

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

SPEC: SF641C

ShawFlex UL Tray EPR/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:

- FR Ethylene Propylene Rubber (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

For 18 AWG and 16 AWG

- SHAWFLEX 4C 18 AWG 600V (UL) TC-ER
- FREPR RFH-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)

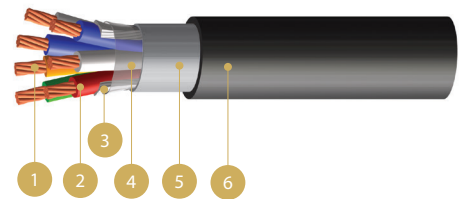
For 14 AWG thru 10 AWG

- 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)

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Version: 01 2018/DEC/12

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



1. Bare Copper Conductors (Tinned Available)
2. FR Ethylene Propylene Rubber (EPR) Insulated Conductors
3. Polypropylene Fillers
4. Clear Mylar Tape
5. Overall Aluminum/Mylar Shielding
6. CPE 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  

 SHAWCOR

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
2M011U140200401	2C	14	0.38	80	25	65.8	6.79
2M011U140300401	3C	14	0.40	99	25	98.6	7.16
2M011U140400401	4C	14	0.43	122	20	131.5	7.78
2M011U140500401	5C	14	0.47	142	20	164.4	8.46
2M011U140600401	6C	14	0.51	167	20	197.3	9.18
2M011U140700401	7C	14	0.51	182	17.5	230.2	9.18
2M011U140800401	8C	14	0.58	223	17.5	263.0	10.44
2M011U141000401	10C	14	0.67	275	12.5	328.8	12.11
2M011U141200401	12C	14	0.69	313	12.5	394.6	12.47
2M011U141400401	14C	14	0.73	357	12.5	460.3	13.09
2M011U141600401	16C	14	0.77	397	12.5	526.1	13.79
2M011U142000401	20C	14	0.89	520	12.5	657.6	15.95
2M011U143000401	30C	14	1.03	729	11.25	986.4	18.60
2M011U144000401	40C	14	1.15	936	10	1315.2	20.73
2M011U145000401	50C	14	1.28	1147	8.75	1644.0	22.98
2M011U120200401	2C	12	0.41	103	30	104.5	7.43
2M011U120300401	3C	12	0.44	132	30	156.7	7.86
2M011U120400401	4C	12	0.48	162	24	209.0	8.56
2M011U120500401	5C	12	0.52	197	24	261.2	9.34
2M011U120600401	6C	12	0.59	248	24	313.4	10.69
2M011U120700401	7C	12	0.59	272	21	365.7	10.69
2M011U120800401	8C	12	0.64	301	21	417.9	11.51
2M011U121000401	10C	12	0.75	374	15	522.4	13.41
2M011U121200401	12C	12	0.77	431	15	626.9	13.82
2M011U121400401	14C	12	0.81	490	15	731.4	14.52
2M011U121600401	16C	12	0.89	580	15	835.8	16.03
2M011U122000401	20C	12	0.98	713	15	1044.8	17.66
2M011U123000401	30C	12	1.15	1012	13.5	1567.2	20.68
2M011U124000401	40C	12	1.28	1307	12	2089.6	23.10
2M011U125000401	50C	12	1.43	1610	10.5	2612.0	25.66
2M011U100200401	2C	10	0.46	137	40	166.1	8.33
2M011U100300401	3C	10	0.49	179	40	249.1	8.82
2M011U100400401	4C	10	0.54	228	32	332.2	9.65
2M011U100500401	5C	10	0.62	289	32	415.2	11.09
2M011U100600401	6C	10	0.67	341	32	498.2	12.04
2M011U100700401	7C	10	0.67	377	28	581.3	12.04
2M011U100800401	8C	10	0.72	423	28	664.3	12.99
2M011U101000401	10C	10	0.84	525	20	830.4	15.21
2M011U101200401	12C	10	0.91	644	20	996.5	16.41
2M011U101400401	14C	10	0.96	735	20	1162.6	17.23
2M011U101600401	16C	10	1.01	819	20	1328.6	18.15
2M011U102000401	20C	10	1.11	1014	20	1660.8	20.05
2M011U103000401	30C	10	1.31	1452	18	2491.2	23.56
2M011U104000401	40C	10	1.47	1886	16	3321.6	26.38
2M011U105000401	50C	10	1.63	2331	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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