

UL TRAY, TC-ER, UNSHIELDED, CONTROL, XLPE/PVC, XHHW-2 600V

SPEC: SF620C

ShawFlex UL Tray Unshielded Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, between cable trays and utilization equipment, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations. Permitted for Exposed Run (ER) use in accordance with NEC, reducing installation cost and time. Offering superior performance in harsh environment with all color sunlight resistance jacket, -40C cold bend, and oil resistance.

VOLTAGE

600 V

PRODUCT CONSTRUCTION

Conductor:

- 14 AWG through 10 AWG fully annealed standard bare copper per Class B ASTM B8 stranding

Insulation:

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

Jacket:

- Polyvinyl Chloride (PVC), Sunlight Resistant in all colors

CERTIFICATION/COMPLIANCES

- UL 1277, Tray Cable (TC-ER)
- UL 44 Type XHHW-2
- IEEE 1202/FT4, UL 1685
- ICEA T-29-520
- UL 1581/UL 2556 VW-1
- SUN RES in all colors
- DIR BUR
- -40°C Cold Bend
- OIL RES I

COLOR CODING

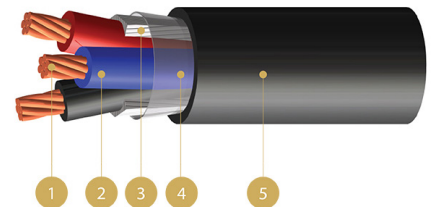
- Color-coded per ICEA Method 1, Table E-2

*Optional color codes are available

LEGEND

- SHAWFLEX 3C XX AWG 600V (UL) TC-ER
- XHHW-2 90C WET/DRY SUN RES DIRECT BURIAL
- IEEE 1202/FT4 90C PVC JACKET OIL RES I
- MADE IN CANADA
- Part # (mo#) (month year)
- (sequential footage marking every 2 feet)

600 V VOLTAGE UL Type TC-ER CONTROL



1. Stranded Bare (ASTM B8) Annealed Copper Conductors (Tinned Available)
2. FR XLPE (XHHW-2 Rated) Insulated Conductors
3. Polypropylene Fillers
4. Polyester Separator Tape
5. FR PVC Outer Protective Jacket

APPLICATIONS:

- For use in control circuits in industrial, commercial and electric utility.
- Between cable trays and utilization equipment
Permitted for Exposed Run (ER) use 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
2V010U140200201	2	14	0.37	74	25	66	3.35
2V010U140300201	3	14	0.39	92	25	99	3.53
2V010U140400201	4	14	0.43	115	20	132	3.84
2V010U140500201	5	14	0.47	135	20	164	4.19
2V010U140600201	6	14	0.51	159	20	197	4.55
2V010U140700201	7	14	0.51	174	17.5	230	4.55
2V010U140800201	8	14	0.57	215	17.5	263	5.17
2V010U141000201	10	14	0.67	266	12.5	329	6.01
2V010U141200201	12	14	0.69	303	12.5	395	6.19
2V010U141400201	14	14	0.72	346	12.5	460	6.50
2V010U141600201	16	14	0.76	385	12.5	526	6.85
2V010U142000201	20	14	0.84	474	12.5	658	7.57
2V010U143000201	30	14	1.03	713	11.25	986	9.26
2V010U144000201	40	14	1.15	915	10	1315	10.32
2V010U145000201	50	14	1.27	1123	8.75	1644	11.45
2V010U120200201	2	12	0.41	97	30	104	3.67
2V010U120300201	3	12	0.43	125	30	157	3.88
2V010U120400201	4	12	0.47	155	24	209	4.23
2V010U120500201	5	12	0.51	189	24	261	4.62
2V010U120600201	6	12	0.59	240	24	313	5.30
2V010U120700201	7	12	0.59	263	21	366	5.30
2V010U120800201	8	12	0.63	292	21	418	5.71
2V010U121000201	10	12	0.74	363	15	522	6.66
2V010U121200201	12	12	0.76	420	15	627	6.86
2V010U121400201	14	12	0.80	478	15	731	7.22
2V010U121600201	16	12	0.89	567	15	836	7.97
2V010U122000201	20	12	0.98	697	15	1045	8.79
2V010U123000201	30	12	1.14	992	13.5	1567	10.30
2V010U124000201	40	12	1.28	1284	12	2090	11.50
2V010U125000201	50	12	1.42	1582	10.5	2612	12.78
2V010U100200201	2	10	0.46	131	40	166	4.12
2V010U100300201	3	10	0.49	172	40	249	4.37
2V010U100400201	4	10	0.53	220	32	332	4.78
2V010U100500201	5	10	0.61	280	32	415	5.50
2V010U100600201	6	10	0.66	332	32	498	5.98
2V010U100700201	7	10	0.66	368	28	581	5.98
2V010U100800201	8	10	0.72	412	28	664	6.45
2V010U101000201	10	10	0.84	514	20	830	7.56
2V010U101200201	12	10	0.91	630	20	996	8.16
2V010U101400201	14	10	0.95	721	20	1163	8.57
2V010U101600201	16	10	1.00	804	20	1329	9.03
2V010U102000201	20	10	1.11	996	20	1661	9.98
2V010U103000201	30	10	1.30	1430	18	2491	11.74
2V010U104000201	40	10	1.46	1858	16	3322	13.15
2V010U105000201	50	10	1.63	2297	14	4152	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.

Note: Two conductor cables are Type TC only (Not ER rated).

FOR FURTHER INFORMATION, PLEASE CONTACT:

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Version: 01 2018/AUG/29