

GenFree® II High Speed

LSZH XLPO/LSZH XLPO, Low-Voltage Power, Unshielded
600 V, UL Type RHH/RHW-2-LSHF/USE-2 or 1000 V, c(UL) RW90



Product Construction:

Conductor:

- 14 AWG thru 1000 kcmil compressed tinned copper per ASTM B33
- Class B stranding per ASTM B8

Insulation:

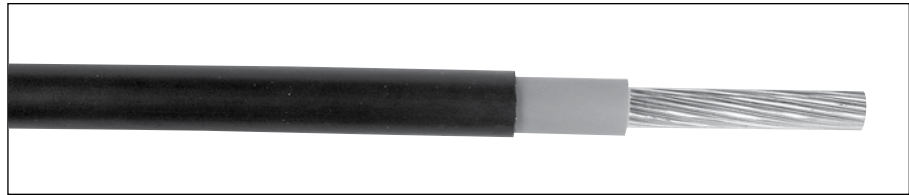
- Composite Low-Smoke, Zero-Halogen Cross-linked Polyolefin (LSZH XLPO) colored for contrast with black Low-Smoke, Zero-Halogen Cross-linked Polyolefin (LSZH XLPO)
- Colors available upon request

Applications:

- For use in closed environments or populated spaces such as auditoriums, arenas and health facilities where more stringent customer specifications for smoke and halogen-free materials are desired
- Ideally suited for use in a broad range of commercial, industrial, transit and utility applications where reliability is a major concern, where maximum performance will be demanded and where space is limited
- For use in free air, raceways or direct burial in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Low-Smoke, Zero-Halogen insulation system
- Extra-tough, mechanically rugged composite insulation construction
- High Speed low friction technology for easy cable pulling
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance, exceeding UL 44 requirements



Features (cont'd.):

- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Rated ST-1 for Limited Smoke per UL 44 on sizes 1/0 AWG and larger
- Stable electrical properties over a broad temperature range
- Excellent low temperature cold bend characteristics, meets cold bend and cold impact test at -40°C

Compliances:

- Industry Compliances:**
- National Electrical Code (NEC)
 - "FOR CT USE" on 1/0 AWG and larger in accordance with NEC
 - UL 44 Type RHH/RHW-2, UL File # E90494
 - c(UL) Type RW90 1 kV UL File # E90494
 - UL 854 Type USE-2, UL File # E90499
 - UL Listed Low-Smoke, Halogen-Free per UL 2885
 - Limited Smoke rating per UL 44 and UL 1685
 - ICEA T-33-655 smoke, halogen and acid gas requirements
 - Halogen content of cable material does not exceed 0.2%, and acid gas equivalent does not exceed 2.0%, according to the test method of MIL-C-24643
 - ICEA S-95-658/NEMA WC70
 - UL Listed VW-1 and PR1

Compliances (cont'd.):

Flame Test Compliances:

- For 1/0 AWG and larger: IEEE 383
- IEEE 1202/CSA FT4, FT1
- UL 1685
- UL 44 VW-1

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant
- NFPA 130 (1/0 & larger sizes)
- NES 713

Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG/kcmil)	COND. STRAND	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION				MINIMUM AVG. JACKET				COPPER WEIGHT		NET WEIGHT	
					THICKNESS		DIAMETER		THICKNESS		DIAMETER		LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm						

14 AWG - 1000 kcmil CONDUCTORS

14711.411400†	14	7W	0.07	1.78	0.030	0.76	0.14	3.56	0.015	0.38	0.17	4.32	13	19	24	36
14711.411200†	12	7W	0.09	2.29	0.030	0.76	0.16	4.06	0.015	0.38	0.19	4.83	20	30	33	49
14711.411000	10	7W	0.12	3.05	0.030	0.76	0.18	4.57	0.015	0.38	0.21	5.33	32	48	48	71
14711.410800	8	7W	0.15	3.81	0.045	1.14	0.24	6.10	0.015	0.38	0.28	7.11	50	75	77	115
14711.410600	6	7W	0.18	4.57	0.045	1.14	0.28	7.11	0.030	0.76	0.35	8.89	81	121	122	182
14711.410400	4	7W	0.23	5.84	0.045	1.14	0.33	8.38	0.030	0.76	0.39	9.91	129	192	178	265
14711.710200	2	7W	0.29	7.37	0.045	1.14	0.39	9.91	0.030	0.76	0.46	11.68	205	305	265	394
14711.715100	1/0	19W	0.37	9.40	0.055	1.40	0.48	12.19	0.045	1.14	0.58	14.73	326	485	422	628
14711.715200	2/0	19W	0.41	10.41	0.055	1.40	0.53	13.46	0.045	1.14	0.63	16.00	411	612	518	771
14711.715400	4/0	19W	0.52	13.21	0.055	1.40	0.64	16.26	0.045	1.14	0.74	18.80	653	972	785	1168
14711.716000	250	37W	0.56	14.22	0.065	1.65	0.70	17.78	0.065	1.65	0.85	21.59	772	1149	960	1429
14711.716200	350	37W	0.67	17.02	0.065	1.65	0.81	20.57	0.065	1.65	0.96	24.38	1081	1609	1299	1933
14711.716500	500	37W	0.80	20.32	0.065	1.65	0.94	23.88	0.065	1.65	1.09	27.69	1542	2295	1803	2683
14711.717000	750	61W	0.97	24.62	0.080	2.03	1.15	29.21	0.065	1.65	1.31	33.27	2316	3447	2664	3965
14711.717500*	1000	61W	1.13	28.70	0.080	2.03	1.31	33.27	0.065	1.65	1.46	37.08	3806	5664	3989	5936

Dimensions and weights are nominal; subject to industry tolerances.

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

† Not available with VW-1 rating.



Going Green with General Cable

General Cable has accelerated its environmental commitment, addressing its green alternative approach by identifying greener opportunities and promoting green cabling solutions wherever feasible. This includes promoting our existing green products, partnering with key customers in their green endeavors, identifying and providing for green product gaps, and participating as a member of the United States Green Building Council (USGBC) and collaborative ventures such as the Green Suppliers Network (GSN).

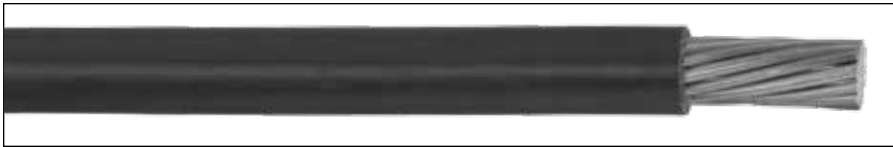


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GenFree® II High Speed

LSZH XLPO, Low-Voltage Power, Unshielded
600 V, UL Type XHHW-2-LSHF or c(UL) RW90



Product Construction:

Conductor:

- 1 AWG thru 1000 kcmil stranded annealed tinned copper per ASTM B33, compressed Class B stranding per ASTM B8
- 14 AWG thru 2 AWG stranded annealed tinned copper per ASTM B33, compressed Class C stranding per ASTM B8

Insulation:

- Low-Smoke, Zero-Halogen flame-retardant Cross-linked Polyolefin (LSZH XLPO), black
- Colors available upon request

Options:

- Other stranding available
- Colors available upon request

Applications:

- For use in all closed environments or populated spaces such as auditoriums, arenas, and health facilities where more stringent specifications for smoke and toxicity emission levels are desired
- Ideally suited for use in a broad range of commercial, industrial, transit and utility applications where reliability is a major concern, where maximum performance will be demanded and where space is limited

Applications (cont'd.):

- For use in free air, raceways or direct burial in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Low-Smoke, Zero-Halogen insulation reduces toxic emissions under fire conditions
- High Speed low friction technology for easy cable pulling
- Smaller cable O.D.
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance, exceeding UL 44 requirements
- Excellent resistance to crush, compression cuts and heat deformation
- Excellent flame resistance
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Rated ST1 for Limited Smoke per UL 44 on sizes 1/0 and larger
- Stable electrical properties over a broad temperature range
- Excellent low temperature cold bend characteristics, meets cold bend and cold impact test at -40°C

Compliances:

Industry Compliances:

- National Electrical Code (NEC®)
- "FOR CT USE" on 1/0 AWG and larger in accordance with NEC
- c(UL) Type RW90 UL File # E90494
- UL 44 Type XHHW-2, UL File # E90494
- UL Listed Low-Smoke, Halogen-Free per UL 2885
- Limited Smoke rating per UL 44 and UL 1685
- ICEA T-33-655 smoke, halogen, and acid gas requirements

- Halogen content of cable material does not exceed 0.2%, and acid gas equivalent does not exceed 2.0%, according to the test method of MIL-C-24643
- ICEA S-95-658/NEMA WC70
- UL Listed VW-1 and PR1

Flame Test Compliances:

- For 1/0 AWG and larger: IEEE 383, IEEE 1202/CSA FT4, FT1
- UL 1685

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant
- NFPA 130 (1/0 & larger sizes)
- NES 713

Packaging:

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

CATALOG NUMBER	COND. SIZE (AWG or kcmil)	NUMBER OF WIRES	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITY (1) 90°C
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	
14 AWG - 750 kcmil CONDUCTORS													
5125.014*†	14	19	0.07	1.80	0.030	0.76	0.13	3.38	12	18	17	25	25
5125.012*†	12	19	0.09	2.26	0.030	0.76	0.15	3.84	20	30	26	39	30
5125.010*	10	19	0.11	2.87	0.030	0.76	0.18	4.57	32	48	38	57	40
5125.008*	8	19	0.14	3.56	0.045	1.14	0.24	6.10	51	76	65	97	55
5125.006*	6	19	0.18	4.57	0.045	1.14	0.28	7.11	81	121	99	147	75
5125.004*	4	19	0.23	5.84	0.045	1.14	0.33	8.38	129	192	152	226	95
5125.002*	2	19	0.29	7.37	0.045	1.14	0.39	9.91	205	305	233	347	130
5125.001*	1	19	0.32	8.13	0.055	1.40	0.44	11.18	256	381	293	437	145
5125.110	1/0	19	0.36	9.14	0.055	1.40	0.48	12.19	326	485	364	572	170
5125.210	2/0	19	0.41	10.41	0.055	1.40	0.53	13.46	411	612	453	674	195
5125.310	3/0	19	0.46	11.68	0.055	1.40	0.58	14.73	518	772	565	842	225
5125.410	4/0	19	0.51	12.95	0.055	1.40	0.63	16.00	653	972	706	1051	260
5125.250	250	37	0.56	14.22	0.065	1.65	0.70	17.78	722	1074	837	1246	290
5125.350	350	37	0.66	16.76	0.065	1.65	0.80	20.32	1081	1609	1157	1722	350
5125.500	500	37	0.79	20.07	0.065	1.65	0.93	23.62	1544	2298	1634	2432	430
5125.600	600	61	0.87	22.10	0.080	2.03	1.04	26.42	1853	2758	1972	2935	475
5125.750	750	61	0.97	24.62	0.080	2.03	1.15	29.21	2316	3447	2448	3643	535

Dimensions and weights are nominal; subject to industry tolerances.

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

†Not available with VW-1 rating.

(1) Allowable ampacities shown are for general use as specified by the National Electric Code (NEC®), 2011 Edition, Section 310, 15(b)(16). Adjustments and corrections may apply.

90° C - Wet or dry locations. For ampacity derating purposes.

Dwelling - For dwelling units, conductors shall be permitted as listed ampacities at 120/240-volt, 3-wire, single-phase services and feeders.



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