

Exane[®]-1069A
125°C* Locomotive Wire

600 V and 2000 Volt
AAR S-501/RP-585 (XLPO)

Spec. DAA1069A

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°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.

Features

- Wide temperature range -55°C to 125°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)

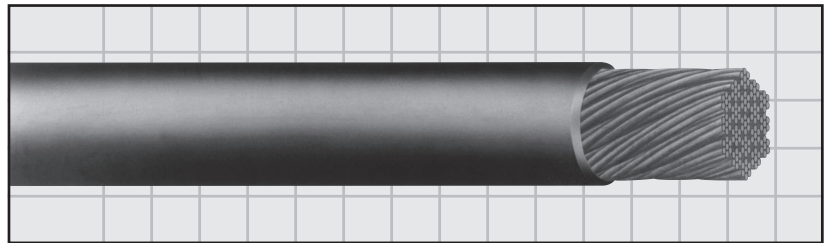
* Rockbestos-Surprenant rated 125°C, maximum 130°C overload, 250°C short circuit



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600 Volt Class

| Product Number | Conductor Size (AWG) | Stranding | (mm ²) | Insulation Wall | | Nom. Diameter | | Aprox. Weight | |
|----------------|----------------------|-----------|--------------------|-----------------|------|---------------|------|---------------|---------|
| | | | | (Inch) | (mm) | (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 (AWG) | Stranding | (mm ²) | Insulation Wall | | Nom. Diameter | | Aprox. Weight | |
|----------------|----------------------|-----------|--------------------|-----------------|------|---------------|-------|---------------|---------|
| | | | | (Inch) | (mm) | (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[®] insulation family has outstanding mechanical and electrical, long-term moisture, and heat aging characteristics. See the above specification for details.



A Marmon Wire & Cable / Berkshire Hathaway Company

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