

# GenFree® II High Speed

## LSZH XLPO, Low-Voltage Power

### 600 V, UL Type XHHW-2-LSHF or c(UL) RW90



#### Product Construction:

##### Conductor:

- 14 AWG thru 750 kcmil Class B stranded annealed tinned copper per ASTM B8 and B33
- 14 AWG thru 10 AWG solid annealed tinned copper per ASTM B33

##### Insulation:

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

##### Options:

- Other stranding available
- Colors available upon request

#### Applications:

- Suitable for use in populated confined spaces such as auditoriums, arenas, health care facilities and public transit facilities where more stringent specifications for flame, smoke and toxicity emission levels are desired
- For use in raceways and cable trays for service, feeder and branch circuits in accordance with the NEC®, Canadian Electric Code, NFPA-130 and NFPA-502

#### 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
- 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
- Oil and chemical resistant
- UV/sunlight-resistant
- Stable electrical properties over a broad temperature range
- Meets cold bend and cold impact test at -40°C

#### Compliances:

##### Industry Compliances:

- XHHW-2-LSHF per UL 44, UL File number E90494
- c(UL) RW90 per CSA C22.2 No. 38-14
- ST-1 Limited Smoke per UL 44 and UL 1685

- PR I Oil Resistance per UL 44
- -40°C Cold Bend and Impact per UL 44
- SUN RES per UL 44
- ICEA S-95-658/NEMA WC70

#### Flame, Smoke and Toxicity:

- IEEE 1202/FT4
- VW-1 sizes 10 AWG and larger
- FT1
- "FOR CT USE" ON 1/0 AWG and larger
- Low-Smoke, Halogen-Free per UL 2885
- Flame and Smoke release rate per UL 1685
- Halogen content less than 0.2% and acid gas less than 2.0% per MIL-C-24643
- ICEA T-33-655 for smoke, halogen and acid gas
- Toxicity Index less than 2.0 per NES 713
- ASTM E662, Optical Smoke Density

#### Other Compliances:

- NFPA 130 [2017], Sections 12.1 thru 12.3
- NFPA 502 [2017], Section 12.2
- 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	COND. SIZE (AWG or kcmil)	NUMBER OF WIRES	NOMINAL COND. DIAMETER		MINIMUM AVG. INSULATION THICKNESS		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITY <sup>(1)</sup> 60°C	AMPACITY <sup>(1)</sup> 75°C	AMPACITY <sup>(1)</sup> 90°C
			INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km			
<b>14 AWG - 10 AWG SOLID CONDUCTORS</b>															
5126.5014*	14	Solid	0.07	1.78	0.030	0.76	0.13	3.30	12	18	20	30	15	20	25
5126.5012	12	Solid	0.08	2.03	0.030	0.76	0.14	3.56	20	30	28	42	20	25	30
5126.5010	10	Solid	0.10	2.54	0.030	0.76	0.16	4.06	31	46	41	61	30	35	40
<b>14 AWG - 750 kcmil STRANDED CONDUCTORS</b>															
5126.014*	14	7	0.07	1.78	0.030	0.76	0.13	3.30	12	18	20	30	15	20	25
5126.012*	12	7	0.09	2.29	0.030	0.76	0.15	3.81	20	30	29	43	20	25	30
5126.010*	10	7	0.11	2.79	0.030	0.76	0.18	4.57	32	48	42	63	30	35	40
5126.008	8	7	0.14	3.56	0.045	1.14	0.24	6.10	51	76	71	106	40	50	55
5126.006	6	7	0.18	4.57	0.045	1.14	0.28	7.11	81	121	105	156	55	65	75
5126.004	4	7	0.23	5.84	0.045	1.14	0.33	8.38	129	192	161	240	70	85	95
5126.002	2	7	0.29	7.37	0.045	1.14	0.39	9.91	205	305	240	357	95	115	130
5126.001*	1	19	0.32	8.13	0.055	1.40	0.44	11.18	256	381	307	457	110	130	145
5126.110	1/0	19	0.36	9.14	0.055	1.40	0.48	12.19	326	485	383	570	125	150	170
5126.210	2/0	19	0.41	10.41	0.055	1.40	0.53	13.46	411	612	460	685	145	175	195
5126.310*	3/0	19	0.46	11.68	0.055	1.40	0.58	14.73	518	771	565	841	165	200	225
5126.410	4/0	19	0.51	12.95	0.055	1.40	0.63	16.00	653	972	717	1067	195	230	260
5126.250	250	37	0.56	14.22	0.065	1.65	0.70	17.78	722	1075	826	1229	215	255	290
5126.350	350	37	0.66	16.76	0.065	1.65	0.80	20.32	1081	1609	1157	1722	260	310	350
5126.500	500	37	0.79	20.07	0.065	1.65	0.93	23.62	1544	2298	1634	2432	320	380	430
5126.600*	600	61	0.87	22.10	0.080	2.03	1.04	26.42	1853	2758	1972	2935	350	420	475
5126.750	750	61	0.97	24.64	0.080	2.03	1.15	29.21	2316	3447	2448	3643	400	475	535

Dimensions and weights are nominal; subject to industry tolerances.

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

(1) Allowable ampacities shown are for general use as specified by the National Electric Code (NEC®), 2017 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.



#### 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).



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