

UL TRAY, TC-ER, VFD, XLPE/CPE, RHW-2 2000V

SPEC: SF2030VFD

Shawflex 2000V XLPE/CPE UL Tray 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

2000 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 RHW-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:

- Thermoplastic Chlorinated Polyethylene (CPE)
*Cross-linked Chlorinated Polyethylene (XL-CPE) is available

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

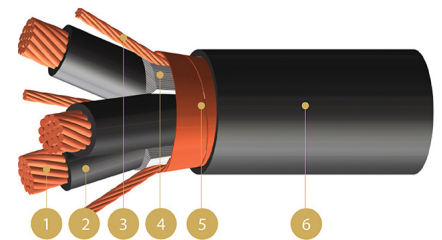
COLOR CODING

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

LEGEND

- SHAWFLEX 3C XXXKCMIL 2000V (UL) TC-ER (VFD)
 - RHW-2 90C WET/DRY SUN RES OIL RES I & II 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

2000 V VOLTAGE UL Type TC-ER VFD CONTROL AND POWER



1. Stranded Bare (ASTM B8) Annealed Copper Conductors
2. XLPE (RHW-2 Rated) Insulated Conductors
3. Tri-sectional Grounding Conductors
4. Polypropylene Fillers
5. Dual Helically Applied Bare/Tinned Copper Tape Shield
6. CPE 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
2K01HU1403004DR	3C+ 3G	14	3 X 18	0.53	183	25	99	9.5
2K01HU1203004DR	3C+ 3G	12	3 X 16	0.6	244	30	157	10.8
2K01HU1003004DR	3C+ 3G	10	3 X 14	0.66	342	40	249	11.9
2K01HU0803004DR	3C+ 3G	8	3 X 14	0.77	468	55	396	13.8
2K013U0603004DR	3C+ 3G	6	3 X 12	0.89	641	75	630	15.9
2K013U0403004DR	3C+ 3G	4	3 X 12	0.99	820	95	1002	17.8
2K013U0203004DR	3C+ 3G	2	3 X 10	1.11	1141	130	1593	20
2K013U0103404DR	3C+ 3G	1	3 X 10	1.28	1444	145	2009	23.1
2K013U1/03404DR	3C+ 3G	Jan-00	3 X 10	1.37	1682	170	2534	24.6
2K013U2/03404DR	3C+ 3G	Feb-00	3 X 10	1.46	1999	195	3194	26.3
2K013U3/03404DR	3C+ 3G	Mar-00	3 X 8	1.57	2446	225	4027	28.3
2K013U4/03404DR	3C+ 3G	Apr-00	3 X 8	1.75	3051	260	5078	31.5
2K013U2503604DR	3C+ 3G	250	3 X 8	1.92	3472	290	6000	34.5
2K013U3503604DR	3C+ 3G	350	3 X 6	2.14	4739	350	8400	38.5
2K013U5003604DR	3C+ 3G	500	3 X 6	2.41	6434	430	12000	43.4
2K013U7503604DR	3C+ 3G	750	3 X 4	2.92	9304	535	18000	52.6

*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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