

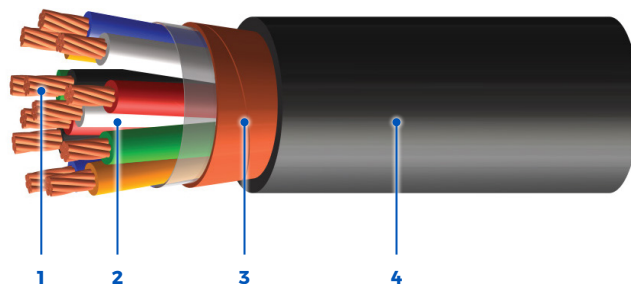
UL Unarmored Tray, TC-ER, Helical Copper Tape Shielded, Control, XLPE/PVC, Multi-Conductor, 600 V

SPEC: SF62HC

Shawflex UL Tray Helical Copper Tape Shielded Control cables offers the best effective way to protect your electrical property against the interference through induction and capacitive coupling in the complex electric magnetic field, for example in the substation environment. 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, -40°C cold bend, and oil resistance.

Standards:

TC-ER



1 – Stranded Bare Copper Conductors (Tin-coated Available)
2 – FR XLPE (XHHW-2 Rated) Insulated Conductors

3 – Overall Helical 5mil Copper Tape
4 – Polyvinyl Chloride (PVC) Jacket

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

Metallic Shield:

- Overall Helical 5mil copper tape

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)

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
- In 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

600 V

Voltage

UL Type TC-ER

Control

Overall Helical Copper Tape Shielded

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PART NUMBER	CONDUCTOR COUNT	CONDUCTOR 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)
2V01HU140200201	2	14	0.40	106	25	66	7.13
2V01HU140300201	3	14	0.42	127	25	99	7.50
2V01HU140400201	4	14	0.45	154	20	132	8.12
2V01HU140500201	5	14	0.49	178	20	164	8.80
2V01HU140600201	6	14	0.53	207	20	197	9.52
2V01HU140700201	7	14	0.53	222	17.5	230	9.52
2V01HU140800201	8	14	0.60	268	17.5	263	10.78
2V01HU141000201	10	14	0.69	329	12.5	329	12.46
2V01HU141200201	12	14	0.71	369	12.5	395	12.82
2V01HU141400201	14	14	0.75	416	12.5	460	13.44
2V01HU141600201	16	14	0.79	460	12.5	526	14.13
2V01HU142000201	20	14	0.90	592	12.5	658	16.29
2V01HU143000201	30	14	1.05	817	11.25	986	18.95
2V01HU144000201	40	14	1.17	1036	10	1315	21.08
2V01HU145000201	50	14	1.30	1260	8.75	1644	23.33
2V01HU120200201	2	12	0.43	133	30	104	7.78
2V01HU120300201	3	12	0.46	165	30	157	8.20
2V01HU120400201	4	12	0.49	199	24	209	8.90
2V01HU120500201	5	12	0.57	253	24	261	10.22
2V01HU120600201	6	12	0.61	295	24	313	11.03
2V01HU120700201	7	12	0.61	319	21	366	11.03
2V01HU120800201	8	12	0.66	353	21	418	11.85
2V01HU121000201	10	12	0.76	436	15	522	13.75
2V01HU121200201	12	12	0.79	496	15	627	14.16
2V01HU121400201	14	12	0.83	559	15	731	14.87
2V01HU121600201	16	12	0.91	654	15	836	16.37
2V01HU122000201	20	12	1.00	796	15	1045	18.01
2V01HU123000201	30	12	1.17	1114	13.5	1567	21.02
2V01HU124000201	40	12	1.30	1424	12	2090	23.44
2V01HU125000201	50	12	1.44	1743	10.5	2612	26.00
2V01HU100200201	2	10	0.48	173	40	166	8.68
2V01HU100300201	3	10	0.51	218	40	249	9.17

*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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		(AWG)	(in)	(lbs/1000ft)	(amps)	(lb)	(in)
2V01HU100400201	4	10	0.58	287	32	332	10.53
2V01HU100500201	5	10	0.64	338	32	415	11.43
2V01HU100600201	6	10	0.69	396	32	498	12.38
2V01HU100700201	7	10	0.69	432	28	581	12.38
2V01HU100800201	8	10	0.74	484	28	664	13.33
2V01HU101000201	10	10	0.90	632	20	830	16.27
2V01HU101200201	12	10	0.93	721	20	996	16.75
2V01HU101400201	14	10	0.98	818	20	1163	17.57
2V01HU101600201	16	10	1.03	907	20	1329	18.49
2V01HU102000201	20	10	1.13	1114	20	1661	20.39
2V01HU103000201	30	10	1.33	1576	18	2491	23.91
2V01HU104000201	40	10	1.48	2028	16	3322	26.73
2V01HU105000201	50	10	1.65	2494	14	4152	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