

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

SPEC: SF630P

ShawFlex UL Tray XLPE/CPE Power 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:

- 14AWG thru 750Kcmil 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

### 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

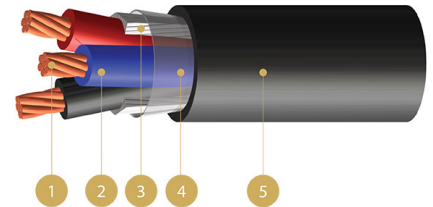
- Color-coded per ICEA Method 1, Table E-2  
\*Optional color codes are available

## LEGEND

- SHAWFLEX 3C XX AWG 600V (UL) TC-ER
- 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)

\*UL 1277 requires a ground with three conductors to be rated ER for conductor size 6 AWG +

# 600 V VOLTAGE UL Type TC-ER POWER



1. Bare Copper Conductors (Tinned Available)
2. Cross-linked Polyethylene (Type XHHW-2) 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	GROUND WIRE SIZE (UNINSULATED)	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
2V010U140300401	3C	14	-	0.393	92.7	25	98.64	3.53
2V010U120300401	3C	12	-	0.431	125.5	30	156.72	3.88
2V010U100300401	3C	10	-	0.485	172.7	40	249.12	4.37
2V010U080300401	3C	8	-	0.642	290.0	55	396.24	5.78
2V010U060300401	3C	6	-	0.726	402.0	75	629.76	6.53
2V010U040300414	3C + G	4	8	0.827	621.7	95	1001.76	7.45
2V010U020300414	3C + G	2	6	0.992	951.8	130	1592.64	8.93
2V010U010340414	3C + G	1	6	1.119	1192.1	145	2008.56	10.07
2V010U1/0340414	3C + G	1/0	6	1.206	1425.6	170	2534.4	10.85
2V010U2/0340414	3C + G	2/0	6	1.298	1719.2	195	3194.4	11.68
2V010U3/0340414	3C + G	3/0	4	1.408	2134.3	225	4027.2	12.67
2V010U4/0340414	3C + G	4/0	4	1.529	2605.3	260	5078.4	13.76
2V010U250360414	3C + G	250	4	1.671	3048.5	290	6000	15.04
2V010U300360414	3C + G	300	3	1.845	3723.0	320	7200	16.61
2V010U350360414	3C + G	350	3	1.953	4226.2	350	8400	17.58
2V010U500360414	3C + G	500	2	2.229	5802.5	430	12000	20.06
2V010U750360414	3C + G	750	1	2.679	8537.0	535	18000	24.11

\*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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