



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

Firewall® 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. Firewall® 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. Firewall® LSZH is flexible and its impervious armor prevents the entrance of water, gas and corrosive elements into the electrical core.

# Firewall® LSZH Armored Power Cable

## Three Conductor Firewall® 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')
TG03014-020	14	3	.030 .76	3-18	.29	25	.48	50	.58 14.7	170
TG03012-020	12	3	.030 .76	3-16	.33	25	.54	50	.64 16.3	220
TG03010-020	10	3	.030 .76	3-14	.38	25	.58	50	.68 17.3	280
TG03008-020	8	3	.045 1.14	3-14	.52	25	.74	50	.84 21.3	398
TG03006-020	6	3	.045 1.14	3-12	.60	25	.84	50	.95 24.1	549
TG03004-020	4	3	.045 1.14	3-12	.70	25	.97	50	1.07 27.2	732
TG03002-020	2	3	.045 1.14	3-10	.83	25	1.13	50	1.23 31.2	1052
TG031X0-020	1/0	3	.055 1.40	3-10	1.04	25	1.33	50	1.44 36.6	1512
TG032X0-020	2/0	3	.055 1.40	3-10	1.14	25	1.46	50	1.57 39.9	1813
TG033X0-020	3/0	3	.055 1.40	3-8	1.25	25	1.56	60	1.69 42.9	2280
TG034X0-020	4/0	3	.055 1.40	3-8	1.37	25	1.71	60	1.84 46.7	2743
TG03250-020	250	3	.065 1.65	3-8	1.53	32	1.87	60	2.00 50.8	3258
TG03350-020	350	3	.065 1.65	3-6	1.75	32	2.25	60	2.37 57.2	4424
TG03500-020	500	3	.065 1.65	3-6	2.03	32	2.47	75	2.63 66.8	6056
TG03750-020	750	3	.080 2.03	3-4	2.48	32	3.03	85	3.21 81.5	8873

## Four Conductor Firewall® 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')
TG04014-020	14	4	.030 .76	2-16	.33	25	.54	50	.64 16.3	199
TG04012-020	12	4	.030 .76	3-16	.37	25	.58	50	.68 17.3	256
TG04010-020	10	4	.030 .76	3-14	.43	25	.62	50	.72 18.3	330
TG04008-020	8	4	.045 1.14	2-12	.58	25	.84	50	.95 24.1	488
TG04006-020	6	4	.045 1.14	2-10	.67	25	.92	50	1.02 25.9	667
TG04004-020	4	4	.045 1.14	2-10	.78	25	1.07	50	1.17 29.7	912
TG04002-020	2	4	.045 1.14	2-8	.93	25	1.19	50	1.29 32.8	1309
TG041X0-020	1/0	4	.055 1.40	1-6	1.17	25	1.46	50	1.57 39.9	1902
TG042X0-020	2/0	4	.055 1.40	1-6	1.28	25	1.64	60	1.77 45.0	2340
TG043X0-020	3/0	4	.055 1.40	1-4	1.40	32	1.80	60	1.92 48.8	2966
TG044X0-020	4/0	4	.055 1.40	1-4	1.55	32	1.94	60	2.06 52.3	3558
TG04250-020	250	4	.065 1.65	1-4	1.72	32	2.12	60	2.25 57.2	4153
TG04350-020	350	4	.065 1.65	1-3	1.96	32	2.41	75	2.56 66.8	5657
TG04500-020	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, triads, etc.)

2000V designs available



Marmon Electrical  
A Berkshire Hathaway Company