

Multi-Conductor Unshielded
90°C, 600 Volt
NEC Type TC
UL Listed
NFPA 130 & 502

Features

- Low Smoke Zero Halogen Design
- RoHS compliant insulation and jacket
- Thermoset insulation for enhanced thermal stability
- Specially formulated insulation for exceptional long term water resistance
- Superior flame retardance
- Excellent mechanical properties
- Tin-coated copper conductors for improved terminations and corrosion resistance
- Reduced size and weight for increased raceway capacity
- Easy strippability
- Low friction jacket for reduced pulling tension

Scope

Firewall® 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, or in direct burial applications. It is ideal for applications in transit systems and tunnels to perform a variety of control and related functions.

Performance Standards

- Insulation in accordance with ICEA and UL standards
- Insulated conductors are UL Listed Type RFHH-2
- UL listed type TC (UL 1277) in accordance with NEC
- 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)

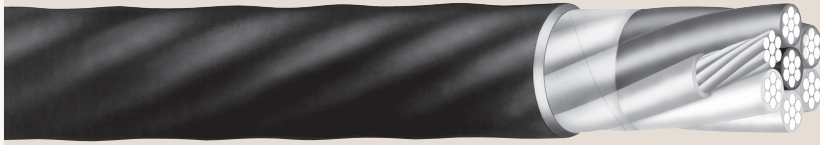
Binder tape: Helically applied polyester

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.

Firewall® LSZH

Type TC Instrumentation Cable



Multi-Conductor Unshielded
 90°C, 600 Volt
 NEC Type TC
 UL Listed
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16 AWG, 7 Strand

Product Code	Number of Conductors	Insulation Thickness (Inch)	Insulation Thickness (mm)	Insulated Conductor Diameter (Inch)	Overall Jacket Thickness (Mils)	Nominal Overall Diameter (Inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
I46-0025	2	.030	0.76	.12	35	0.31	7.87	52
I46-0035	3	.030	0.76	.12	35	0.33	8.38	67
I46-0045	4	.030	0.76	.12	35	0.36	9.16	83
I46-0055	5	.030	0.76	.12	35	0.40	10.16	98
I46-0075	7	.030	0.76	.12	35	0.43	10.92	127
I46-0095	9	.030	0.76	.12	45	0.53	13.46	176
I46-0125	12	.030	0.76	.12	45	0.59	14.99	220
I46-0155	15	.030	0.76	.12	45	0.65	16.51	270
I46-0195	19	.030	0.76	.12	45	0.69	17.53	327
I46-0275	27	.030	0.76	.12	65	0.86	21.84	487
I46-0375	37	.030	0.76	.12	65	0.97	24.64	640

18 AWG, 7 Strand

Product Code	Number of Conductors	Insulation Thickness (Inch)	Insulation Thickness (mm)	Insulated Conductor Diameter (Inch)	Overall Jacket Thickness (Mils)	Nominal Overall Diameter (Inch)	Nominal Overall Diameter (mm)	Approximate Net Weight (Lbs/M')
I57-0025	2	.030	0.76	.11	35	0.29	7.37	42
I57-0035	3	.030	0.76	.11	35	0.31	7.87	53
I57-0045	4	.030	0.76	.11	35	0.33	8.38	65
I57-0055	5	.030	0.76	.11	35	0.37	9.40	76
I57-0075	7	.030	0.76	.11	35	0.40	10.16	98
I57-0095	9	.030	0.76	.11	35	0.46	11.68	127
I57-0125	12	.030	0.76	.11	45	0.54	13.72	168
I57-0155	15	.030	0.76	.11	45	0.60	15.24	206
I57-0195	19	.030	0.76	.11	45	0.63	16.00	248
I57-0275	27	.030	0.76	.11	45	0.75	19.05	340
I57-0375	37	.030	0.76	.11	65	0.89	22.61	485

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Marmon Engineered Wire & Cable LLC
 A Berkshire Hathaway Company