

# GenFree®

XLPE/LSZH, Instrumentation, Shielded  
600 V, UL Type TC-LS, Individual and Overall Shielded Pairs



### Product Construction:

#### Conductor:

- 18 AWG and 16 AWG 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 1: Pairs - black and white. One conductor in each pair is printed alpha-numerically for easy identification

#### Shield:

##### Individual and overall shielded pairs

- Individual pairs are 100% individually shielded with Flexfoil® aluminum/polyester in contact with stranded tinned copper drain wire
- Overall shield is Flexfoil® aluminum/polymer in contact with stranded tinned copper drain wire

#### 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

#### 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

#### Compliances:

##### Industry Compliances:

- UL 1277 Type TC-LS, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655

##### Flame Test Compliances:

- UL 1581
- 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 PAIRS	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

### INDIVIDUAL AND OVERALL SHIELDED PAIRS 18 AWG CONDUCTORS

393930*	2	18	7W	0.030	0.76	0.045	1.14	0.510	12.95	27	41	92	137
393940*	4	18	7W	0.030	0.76	0.060	1.52	0.630	16.00	53	78	167	249
393950*	8	18	7W	0.030	0.76	0.080	2.03	0.855	21.72	103	153	326	485
393960*	12	18	7W	0.030	0.76	0.080	2.03	1.030	26.16	153	228	441	656
393970*	16	18	7W	0.030	0.76	0.080	2.03	1.140	28.96	206	307	554	824
393980*	20	18	7W	0.030	0.76	0.080	2.03	1.265	32.13	254	378	676	1006
393990*	24	18	7W	0.030	0.76	0.080	2.03	1.450	36.83	311	463	795	1183
394000*	36	18	7W	0.030	0.76	0.010	2.79	1.650	41.91	461	687	1118	1664
394010*	50	18	7W	0.030	0.76	0.010	2.79	2.085	52.96	640	952	1616	2405

### INDIVIDUAL AND OVERALL SHIELDED PAIRS 16 AWG CONDUCTORS

394020	2	16	7W	0.030	0.76	0.060	1.52	0.585	14.86	40	59	130	193
394030	4	16	7W	0.030	0.76	0.060	1.52	0.675	17.15	77	114	204	304
394040*	6	16	7W	0.030	0.76	0.060	1.52	0.800	20.32	115	171	301	447
394050*	8	16	7W	0.030	0.76	0.080	2.03	0.915	23.24	151	225	394	586
394060*	12	16	7W	0.030	0.76	0.080	2.03	1.110	28.19	226	337	548	816
394070*	16	16	7W	0.030	0.76	0.080	2.03	1.350	34.29	305	453	713	1061
394080*	20	16	7W	0.030	0.76	0.080	2.03	1.365	34.67	380	566	850	1265
394090*	24	16	7W	0.030	0.76	0.080	2.03	1.570	39.88	455	677	1001	1490
394100*	36	16	7W	0.030	0.76	0.110	2.79	1.980	50.29	683	1016	1548	2304
394110*	50	16	7W	0.030	0.76	0.110	2.79	2.165	54.99	946	1408	2020	3006

Dimensions and weights are nominal; subject to industry tolerances.

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

