

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

SPEC: SF63HC

ShawFlex UL Tray XLPE/CPE Overall Helical Copper Tape Shielded Control cables are suitable for use in Utility and Industrial applications. The overall copper tape shielding effectively protects from electromagnetic interference. TC-ER are cables 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 10AWG 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 Single Helical 5mil copper tape
- *Aluminum Mylar, Longitudinal Corrugated Copper Tape 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)

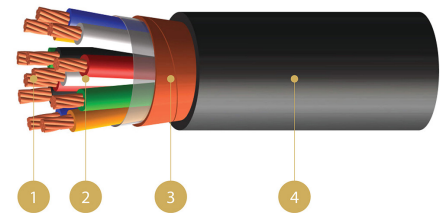
600 V

VOLTAGE

UL Type TC-ER

CONTROL

OVERALL HELICAL COPPER TAPE SHIELDED



1. Standard Bare (ASTM B8) Annealed Copper Conductors (Tinned Available)
2. FR XLPE (XHHW-2 Rated) Insulated Conductors
3. Overall Helical 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
2V01HU140200401	2C	14	0.40	101	25	65.8	7.13
2V01HU140300401	3C	14	0.42	122	25	98.6	7.50
2V01HU140400401	4C	14	0.45	148	20	131.5	8.12
2V01HU140500401	5C	14	0.49	171	20	164.4	8.80
2V01HU140600401	6C	14	0.53	199	20	197.3	9.52
2V01HU140700401	7C	14	0.53	215	17.5	230.2	9.52
2V01HU140800401	8C	14	0.60	260	17.5	263.0	10.78
2V01HU141000401	10C	14	0.69	319	12.5	328.8	12.46
2V01HU141200401	12C	14	0.71	359	12.5	394.6	12.82
2V01HU141400401	14C	14	0.75	406	12.5	460.3	13.44
2V01HU141600401	16C	14	0.79	449	12.5	526.1	14.13
2V01HU142000401	20C	14	0.90	579	12.5	657.6	16.29
2V01HU143000401	30C	14	1.05	802	11.25	986.4	18.95
2V01HU144000401	40C	14	1.17	1019	10	1315.2	21.08
2V01HU145000401	50C	14	1.30	1240	8.75	1644.0	23.33
2V01HU120200401	2C	12	0.43	128	30	104.5	7.78
2V01HU120300401	3C	12	0.46	159	30	156.7	8.20
2V01HU120400401	4C	12	0.49	192	24	209.0	8.90
2V01HU120500401	5C	12	0.57	246	24	261.2	10.22
2V01HU120600401	6C	12	0.61	286	24	313.4	11.03
2V01HU120700401	7C	12	0.61	310	21	365.7	11.03
2V01HU120800401	8C	12	0.66	344	21	417.9	11.85
2V01HU121000401	10C	12	0.76	425	15	522.4	13.75
2V01HU121200401	12C	12	0.79	484	15	626.9	14.16
2V01HU121400401	14C	12	0.83	547	15	731.4	14.87
2V01HU121600401	16C	12	0.91	641	15	835.8	16.37
2V01HU122000401	20C	12	1.00	782	15	1044.8	18.01
2V01HU123000401	30C	12	1.17	1097	13.5	1567.2	21.02
2V01HU124000401	40C	12	1.30	1405	12	2089.6	23.44
2V01HU125000401	50C	12	1.44	1721	10.5	2612.0	26.00
2V01HU100200401	2C	10	0.48	166	40	166.1	8.68
2V01HU100300401	3C	10	0.51	211	40	249.1	9.17
2V01HU100400401	4C	10	0.58	279	32	332.2	10.53
2V01HU100500401	5C	10	0.64	329	32	415.2	11.43
2V01HU100600401	6C	10	0.69	386	32	498.2	12.38
2V01HU100700401	7C	10	0.69	423	28	581.3	12.38
2V01HU100800401	8C	10	0.74	473	28	664.3	13.33
2V01HU101000401	10C	10	0.90	620	20	830.4	16.27
2V01HU101200401	12C	10	0.93	708	20	996.5	16.75
2V01HU101400401	14C	10	0.98	804	20	1162.6	17.57
2V01HU101600401	16C	10	1.03	892	20	1328.6	18.49
2V01HU102000401	20C	10	1.13	1097	20	1660.8	20.39
2V01HU103000401	30C	10	1.33	1556	18	2491.2	23.91
2V01HU104000401	40C	10	1.48	2006	16	3321.6	26.73
2V01HU105000401	50C	10	1.65	2469	14	4152.0	29.71

*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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