

# GenFree®

## XLPE/LSZH, Low-Voltage Power, Unshielded 600 V, UL Type TC-LS-ER—Method 4 Color Code

**Product Construction:**

**Conductor:**

- 14 AWG thru 750 kcmil tinned annealed copper per ASTM B33
- Class B stranding per ASTM B8

**Insulation:**

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

**Ground:**

- Uninsulated tinned annealed copper per ASTM B33
- Class B stranding per ASTM B8

**Jacket:**

- Lead-free, flame-retardant, sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

**Applications:**

- In free air, raceways, aerial or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with the NEC



**Features:**

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

**Compliances:**

**Industry Compliances:**

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581/UL 2556
- ICEA S-95-658/NEMA WC70
- ICEA T-33-655

**Flame Test Compliances:**

- UL 1581/UL 2556
- UL 1685 Vertical Flame Test
- IEEE 1202

**Other Compliances:**

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

**Packaging:**

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km

**14 AWG - 750 kcmil CONDUCTORS**

394930*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	55	82	118	176
394940*	3	12	7W	12	0.030	0.76	0.045	1.14	0.435	11.05	87	129	160	238
394950*	3	10	7W	10	0.030	0.76	0.045	1.14	0.485	12.32	124	184	194	289
14428.030800	3	8	7W	10	0.045	1.14	0.060	1.52	0.655	16.64	190	283	314	467
14428.040800*	4	8	7W	10	0.045	1.14	0.060	1.52	0.720	18.29	242	360	393	585
14428.030600	3	6	7W	8	0.045	1.14	0.060	1.52	0.740	18.80	297	442	456	679
14428.040600*	4	6	7W	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	561	835
14428.030400	3	4	7W	8	0.045	1.14	0.080	2.03	0.880	22.35	442	658	642	955
14428.040400*	4	4	7W	8	0.045	1.14	0.080	2.03	0.950	24.13	578	861	822	1223
14428.030200	3	2	7W	6	0.045	1.14	0.080	2.03	1.010	25.65	703	1046	979	1457
14428.040200*	4	2	7W	6	0.045	1.14	0.080	2.03	1.090	27.69	919	1368	1235	1838
14428.030100*	3	1	19W	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1021	1594
14428.040100*	4	1	19W	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1521	2264
14428.035100	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.225	31.12	1069	1591	1439	2142
14428.045100*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.330	33.78	1413	2103	1820	2709
14428.035200	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.300	33.02	1340	1994	1720	2560
14428.045200*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.440	36.58	1760	2619	2208	3286
14428.035300*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2176	3238
14428.045300*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	2788	3405
14428.035400	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.540	39.12	2130	3170	2614	3890
14428.045400*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.790	45.47	2796	4161	3495	5201
14428.036000*	3	250	37W	4	0.065	1.65	0.110	2.79	1.760	44.70	2494	3712	3184	4738
14428.046000*	4	250	37W	4	0.065	1.65	0.110	2.79	1.915	48.64	3282	4884	4019	5981
14428.036200	3	350	37W	3	0.065	1.65	0.110	2.79	1.960	49.78	3474	5170	4187	6231
14428.046200*	4	350	37W	3	0.065	1.65	0.110	2.79	2.165	54.99	4577	6811	5436	8090
14428.036500	3	500	37W	2	0.065	1.65	0.110	2.79	2.245	57.02	4934	7343	5847	8702
14428.046500*	4	500	37W	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7607	11321
14428.037000*	3	750	61W	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9145	13610
14428.047000*	4	750	61W	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11805	17569

Dimensions and weights are nominal; subject to industry tolerances.

\* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.