



## Features

- Wide temperature range  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}^*$
- Thermoset Insulation
- Superior mechanical properties
- Flexible construction
- Flame retardant
- Excellent fluid/oil resistance
- Moisture and sunlight resistant

## Performance Standards

- AAR S-501
- AAR RP-585
- ICEA S-66-524 (5-95-658)
- Passes UL VW-1 flame test
- Passes IEEE-383 1974 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

## Construction

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

**Insulation:** Crosslinked polyolefin, Exane® (colors — as required)

\*RSCC rated  $125^{\circ}\text{C}$ , maximum  $130^{\circ}\text{C}$  overload,  $250^{\circ}\text{C}$  short circuit

## Scope

Exane®-1069A Diesel Cable is a tough, flame retardant construction ideally suited for rugged, railroad diesel electric locomotive applications. It has a high temperature rating yet will not crack at temperatures down to  $-55^{\circ}\text{C}$ . Exane® Diesel Locomotive Cable has much better resistance to cut-through, crush, and scrape abrasion than rubber, EPR, Neoprene and Hypalon. It is also more flexible and has better overload characteristics than fluoropolymers. Exane® has good moisture and oil resistance, excellent fire resistance, low smoke and acid gas generation characteristics, and resists stress cracking and conduits. RHW-2 walls meet UL requirements and provide enhanced mechanical toughness.

# Exane<sup>®</sup>-1069A

## 125°C\* Locomotive Wire



600 Volt and 2000 Volt  
AAR S-501/RP-585  
(XLPO)  
Spec. DAA1069A

### 600 Volt Class

Product Number	Conductor Size		Insulation Wall (Inch) (mm)	Nom. Diameter		Aprox. Weight			
	(AWG)	Stranding		(mm <sup>2</sup> )	(Inch)	(mm)	(#/m')	(kg/km)	
LXE-18-600V	18	19/30	.96	.030	.76	0.109	2.76	11	16.4
LXE-16-600V	16	19/29	1.22	.030	.76	0.116	2.94	13	19.3
LXE-14-600V	14	37/29	2.40	.030	.76	0.137	3.47	21	31.3
LXE-12-600V	12	37/27	3.77	.030	.76	0.157	3.98	29	43.2
LXE-10-600V	10	27/24	5.53	.030	.76	0.178	4.52	44	65.5

### 2000 Volt Class

Product Number	Conductor Size		Insulation Wall (Inch) (mm)	Nom. Diameter		Aprox. Weight			
	(AWG)	Stranding		(mm <sup>2</sup> )	(Inch)	(mm)	(#/m')	(kg/km)	
LXE-18-2KV	18	19/30	.96	.045	1.14	0.139	3.53	15	22.3
LXE-16-2KV	16	19/29	1.22	.045	1.14	0.144	3.65	17	25.3
LXE-14-2KV	14	37/29	2.40	.045	1.14	0.164	4.16	25	37.2
LXE-12-2KV	12	37/27	3.77	.045	1.14	0.187	4.75	34	50.6
LXE-10-2KV	10	27/24	5.53	.045	1.14	0.208	5.28	51	75.9
LXE-8-2KV	8	37/24	7.57	.055	1.40	0.252	6.40	71	105.7
LXE-5-2KV	5	91/24	19	.055	1.40	0.354	8.99	149	221.7
LXE-3-2KV	3	125/24	26	.055	1.40	0.401	10.18	204	303.6
LXE-1-2KV	1	225/24	46	.065	1.65	0.522	13.25	354	526.8
LXE-2/0-2KV	2/0	325/24	66	.065	1.65	0.578	14.68	494	735.1
LXE-4/0-2KV	4/0	550/24	112	.105	2.67	0.792	20.11	851	1266.4
LXE-313-2KV	313MCM	775/24	159	.105	2.67	0.917	23.29	1131	1683.0
LXE-444-2KV	444MCM	1100/24	225	.105	2.67	1.042	26.46	1607	2391.4
LXE-535-2KV	535MCM	1325/24	271	.120	3.18	1.149	29.18	2000	2976.2
LXE-592-2KV	597MCM	1480/24	303	.125	3.18	1.234	31.34	2200	3273.8

1. The Exane<sup>®</sup> insulation family has outstanding mechanical and electrical, long-term moisture, and heat aging characteristics. See the above specification for details.



Marmon Engineered Wire & Cable LLC  
A Berkshire Hathaway Company