

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

SPEC: SF621C

ShawFlex UL Tray XLPE/PVC 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 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 aluminum/mylar shielding in contact with stranded tinned copper drain wire
- *Copper tape shielding, and copper braid are available

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
- UL 1581/UL 2556 VW-1
- ICEA T-29-520
- SUN RES in all colors
- DIR BUR
- 40°C Cold Bend
- OIL RES I

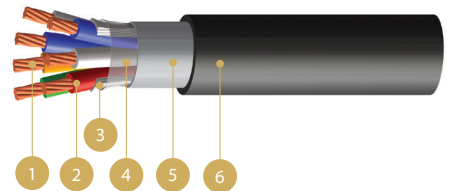
COLOR CODING

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

LEGEND

- SHAWFLEX 4C XX AWG 600V (UL) TC-ER
- XHHW-2 90C WET/DRY SUN RES OIL RES I OS SHIELDED
- DIRECT BURIAL IEEE1202/FT4 90C PVC JACKET MADE IN CANADA
- Part # (mo#) (month year)
- (sequential footage marking every 2 feet)

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



- Bare Copper Conductors (Tinned Available)
- Cross-linked Polyethylene (Type XHHW-2) Insulated Conductors
- Polypropylene Fillers
- Clear Mylar Tape
- Overall Aluminum/Mylar Shielding
- PVC 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
2V011U140200201	2C	14	0.38	79	25	65.8	6.79
2V011U140300201	3C	14	0.40	98	25	98.6	7.16
2V011U140400201	4C	14	0.43	120	20	131.5	7.78
2V011U140500201	5C	14	0.47	140	20	164.4	8.46
2V011U140600201	6C	14	0.51	165	20	197.3	9.18
2V011U140700201	7C	14	0.51	180	17.5	230.2	9.18
2V011U140800201	8C	14	0.58	221	17.5	263.0	10.44
2V011U141000201	10C	14	0.67	272	12.5	328.8	12.11
2V011U141200201	12C	14	0.69	309	12.5	394.6	12.47
2V011U141400201	14C	14	0.73	352	12.5	460.3	13.09
2V011U141600201	16C	14	0.77	392	12.5	526.1	13.79
2V011U142000201	20C	14	0.89	513	12.5	657.6	15.95
2V011U143000201	30C	14	1.03	720	11.25	986.4	18.60
2V011U144000201	40C	14	1.15	924	10	1315.2	20.73
2V011U145000201	50C	14	1.28	1131	8.75	1644.0	22.98
2V011U120200201	2C	12	0.41	102	30	104.5	7.43
2V011U120300201	3C	12	0.44	130	30	156.7	7.86
2V011U120400201	4C	12	0.48	160	24	209.0	8.56
2V011U120500201	5C	12	0.52	194	24	261.2	9.34
2V011U120600201	6C	12	0.59	246	24	313.4	10.69
2V011U120700201	7C	12	0.59	269	21	365.7	10.69
2V011U120800201	8C	12	0.64	298	21	417.9	11.51
2V011U121000201	10C	12	0.75	370	15	522.4	13.41
2V011U121200201	12C	12	0.77	426	15	626.9	13.82
2V011U121400201	14C	12	0.81	484	15	731.4	14.52
2V011U121600201	16C	12	0.89	573	15	835.8	16.03
2V011U122000201	20C	12	0.98	705	15	1044.8	17.66
2V011U123000201	30C	12	1.15	1000	13.5	1567.2	20.68
2V011U124000201	40C	12	1.28	1292	12	2089.6	23.10
2V011U125000201	50C	12	1.43	1591	10.5	2612.0	25.66
2V011U100200201	2C	10	0.46	136	40	166.1	8.33
2V011U100300201	3C	10	0.49	178	40	249.1	8.82
2V011U100400201	4C	10	0.54	225	32	332.2	9.65
2V011U100500201	5C	10	0.62	286	32	415.2	11.09
2V011U100600201	6C	10	0.67	338	32	498.2	12.04
2V011U100700201	7C	10	0.67	374	28	581.3	12.04
2V011U100800201	8C	10	0.72	419	28	664.3	12.99
2V011U101000201	10C	10	0.84	520	20	830.4	15.21
2V011U101200201	12C	10	0.91	637	20	996.5	16.41
2V011U101400201	14C	10	0.96	728	20	1162.6	17.23
2V011U101600201	16C	10	1.01	811	20	1328.6	18.15
2V011U102000201	20C	10	1.11	1004	20	1660.8	20.05
2V011U103000201	30C	10	1.31	1438	18	2491.2	23.56
2V011U104000201	40C	10	1.47	1867	16	3321.6	26.38
2V011U105000201	50C	10	1.63	2308	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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