

GenPowr™ LSZH

Low-Voltage Power Cable
Innovative Industrial Solutions

BICC
BRAND

INDUSTRIAL

P r o d u c t B u l l e t i n

General Cable – Providing Innovative Solutions For a Challenging Industrial Marketplace

For over 100 years, General Cable has pioneered manufacturing processes and techniques which have resulted in the most reliable, long-life, and high performance industrial cables in the Industry. Today's 600 volt power cables are subject to a myriad of environmental, regulatory and performance standards. BICC® Brand power cables are designed to surpass these standards, delivering power to critical equipment without failure.

General Cable's GenPowr™ LSZH line of single conductor, Low-Smoke, Zero-Halogen, cross-linked polyolefin cables can be provided in Class B or flexible Class I stranding as standard products, with excellent performance benefits for even the most demanding applications. This line of cables is available in colors for ease of phase identification.

GenPowr LSZH cables are listed by UL as Type RHH/RHW/USE for general purpose applications and can be installed in duct, conduit, raceway, underground or aerial applications. GenPowr LSZH cables are rated for a maximum continuous conductor temperature of 90°C in dry locations and 75°C in wet locations and for installation in circuits not exceeding 600 volts. The low-smoke properties of the insulation/jacket compound make this product ideally suited for applications where limited smoke cables are required.

Features and Benefits

- Tinned Copper Conductor: *Resistance to Corrosion and Consistency of Termination*
- Flexible Class I Stranding: *Flexible Construction Facilitates Routing and Ease of Installation*
- Thermoset Polyolefin Insulation/Jacket: *Provides Rugged "Fail-Safe" Resistance to Fire, Heat, Moisture, Sunlight, Oil, etc.*
- Low-Smoke, Zero-Halogen: *Minimum Acid Gas and Smoke Emissions Under Combustion*



For more information contact your local General Cable representative.

GenPow™ LSZH, Low-Voltage Power, Unshielded, XLPO

600V, UL Type RHH/RHW/USE, CSA AWM I A/B, Single Conductor

Conductor:

- 6 AWG thru 750kcmil coated tinned copper per ASTM B3 & B33, Class B stranding per ASTM B8
- 6 AWG thru 750kcmil coated tinned copper per ASTM B3 & B33, Class I stranding per ASTM B172



Composite Insulation/Jacket:

- Flame retardant, oil resistant, limited smoke, Cross-Linked Polyolefin (XLPO)

Print:

General Cable® (MI) (UL) Type USE or RHH or RHW-LS VW-1 Size (AWG or KCMIL) 600V Oil Res. I Sun Res. FOR CT USE* / CSA AWM I A/B 105°C 600V FT4 month/year of MFG Sequential Footage Mark
* 'FOR CT USE' Listing for 1/0 AWG and larger

Options:

- Available as stock product in Black, Blue, Green and Red

Applications:

- General Purpose 600V Power Cable Applications
- For use in conduit, open tray, underground duct and aerial installations when properly supported and installed

- RHH/RHW Ratings for installation in conduit or raceway
- USE Rating for Direct Burial Applications
- CT rated for installation in Cable Tray – 1/0 AWG and larger
- 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 and Industrial applications where reliability is the major concern, where maximum performance is demanded, and where space is limited

Features:

- UL Type RHH/RHW/USE Rated at 90°C Dry, 75°C Wet
- CSA AWM I A/B Rated at 105°C

- Flexible Class I stranding for ease of installation
- Smooth surface for reduced coefficient of friction for ease of installation
- Excellent moisture resistance
- Excellent resistance to salt water
- Available in colors for ease of phase identification
- Minimum acid gas emissions under combustion
- Meets cold bend test at -40°C
- Meets UL Oil Res. I and II

Compliances:

- UL 44 Standard for Rubber Insulated Wire
- UL 854 Standard for Service Entrance Cable
- UL 1685 Standard for Vertical Tray Fire Propagation and Smoke Release Test for Electrical and Optical Fiber Cables

- UL Listed VW-1
- ICEA S-95-658/ NEMA WC 70
- IEEE 1202 (70,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- Sizes 1/0 AWG and larger are Listed 'FOR CT USE'
- CSA FT4
- CSA Standard C22.2 No. 0.3
- CSA Standard C22.2 No. 210.2
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA acceptable

Packaging:

- Material cut to length and shipped out on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit. Extra charges apply for cuts less than 1000ft., lags, pulling eyes, paralleling, and plexing

Class B Stranding

Cond. (AWG/kcmil) Size	Cond. Strand Class B	Nominal Cond. Diameter		Minimum Avg. Insulation Thickness		Nominal Cable O.D.		Copper Weight lbs/1000ft.	Copper Weight kg/km	Net Weight lbs/1000ft.	Net Weight kg/km
		INCHES	mm	INCHES	mm	INCHES	mm				
6	7/.0612	0.18	4.57	0.060	1.52	0.31	7.87	81	121	116	173
4	7/.0772	0.23	5.84	0.060	1.52	0.36	9.14	129	192	171	254
2	7/.0974	0.28	7.11	0.060	1.52	0.42	10.67	205	305	257	382
1	19/.0664	0.32	8.13	0.080	2.03	0.49	12.45	258	385	331	493
1/0	19/.0745	0.36	9.14	0.080	2.03	0.53	13.46	326	485	406	604
2/0	19/.0837	0.41	10.41	0.080	2.03	0.58	14.73	411	612	495	737
3/0	19/.0940	0.46	11.68	0.080	2.03	0.63	16.00	518	771	612	911
4/0	19/.1055	0.51	12.95	0.080	2.03	0.68	17.27	653	972	757	1126
250	37/.0822	0.56	14.22	0.095	2.41	0.76	19.30	772	1149	905	1347
350	37/.0973	0.66	16.76	0.095	2.41	0.87	22.10	1081	1609	1237	1841
500	37/.1162	0.79	20.07	0.095	2.41	1.00	25.40	1544	2298	1728	2571
750	61/.1109	0.97	24.64	0.110	2.79	1.21	30.73	2316	3447	2572	3827

Class I Stranding

Cond. (AWG/kcmil) Size	Cond. Strand Class I	Nominal Cond. Diameter		Minimum Avg. Insulation Thickness		Nominal Cable O.D.		Copper Weight lbs/1000ft.	Copper Weight kg/km	Net Weight lbs/1000ft.	Net Weight kg/km
		INCHES	mm	INCHES	mm	INCHES	mm				
6	63/24	0.21	5.33	0.060	1.52	0.34	8.64	80	119	120	179
4	105/24	0.26	6.60	0.060	1.52	0.38	9.65	134	199	184	274
2	161/24	0.32	8.13	0.060	1.52	0.45	11.43	205	305	266	396
1	259/24	0.38	9.65	0.080	2.03	0.55	13.97	261	389	356	530
1/0	259/24	0.42	10.67	0.080	2.03	0.59	14.99	329	489	433	644
2/0	329/24	0.47	11.94	0.080	2.03	0.64	16.26	417	621	529	787
3/0	413/24	0.53	13.46	0.080	2.03	0.71	18.03	524	780	654	973
4/0	532/24	0.61	15.49	0.080	2.03	0.78	19.81	682	1014	831	1237
250	608/24	0.65	16.51	0.095	2.41	0.85	21.59	779	1159	946	1408
350	851/24	0.78	19.81	0.095	2.41	1.00	25.40	1095	1630	1301	1936
500	1221/24	0.95	24.13	0.095	2.41	1.16	29.46	1517	225	1821	2710
750	1850/24	1.11	28.19	0.110	2.79	1.36	34.54	2408	3584	2723	4052

Call Customer Service for catalog numbers.

Dimensions and weights are nominal, subject to industry tolerance.

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Form No. INS-0050-0202

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