

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

SPEC: SF640C

ShawFlex UL Tray EPR/CPE Control cables are suitable for use in Utility and Industrial applications. 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 (EPR) Type XHHW-2. 90°C DRY/WET

### 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

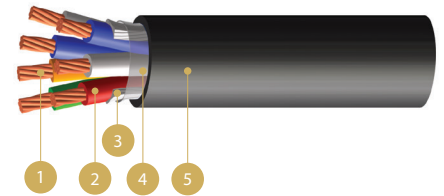
For 18 AWG and 16 AWG

- 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
- FREPR XHHW-2 90C WET/DRY SUN RES OIL RES I & II
- 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



1. Bare Copper Conductors (Tinned Available)
2. FR Ethylene Propylene Rubber (EPR) Insulated Conductors
3. Polypropylene Fillers
4. Polyester Separator Tape
5. 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  

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
2M010U140200401	2C	14	0.37	75	25	65.8	3.35
2M010U140300401	3C	14	0.39	93	25	98.6	3.53
2M010U140400401	4C	14	0.43	117	20	131.5	3.84
2M010U140500401	5C	14	0.47	137	20	164.4	4.19
2M010U140600401	6C	14	0.51	161	20	197.3	4.55
2M010U140700401	7C	14	0.51	177	17.5	230.2	4.55
2M010U140800401	8C	14	0.57	217	17.5	263.0	5.17
2M010U141000401	10C	14	0.67	269	12.5	328.8	6.01
2M010U141200401	12C	14	0.69	307	12.5	394.6	6.19
2M010U141400401	14C	14	0.72	350	12.5	460.3	6.50
2M010U141600401	16C	14	0.76	391	12.5	526.1	6.85
2M010U142000401	20C	14	0.84	481	12.5	657.6	7.57
2M010U143000401	30C	14	1.03	722	11.25	986.4	9.26
2M010U144000401	40C	14	1.15	928	10	1315.2	10.32
2M010U145000401	50C	14	1.27	1139	8.75	1644.0	11.45
2M010U120200401	2C	12	0.41	98	30	104.5	3.67
2M010U120300401	3C	12	0.43	127	30	156.7	3.88
2M010U120400401	4C	12	0.47	157	24	209.0	4.23
2M010U120500401	5C	12	0.51	191	24	261.2	4.62
2M010U120600401	6C	12	0.59	242	24	313.4	5.30
2M010U120700401	7C	12	0.59	266	21	365.7	5.30
2M010U120800401	8C	12	0.63	296	21	417.9	5.71
2M010U121000401	10C	12	0.74	368	15	522.4	6.66
2M010U121200401	12C	12	0.76	425	15	626.9	6.86
2M010U121400401	14C	12	0.80	483	15	731.4	7.22
2M010U121600401	16C	12	0.89	573	15	835.8	7.97
2M010U122000401	20C	12	0.98	705	15	1044.8	8.79
2M010U123000401	30C	12	1.14	1004	13.5	1567.2	10.30
2M010U124000401	40C	12	1.28	1299	12	2089.6	11.50
2M010U125000401	50C	12	1.42	1601	10.5	2612.0	12.78
2M010U100200401	2C	10	0.46	132	40	166.1	4.12
2M010U100300401	3C	10	0.49	174	40	249.1	4.37
2M010U100400401	4C	10	0.53	222	32	332.2	4.78
2M010U100500401	5C	10	0.61	283	32	415.2	5.50
2M010U100600401	6C	10	0.66	335	32	498.2	5.98
2M010U100700401	7C	10	0.66	371	28	581.3	5.98
2M010U100800401	8C	10	0.72	417	28	664.3	6.45
2M010U101000401	10C	10	0.84	519	20	830.4	7.56
2M010U101200401	12C	10	0.91	636	20	996.5	8.16
2M010U101400401	14C	10	0.95	728	20	1162.6	8.57
2M010U101600401	16C	10	1.00	812	20	1328.6	9.03
2M010U102000401	20C	10	1.11	1006	20	1660.8	9.98
2M010U103000401	30C	10	1.30	1444	18	2491.2	11.74
2M010U104000401	40C	10	1.46	1877	16	3321.6	13.15
2M010U105000401	50C	10	1.63	2320	14	4152.0	14.64

\*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

### FOR FURTHER INFORMATION, PLEASE CONTACT:

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