

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 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:

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

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, NPFA 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:

- RHH/RHW-2 LSHF per UL 44, UL File number E90494
- USE-2 per UL 854, UL File number E90499

- 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 in accordance with the NEC
- 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, Chapter 12.1 thru 12.3
- NFPA 502, Chapter 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		AVG Jacket		NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITY ⁽¹⁾ 60°C	AMPACITY ⁽¹⁾ 75°C	AMPACITY ⁽¹⁾ 90°C
			INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km			
14 AWG - 10 AWG SOLID CONDUCTORS																	
5076.S014*	14	Solid	0.07	1.78	0.030	0.76	0.015	0.38	0.17	4.27	12	18	24	36	15	20	25
5076.S012*	12	Solid	0.08	2.03	0.030	0.76	0.015	0.38	0.18	4.52	20	30	33	49	20	25	30
5076.S010*	10	Solid	0.10	2.54	0.030	0.76	0.015	0.38	0.20	5.03	31	46	46	68	30	35	40
14 AWG - 750 kcmil STRANDED CONDUCTORS																	
5076.014*	14	7	0.07	1.78	0.030	0.76	0.015	0.38	0.17	4.32	13	19	24	36	15	20	25
5076.012*	12	7	0.09	2.29	0.030	0.76	0.015	0.38	0.19	4.83	20	30	33	49	20	25	30
5076.010*	10	7	0.11	2.79	0.030	0.76	0.015	0.38	0.21	5.33	32	48	48	71	30	35	40
5076.008	8	7	0.14	3.56	0.045	1.14	0.015	0.38	0.28	7.11	50	74	77	115	40	50	55
5076.006	6	7	0.18	4.57	0.045	1.14	0.030	0.76	0.35	8.89	81	121	122	182	55	65	75
5076.004	4	7	0.23	5.84	0.045	1.14	0.030	0.76	0.39	9.91	129	192	178	265	70	85	95
5076.002	2	7	0.29	7.37	0.045	1.14	0.030	0.76	0.46	11.68	205	305	265	394	95	115	130
5076.001*	1	19	0.32	8.13	0.055	1.40	0.045	1.14	0.53	13.51	258	384	346	515	110	130	145
5076.110	1/0	19	0.36	9.14	0.055	1.40	0.045	1.14	0.58	14.73	326	485	422	628	125	150	170
5076.210	2/0	19	0.41	10.41	0.055	1.40	0.045	1.14	0.63	16.00	411	612	518	771	145	175	195
5076.310*	3/0	19	0.46	11.68	0.055	1.40	0.045	1.14	0.67	17.07	518	771	635	945	165	200	225
5076.410	4/0	19	0.51	12.95	0.055	1.40	0.045	1.14	0.72	18.34	653	972	774	1151	195	230	260
5076.250	250	37	0.56	14.22	0.065	1.65	0.065	1.65	0.85	21.59	772	1149	960	1429	215	255	290
5076.350	350	37	0.66	16.76	0.065	1.65	0.065	1.65	0.96	24.38	1081	1609	1299	1933	260	310	350
5076.500	500	37	0.79	20.07	0.065	1.65	0.065	1.65	1.09	27.69	1542	2295	1803	2683	320	380	430
5076.600*	600	61	0.87	22.10	0.080	2.03	0.065	1.65	1.17	29.82	1853	2758	2155	3208	350	420	475
5076.750	750	61	0.97	24.64	0.080	2.03	0.065	1.65	1.31	33.27	2316	3447	2664	3965	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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