CONDUCTOR SIZE	BARE GROUNDING CONDUCTOR	NOMINAL OVERALL DIAMETER OF CABLE	CABLE WEIGHT	AMPACITY 30°C AMBIENT	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
		AWG	AWG	IN	LBS/1000FT	AMPS	LB	IN
2C01HU1403003DR	3C+ 3G	14	3 X 18	0.40	130	25	99	7.21
2C01HU1203003DR	3C+ 3G	12	3 X 16	0.44	172	30	157	7.91
2C01HU1003003DR	3C+ 3G	10	3 X 14	0.50	255	40	249	9.02
2C01HU0803003DR	3C+ 3G	8	3 X 14	0.66	386	55	396	11.85
2C013U0603003DR	3C+ 3G	6	3 X 12	0.74	539	75	630	13.29
2C013U0403003DR	3C+ 3G	4	3 X 12	0.84	710	95	1002	15.11
2C013U0203003DR	3C+ 3G	2	3 X 10	1.00	1060	130	1593	18.08
2C013U0103403DR	3C+ 3G	1	3 X 10	1.13	1299	145	2009	20.37
2C013U1/03403DR	3C+ 3G	1/0	3 X 10	1.22	1549	170	2534	21.92
2C013U2/03403DR	3C+ 3G	2/0	3 X 10	1.31	1843	195	3194	23.59
2C013U3/03403DR	3C+ 3G	3/0	3 X 8	1.42	2267	225	4027	25.56
2C013U4/03403DR	3C+ 3G	4/0	3 X 8	1.54	2752	260	5078	27.73
2C013U2503603DR	3C+ 3G	250	3 X 8	1.74	3259	290	6000	31.37
2C013U3503603DR	3C+ 3G	350	3 X 6	1.96	4491	350	8400	35.37
2C013U5003603DR	3C+ 3G	500	3 X 6	2.24	5975	430	12000	40.33
2C013U7503603DR	3C+ 3G	750	3 X 4	2.69	8963	535	18000	48.44

*Ampacity value based on National Electrical Code, Version 2017, Table 3-10.15(B)(16).

Single helically applied copper tape shield for size 8 and smaller

FOR FURTHER INFORMATION, PLEASE CONTACT:

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