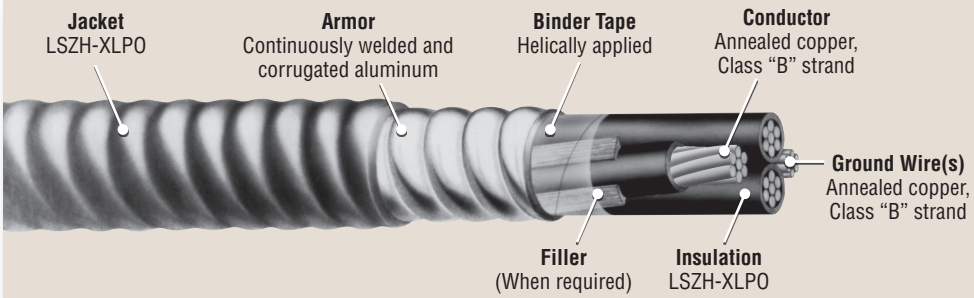
Gardex® LSZH
Armored Power Cable



LSZH XLPO Insulation
Aluminum Armor
LSZH XLPO Jacket
UL Listed
90°C*, 600 Volt
NEC Type MC
(Low Smoke Zero Halogen)
NFPA 130 & 502

Scope

Gardex® LSZH is a totally low smoke, zero halogen cable comprised of both thermoset insulation and jacket material. It provides superior resistance to fire and moisture. It may be installed in wet and dry locations, indoors and outdoors, in metal trays, conduits, ducts, self-supported or in direct burial applications. It is ideal for applications in transit systems and tunnels to perform a variety of functions. Gardex® LSZH cable is a completely self-contained wiring system. It is designed for use in applications where resistance to mechanical and physical abuse is required. Gardex® LSZH is flexible and its impervious armor prevents the entrance of water, gas and corrosive elements into the electrical core.

Features

- Low Smoke Zero Halogen Design
- RoHS compliant insulation and jacket
- Welded armor forms an impervious barrier
- Armor is impact and crush resistant
- Aluminum armor meets UL requirements as equipment grounding conductor
- Self contained conduit wiring system
- Thermoset insulation for enhanced thermal stability
- Superior insulation and jacket moisture resistance
- Superior flame ratardance
- Tin-coated copper conductors for improved terminations and corrosion resistance

Performance Standards

- Insulation in accordance with ICEA and UL standards
- Insulated conductors are UL Listed Type XHHW-2
- Passes IEEE 1202/FT4 vertical tray flame test and ICEA 70,000 BTU/hr vertical tray flame test (T-30-520)
- Single conductors pass vertical flame test Type A as defined in ICEA S-95-658 (6.8.2)
- UL listed Type LS (limited smoke) per UL 1277 and UL 1685
- UL approved 90°C for both wet and dry locations
- Jacket exceeds requirements for UL class XL/90°C and ICEA publication T-33-655, Type II
- UL listed for sunlight resistance
- UL listed as gasoline and oil resistance
- Meets the requirements of NFPA 130 & 502

Construction

Conductor: Annealed, tin-coated copper, class "B" strand (ASTM B-8 & B-33)
Insulation: Flame retardant low Smoke Zero Halogen crosslinked polyolefin
Circuit Identification: Printed numbers per ICEA Method 4. (Alt. colors available upon request)
Fillers: (Where required)
Binder tape: Helically applied polyester
Ground Wire(s): Annealed copper class "B" to comply with NEC requirements
Armor: Continuously welded and corrugated aluminum
Jacket: Reduced wall, black, flame retardant crosslinked low smoke zero halogen polyolefin

*Rated 90°C for normal operation in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company

Gardex® LSZH
Armored Power Cable

Three Conductor Gardex® LSZH Power Cables With Three Ground Wires Suitable for IGBT Drive Applications

Product Code	Size (AWG/ kcmil)	Number of Conductors	Insulation Thickness (Inch)	(mm)	Ground Wires Qty-Size	Core Diameter (Inch)	Armor Thickness (Mils)	Armor Overall Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch)	(mm)	Approximate Net Weight (Lbs/M')
AG03014-500	14	3	.030	.76	3-18	.29	25	.48	50	.58	14.7	170
AG03012-500	12	3	.030	.76	3-16	.33	25	.54	50	.64	16.3	220
AG03010-500	10	3	.030	.76	3-14	.38	25	.58	50	.68	17.3	280
AG03008-500	8	3	.045	1.14	3-14	.52	25	.74	50	.84	21.3	398
AG03006-500	6	3	0.45	1.14	3-12	.60	25	.84	50	.95	24.1	549
AG03004-500	4	3	.045	1.14	3-12	.70	25	.97	50	1.07	27.2	732
AG03002-500	2	3	.045	1.14	3-10	.83	25	1.13	50	1.23	31.2	1052
AG031X0-500	1/0	3	.055	1.40	3-10	1.04	25	1.33	50	1.44	36.6	1512
AG032X0-500	2/0	3	.055	1.40	3-10	1.14	25	1.46	50	1.57	39.9	1813
AG033X0-500	3/0	3	.055	1.40	3-8	1.25	25	1.56	60	1.69	42.9	2280
AG034X0-500	4/0	3	.055	1.40	3-8	1.37	25	1.71	60	1.84	46.7	2743
AG03250-500	250	3	.065	1.65	3-8	1.53	32	1.87	60	2.00	50.8	3258
AG03350-500	350	3	.065	1.65	3-6	1.75	32	2.25	60	2.37	57.2	4424
AG03500-500	500	3	.065	1.65	3-6	2.03	32	2.47	75	2.63	66.8	6056
AG03750-500	750	3	.080	2.03	3-4	2.48	32	3.03	85	3.21	81.5	8873

Four Conductor Gardex® LSZH Power Cables

Product Code	Size (AWG/ kcmil)	Number of Conductors	Insulation Thickness (Inch)	(mm)	Ground Wires Qty-Size	Core Diameter (Inch)	Armor Thickness (Mils)	Armor Overall Diameter (Inch)	Jacket Thickness (Mils)	Nominal Overall Diameter (Inch)	(mm)	Approximate Net Weight (Lbs/M')
AG04014-500	14	4	.030	.76	2-16	.33	25	.54	50	.64	16.3	199
AG04012-500	12	4	.030	.76	3-16	.37	25	.58	50	.68	17.3	256
AG04010-500	10	4	.030	.76	3-14	.43	25	.62	50	.72	18.3	330
AG04008-500	8	4	.045	1.14	2-12	.58	25	.84	50	.95	24.1	488
AG04006-500	6	4	.045	1.14	2-10	.67	25	.92	50	1.02	25.9	667
AG04004-500	4	4	.045	1.14	2-10	.78	25	1.07	50	1.17	29.7	912
AG04002-500	2	4	.045	1.14	2-8	.93	25	1.19	50	1.29	32.8	1309
AG041X0-500	1/0	4	.055	1.40	1-6	1.17	25	1.46	50	1.57	39.9	1902
AG042X0-500	2/0	4	.055	1.40	1-6	1.28	25	1.64	60	1.77	45.0	2340
AG043X0-500	3/0	4	.055	1.40	1-4	1.40	32	1.80	60	1.92	48.8	2966
AG044X0-500	4/0	4	.055	1.40	1-4	1.55	32	1.94	60	2.06	52.3	3558
AG04250-500	250	4	.065	1.65	1-4	1.72	32	2.12	60	2.25	57.2	4153
AG04350-500	350	4	.065	1.65	1-3	1.96	32	2.41	75	2.56	66.8	5657
AG04500-500	500	4	.065	1.65	1-2	2.27	32	2.71	75	2.87	72.9	7780

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RSCC® World Class Engineered Cable

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