

# GenFree®

## XLPE/LSZH, Control

### 600 V, UL Type TC-LS-ER<sup>1</sup>—E-2 Color Code

**Product Construction:**

**Conductor:**

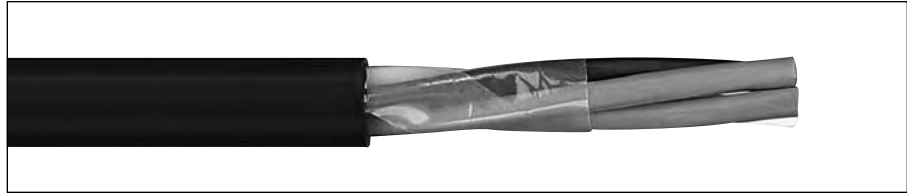
- 14 AWG thru 10 AWG stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

**Insulation:**

- Lead-free, flame-retardant, low-smoke Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

**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 for 3 or more conductors

**Features:**

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to 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
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

**Compliances:**

**Industry Compliances:**

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- 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)	COND. STRAND	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 CONDUCTORS**

394280	2 Flat	14	7W	0.030	0.76	0.045	1.14	.365 x .230	9.30 x 5.80	26	38	61	91
394290*	2	14	7W	0.030	0.76	0.045	1.14	0.370	9.40	26	39	71	106
394300	3	14	7W	0.030	0.76	0.045	1.14	0.390	9.91	39	59	92	137
394310*	4	14	7W	0.030	0.76	0.045	1.14	0.425	10.80	53	78	115	171
394320	5	14	7W	0.030	0.76	0.045	1.14	0.465	11.81	66	98	139	207
394330	7	14	7W	0.030	0.76	0.045	1.14	0.505	12.83	92	137	173	257
394340*	9	14	7W	0.030	0.76	0.060	1.52	0.620	15.75	118	176	240	357
394350*	12	14	7W	0.030	0.76	0.060	1.52	0.700	17.78	158	235	301	448
394360*	19	14	7W	0.030	0.76	0.060	1.52	0.815	20.70	250	372	468	696
394370*	25	14	7W	0.030	0.76	0.080	2.03	0.935	23.75	323	481	624	929
394380*	30	14	7W	0.030	0.76	0.080	2.03	1.030	26.16	387	576	747	1112
394390*	37	14	7W	0.030	0.76	0.080	2.03	1.110	28.19	466	694	875	1302

**12 AWG CONDUCTORS**

394400*	2 Flat	12	7W	0.030	0.76	0.045	1.14	.400 x .245	10.20 x 6.20	40	60	82	122
394410*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	41	61	94	140
394420 <sup>2</sup>	3+ Grnd	12	7W	0.030	0.76	0.045	1.14	0.435	11.05	85	127	148	220
394430	3	12	7W	0.030	0.76	0.045	1.14	0.435	11.05	64	95	124	185
394440*	4	12	7W	0.030	0.76	0.045	1.14	0.475	12.07	85	127	157	234
394450*	5	12	7W	0.030	0.76	0.045	1.14	0.520	13.21	106	158	191	284
394460*	7	12	7W	0.030	0.76	0.060	1.52	0.595	15.11	149	221	268	399
394470*	9	12	7W	0.030	0.76	0.060	1.52	0.695	17.65	191	285	337	502
394480*	12	12	7W	0.030	0.76	0.060	1.52	0.765	19.43	247	368	428	637
394490*	19	12	7W	0.030	0.76	0.080	2.03	0.940	23.88	391	582	688	1024
394500*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	854	1271
394510*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1002	1491
394520*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	762	1134	1240	1845

**10 AWG CONDUCTORS**

394530*	2 Flat	10	7W	0.030	0.76	0.045	1.14	.445 x .270	11.30 x 6.80	64	95	113	168
394540*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	97	128	190
394550 <sup>2</sup>	3+ Grnd	10	7W	0.030	0.76	0.045	1.14	0.485	12.32	134	199	225	335
394560	3	10	7W	0.030	0.76	0.045	1.14	0.485	12.32	100	150	172	256
394570	4	10	7W	0.030	0.76	0.060	1.52	0.560	14.22	134	199	234	348
394580*	5	10	7W	0.030	0.76	0.060	1.52	0.615	15.62	167	249	284	423
394590*	7	10	7W	0.030	0.76	0.060	1.52	0.670	17.02	234	349	381	567
394600*	9	10	7W	0.030	0.76	0.060	1.52	0.760	19.30	295	440	464	691
394610*	12	10	7W	0.030	0.76	0.080	2.03	0.905	22.99	402	598	651	696

Dimensions and weights are nominal; subject to industry tolerances.

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

<sup>1</sup> Approved as -ER for Exposed Run applications of 3 or more conductors as defined by the NEC.

<sup>2</sup> This construction does not require an -ER mark.