

125°C Low Smoke
Zero Halogen Transit Wire
600 Volt
Spec. DAA1105A

Features

- Wide temperature range -45°C to 125°C*
- Thermoset Insulation
- Superior mechanical properties
- Flexible construction
- Flame retardant
- Excellent fluid/oil resistance
- Moisture and sunlight resistant
- Low Smoke
- Zero Halogen

Performance Standards

- Passes NFPA 130-2020
- Meets requirements of UL 1685 (FT4/IEEE 1202 with smoke measurement)
- Meet the requirements of 49 CFR Part 238 for flame and smoke requirements (ICEA S-19-81)
- Meet the requirements of ASTM E662 in flaming and non-flaming modes
- Meets transit toxicity requirements when tested in accordance with BSS 7239
- Passes UL VW-1 flame test
- Passes 1974 IEEE-383 vertical tray flame test
- RoHS and REACH Compliant
- Satisfies the requirements of BS6853 Vehicle Category 1a

Construction

Conductor: Annealed, Tinned copper per ASTM B33, B172, AAR S-501, and AAR RP-585

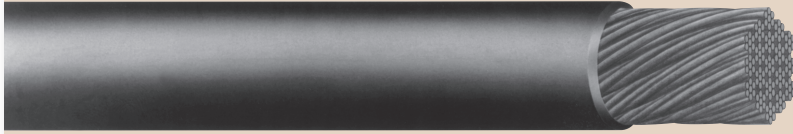
Insulation: Crosslinked low smoke halogen free polymer (colors – as required)

* RSCC rated 125°C, 130°C overload, 250°C short circuit

Scope

Exane[®]-ZH, Low Smoke Zero Halogen transit wire is a tough, highly flame retardant construction ideally suited for use in rugged locomotive and transportation industry applications. It has excellent electrical characteristics combined with superior mechanical, heat, moisture, oil, chemical and abrasion properties. This wire should be considered for applications where flame resistance and low levels of off gassing and toxic fumes are required.

Exane® ZH-1105A Transit Wire



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Product Number	Conductor Size		Insulation Wall (Inch)	Nom. Diameter (Inch)	Approx. Weight (lbs/m')	Approx. Weight (kg/km)			
	(AWG)	Stranding							
ZLXE-18-600V	18	19/30	.96	.030	.76	0.109	2.77	11	16.4
ZLXE-16-600V	16	19/29	1.22	.030	.76	0.116	2.95	13	19.3
ZLXE-14-600V	14	19/27	1.94	.030	.76	0.129	3.28	18	26.8
ZLXE-12-600V	12	19/25	3.08	.030	.76	0.147	3.73	26	38.7
ZLXE-10-600V	10	27/24	5.53	.030	.76	0.178	4.52	45	67.0
ZLXE-8-600V	8	37/24	7.57	.045	1.14	0.232	5.89	63	93.9
ZLXE-6-600V	6	61/24	12.5	.045	1.14	0.284	7.21	103	153.5
ZLXE-5-600V	5	91/24	19	.045	1.14	0.334	8.48	150	223.6
ZLXE-4-600V	4	105/24	21	.045	1.14	0.356	9.04	169	251.9
ZLXE-3-600V	3	125/24	26	.045	1.14	0.381	9.68	199	296.6
ZLXE-2-600V	2	150/24	31	.045	1.14	0.411	10.44	229	347.3
ZLXE-1-600V	1	225/24	46	.055	1.40	0.501	12.73	346	515.8
ZLXE-1/0-600V	1/0	275/24	56	.055	1.40	0.541	13.74	413	615.7
ZLXE-2/0-600V	2/0	325/24	66	.055	1.40	0.556	14.12	460	685.8
ZLXE-3/0-600V	3/0	450/24	92	.055	1.40	0.661	16.79	660	984.0
ZLXE-4/0-600V	4/0	550/24	112	.055	1.40	0.686	17.42	762	1136.0
ZLXE-262-600V	262MCM	650/24	133	.065	1.65	0.765	19.43	900	1341.8
ZLXE-313-600V	313MCM	775/24	159	.065	1.65	0.833	21.16	1064	1586.3
ZLXE-373-600V	373MCM	925/24	189	.065	1.65	0.886	22.50	1261	1880.0
ZLXE-444-600V	444MCM	1100/24	225	.065	1.65	0.950	24.13	1489	2219.9
ZLXE-535-600V	535MCM	1325/24	271	.080	2.03	1.060	26.92	1805	2691.0
ZLXE-646-600V	646MCM	1600/24	327	.080	2.03	1.152	29.26	2145	3198.0

1. The Exane® insulation family has outstanding mechanical and electrical test characteristics. It also has excellent long-term moisture resistance and heat aging characteristics. See the above specification for details.

* These ampacities are based on single conductors in air with an ambient of 40°C and conductor temperature of 125°C.



Marmon Electrical
A Berkshire Hathaway Company