

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

SPEC: SF635C

ShawFlex UL Tray XLPE/CPE Longitudinal Corrugated Copper Tape Shielded Control cables are suitable for use in Utility and Industrial applications. The overall longitudinal copper tape 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:

- 14AWG 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 Longitudinal Corrugated 5mil copper tape
- \*Aluminum Mylar 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
- VW-1 rated
- 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)

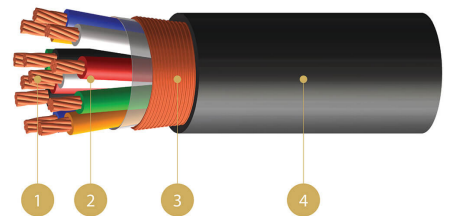
# 600 V

## VOLTAGE

# UL Type TC-ER

## CONTROL

## LONGITUDINAL CORRUGATED COPPER TAPE SHIELDED



1. Standard Bare (ASTM B8) Annealed Copper Conductors (Tinned Available)
2. FR XLPE (XHHW-2 Rated) Insulated Conductors
3. Longitudinal Corrugated 5 ml Copper Tape Shielding
4. 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
2V015U140200401	2C	14	0.47	117	25	65.8	8.39
2V015U140300401	3C	14	0.49	135	25	98.6	8.76
2V015U140400401	4C	14	0.52	158	20	131.5	9.38
2V015U140500401	5C	14	0.59	200	20	164.4	10.60
2V015U140600401	6C	14	0.64	227	20	197.3	11.50
2V015U140700401	7C	14	0.64	241	17.5	230.2	11.50
2V015U140800401	8C	14	0.67	272	17.5	263.0	12.04
2V015U141000401	10C	14	0.76	328	12.5	328.8	13.72
2V015U141200401	12C	14	0.78	366	12.5	394.6	14.08
2V015U141400401	14C	14	0.81	413	12.5	460.3	14.52
2V015U141600401	16C	14	0.89	485	12.5	526.1	15.93
2V015U142000401	20C	14	0.96	590	12.5	657.6	17.37
2V015U143000401	30C	14	1.13	812	11.25	986.4	20.39
2V015U144000401	40C	14	1.23	1024	10	1315.2	22.16
2V015U145000401	50C	14	1.37	1240	8.75	1644.0	24.59
2V015U120200401	2C	12	0.49	139	30	104.5	8.86
2V015U120300401	3C	12	0.52	167	30	156.7	9.28
2V015U120400401	4C	12	0.58	218	24	209.0	10.52
2V015U120500401	5C	12	0.64	255	24	261.2	11.48
2V015U120600401	6C	12	0.68	297	24	313.4	12.29
2V015U120700401	7C	12	0.68	320	21	365.7	12.29
2V015U120800401	8C	12	0.75	352	21	417.9	13.47
2V015U121000401	10C	12	0.82	431	15	522.4	14.83
2V015U121200401	12C	12	0.89	519	15	626.9	15.96
2V015U121400401	14C	12	0.93	592	15	731.4	16.67
2V015U121600401	16C	12	0.98	651	15	835.8	17.63
2V015U122000401	20C	12	1.07	795	15	1044.8	19.27
2V015U123000401	30C	12	1.23	1101	13.5	1567.2	22.10
2V015U124000401	40C	12	1.37	1400	12	2089.6	24.70
2V015U125000401	50C	12	1.51	1712	10.5	2612.0	27.26
2V015U100200401	2C	10	0.58	195	40	166.1	10.48
2V015U100300401	3C	10	0.60	236	40	249.1	10.79
2V015U100400401	4C	10	0.64	291	32	332.2	11.61
2V015U100500401	5C	10	0.75	342	32	415.2	13.41
2V015U100600401	6C	10	0.76	394	32	498.2	13.64
2V015U100700401	7C	10	0.76	430	28	581.3	13.64
2V015U100800401	8C	10	0.80	480	28	664.3	14.41
2V015U101000401	10C	10	0.97	631	20	830.4	17.53
2V015U101200401	12C	10	0.99	720	20	996.5	17.83
2V015U101400401	14C	10	1.05	812	20	1162.6	18.83
2V015U101600401	16C	10	1.10	901	20	1328.6	19.75
2V015U102000401	20C	10	1.19	1098	20	1660.8	21.47
2V015U103000401	30C	10	1.41	1554	18	2491.2	25.35
2V015U104000401	40C	10	1.55	1994	16	3321.6	27.99
2V015U105000401	50C	10	1.79	2548	14	4152.0	32.23

\*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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