

UL TRAY, TC-ER, SHIELDED, CONTROL, XLPE/CPE, XHHW-2 600V

SPEC: SF631C

ShawFlex UL Tray XLPE/CPE Overall Aluminum/Mylar Shielded Control cables are suitable for use in Utility and Industrial applications. The overall aluminum/mylar shielding effectively protects from electromagnetic interference. TC-ER cables are permitted for Exposed Run (ER) use in accordance with NEC, reducing installation cost and time. Oil Res I/II ensures the best protection in chemical environment.

VOLTAGE

600 V

PRODUCT CONSTRUCTION

Conductor:

- 18AWG thru 10Kcmil fully annealed standard bare copper per Class B ASTM B8 stranding
- *Tinned annealed copper conductor is available

Insulation:

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

Shielding:

- Overall aluminum/mylar shielding in contact with stranded tinned copper drain wire
- *Copper tape shielding, and copper braid are available

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/II

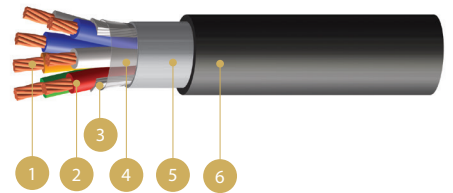
COLOR CODING

- Color-coded per ICEA Method 1, Table E-2
- *Optional color codes are available

LEGEND

- SHAWFLEX 4C XX AWG 600V (UL) TC-ER
- XHHW-2 90C WET/DRY SUN RES OIL RES I & II OS SHIELDED
- DIRECT BURIAL IEEE1202/FT4 90C CPE JACKET MADE IN CANADA
- Part # (mo#) (month year)
- (sequential footage marking every 2 feet)

600 V VOLTAGE UL Type TC-ER CONTROL OVERALL ALUMINUM / MYLAR SHIELDED



1. Bare Copper Conductors (Tinned Available)
2. FR XLPE (XHHW-2 rated) Insulated Conductors
3. Polypropylene Fillers
4. Clear Mylar Tape
5. Overall Aluminum/Mylar Shielding
6. PVC Protective Jacket

APPLICATIONS:

- For use in control circuits in electric utility, and industrial applications
- Permitted for Exposed Run (ER) between cable trays and utilization equipment 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  

PART NUMBER	CONDUCTOR COUNT	SIZE	NOMINAL OVERALL DIAMETER OF CABLE	CABLE WEIGHT	AMPACITY 30°C AMBIENT	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
		AWG	IN	LBS/1000FT	AMPS	LB	IN
2V011U140200401	2C	14	0.38	79	25	65.8	6.79
2V011U140300401	3C	14	0.40	98	25	98.6	7.16
2V011U140400401	4C	14	0.43	121	20	131.5	7.78
2V011U140500401	5C	14	0.47	141	20	164.4	8.46
2V011U140600401	6C	14	0.51	165	20	197.3	9.18
2V011U140700401	7C	14	0.51	180	17.5	230.2	9.18
2V011U140800401	8C	14	0.58	221	17.5	263.0	10.44
2V011U141000401	10C	14	0.67	272	12.5	328.8	12.11
2V011U141200401	12C	14	0.69	310	12.5	394.6	12.47
2V011U141400401	14C	14	0.73	353	12.5	460.3	13.09
2V011U141600401	16C	14	0.77	393	12.5	526.1	13.79
2V011U142000401	20C	14	0.89	514	12.5	657.6	15.95
2V011U143000401	30C	14	1.03	721	11.25	986.4	18.60
2V011U144000401	40C	14	1.15	925	10	1315.2	20.73
2V011U145000401	50C	14	1.28	1133	8.75	1644.0	22.98
2V011U120200401	2C	12	0.41	102	30	104.5	7.43
2V011U120300401	3C	12	0.44	131	30	156.7	7.86
2V011U120400401	4C	12	0.48	161	24	209.0	8.56
2V011U120500401	5C	12	0.52	195	24	261.2	9.34
2V011U120600401	6C	12	0.59	246	24	313.4	10.69
2V011U120700401	7C	12	0.59	270	21	365.7	10.69
2V011U120800401	8C	12	0.64	299	21	417.9	11.51
2V011U121000401	10C	12	0.75	371	15	522.4	13.41
2V011U121200401	12C	12	0.77	427	15	626.9	13.82
2V011U121400401	14C	12	0.81	485	15	731.4	14.52
2V011U121600401	16C	12	0.89	574	15	835.8	16.03
2V011U122000401	20C	12	0.98	706	15	1044.8	17.66
2V011U123000401	30C	12	1.15	1002	13.5	1567.2	20.68
2V011U124000401	40C	12	1.28	1294	12	2089.6	23.10
2V011U125000401	50C	12	1.43	1593	10.5	2612.0	25.66
2V011U100200401	2C	10	0.46	136	40	166.1	8.33
2V011U100300401	3C	10	0.49	178	40	249.1	8.82
2V011U100400401	4C	10	0.54	226	32	332.2	9.65
2V011U100500401	5C	10	0.62	287	32	415.2	11.09
2V011U100600401	6C	10	0.67	338	32	498.2	12.04
2V011U100700401	7C	10	0.67	374	28	581.3	12.04
2V011U100800401	8C	10	0.72	420	28	664.3	12.99
2V011U101000401	10C	10	0.84	521	20	830.4	15.21
2V011U101200401	12C	10	0.91	639	20	996.5	16.41
2V011U101400401	14C	10	0.96	729	20	1162.6	17.23
2V011U101600401	16C	10	1.01	812	20	1328.6	18.15
2V011U102000401	20C	10	1.11	1005	20	1660.8	20.05
2V011U103000401	30C	10	1.31	1440	18	2491.2	23.56
2V011U104000401	40C	10	1.47	1869	16	3321.6	26.38
2V011U105000401	50C	10	1.63	2310	14	4152.0	29.36

*Ampacity value based on National Electrical Code, Version 2017, Table 3-10.15(B)(16). Values are corrected according to Table 310.15(B)(3)(a) for number of Conductors.

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