

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

SPEC: SF640P

ShawFlex UL Tray EPR/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:

- FR Ethylene Propylene Rubber (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
- ICEA T-29-520
- SUN RES in all colors
- DIR BUR
- -40°C Cold Bend
- OIL RES I/II

COLOR CODING

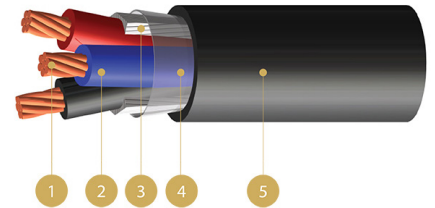
- Color-coded per ICEA Method 1, Table E-2
- *Optional color codes are available

LEGEND

- SHAWFLEX 3C XX AWG 600V (UL) TC-ER
- FREPR 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. FR Ethylene Propylene Rubber (EPR) 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
2M010U140300401	3C	14	-	0.39	93	25	98.6	3.53
2M010U120300401	3C	12	-	0.43	127	30	156.7	3.88
2M010U100300401	3C	10	-	0.49	174	40	249.1	4.37
2M010U080300401	3C	8	-	0.64	292	55	396.2	5.78
2M010U060300401	3C	6	-	0.73	405	75	629.8	6.53
2M010U040300414	3C + G	4	8	0.83	636	95	1001.8	7.45
2M010U020300414	3C + G	2	6	0.99	970	130	1592.6	8.93
2M010U010340414	3C + G	1	6	1.12	1216	145	2008.6	10.07
2M010U1/0340414	3C + G	1/0	6	1.21	1452	170	2534.4	10.85
2M010U2/0340414	3C + G	2/0	6	1.30	1749	195	3194.4	11.68
2M010U3/0340414	3C + G	3/0	4	1.41	2168	225	4027.2	12.67
2M010U4/0340414	3C + G	4/0	4	1.53	2644	260	5078.4	13.76
2M010U250360414	3C + G	250	4	1.67	3089	290	6000.0	15.04
2M010U300360414	3C + G	300	3	1.85	3767	320	7200.0	16.61
2M010U350360414	3C + G	350	3	1.95	4274	350	8400.0	17.58
2M010U500360414	3C + G	500	2	2.23	5858	430	12000.0	20.06
2M010U750360414	3C + G	750	1	2.68	8621	535	18000.0	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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Version: 01 2018/DEC/12

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