



LSZH XLPO Insulation
 Aluminum Armor
 LSZH Jacket
 UL Listed
 90°C*, 600 Volt
 NEC Type MC
 NFPA 130 & 502

Features

- Low Smoke Zero Halogen Design
- RoHS compliant insulation and jacket
- Welded armor forms an impervious barrier
- Armor has superior impact and crush resistance
- 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 retardance
- Tin-coated copper conductors for improved terminations and corrosion resistance

Performance Standards

- Insulation in accordance with ICEA, AREMA, and UL standards
- Insulated conductors are UL Listed Type XHHW-2, Gas and Oil Res II, VW-1**
- UL Listed FT4/IEEE 1202 Vertical Flame test
- UL Listed -ST1 per UL 1569 and UL 1685 (FT4 Method), meeting smoke and flame requirements of NFPA 130 and NFPA 502
- Single conductors pass vertical flame test Type A as defined in ICEA S-95-658 (6.8.2)
- 2 Year water submergence of insulation at continuous 90C and 600V (AREMA 10.3.26)
- UL Listed 90°C for both wet and dry locations
- UL Listed -40C
- UL Listed for sunlight resistance
- UL Listed Type MC and MC-HL (Optional)
- 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: Black, flame retardant low smoke zero halogen polyolefin (Other colors available)

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

** VW-1 for 10 AWG and larger

Scope

Gardex® LSZH is a totally low smoke, zero halogen cable comprised of thermoset insulation designed for NFPA 130 and NFPA 502 applications. 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.

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

18 AWG through 1000 kcmil constructions available in other configurations (7/C, 37/C, STP, TP, traids, etc. and more)
2000V designs available



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company