



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 UL VW-1 flame test
- Passes 1974 IEEE-383 vertical tray flame test
- Meets requirements of 49 CFR Part 238 for flame and smoke requirements
- Meets transit toxicity requirements when tested in accordance with BSS 7239
- RoHS 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)	Aprox. Weight (lbs/m ¹)	Aprox. Weight (kg/km)			
	(AWG)	Stranding					(mm ²)	(mm)	
ZLXE-18-600V	18	19/30	.96	.030	.76	0.107	2.72	11	16.4
ZLXE-16-600V	16	19/29	1.22	.030	.76	0.114	2.90	13	19.3
ZLXE-14-600V	14	19/27	1.94	.030	.76	0.127	3.23	18	26.8
ZLXE-12-600V	12	19/25	3.08	.030	.76	0.146	3.71	27	40.5
ZLXE-10-600V	10	27/24	5.53	.030	.76	0.183	4.65	44	65.5
ZLXE-8-600V	8	37/24	7.57	.045	1.14	0.231	5.87	65	96.7
ZLXE-6-600V	6	61/24	12.5	.045	1.14	0.280	7.11	102	151.8
ZLXE-5-600V	5	91/24	19	.045	1.14	0.330	8.38	149	223.5
ZLXE-4-600V	4	105/24	21	.045	1.14	0.350	8.89	171	256.5
ZLXE-3-600V	3	125/24	26	.045	1.14	0.375	9.53	195	290.2
ZLXE-2-600V	2	150/24	31	.045	1.14	0.410	10.41	233	346.7
ZLXE-1-600V	1	225/24	46	.055	1.40	0.495	12.57	343	510.4
ZLXE-1/0-600V	1/0	275/24	56	.055	1.40	0.545	13.84	410	610.1
ZLXE-2/0-600V	2/0	325/24	66	.055	1.40	0.590	15.00	481	715.8
ZLXE-3/0-600V	3/0	450/24	92	.055	1.40	0.660	16.76	653	971.7
ZLXE-4/0-600V	4/0	550/24	112	.055	1.40	0.720	18.29	790	1175.6
ZLXE-262-600V	262MCM	650/24	133	.065	1.65	0.782	19.86	931	1385.4
ZLXE-313-600V	313MCM	775/24	159	.065	1.65	0.850	21.59	1099	1635.4
ZLXE-373-600V	373MCM	925/24	189	.065	1.65	0.900	22.86	1300	1934.5
ZLXE-444-600V	444MCM	1100/24	225	.065	1.65	0.980	24.89	1551	2308.0
ZLXE-535-600V	535MCM	1325/24	271	.080	2.03	1.110	28.19	1934	2878.0
ZLXE-646-600V	646MCM	1600/24	327	.080	2.03	1.215	30.86	2250	3337.5

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 110°C.



Marmon Engineered Wire & Cable LLC
A Berkshire Hathaway Company