

### 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
- REACH and RoHS compliant

### Performance Standards

- Meets AAR RP-585/S-501
- Insulation IAW ICEA S-66-524 (S-95-658)
- Passes NFPA 130-2010, 2014, 2017, 2020
- Meet the requirements of UL 1685 (FT4/IEEE 1202 flame with smoke measurement)
- Meet the requirements of 49 CFR Part 238 for flame (ICEA S-19-81) and smoke requirements (ASTM E662)
- Meet the transit toxicity requirements when tested in accordance with BSS 7239
- Passes UL VW-1 flame test
- Passes IEEE-383 1974 vertical tray flame test
- Meet APTA PR-E-RP-009-98 2021 Publication

### Construction

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

**Insulation:** Irradiated Crosslinked polyolefin XLPO Exane<sup>®</sup>, see standard colors in tables

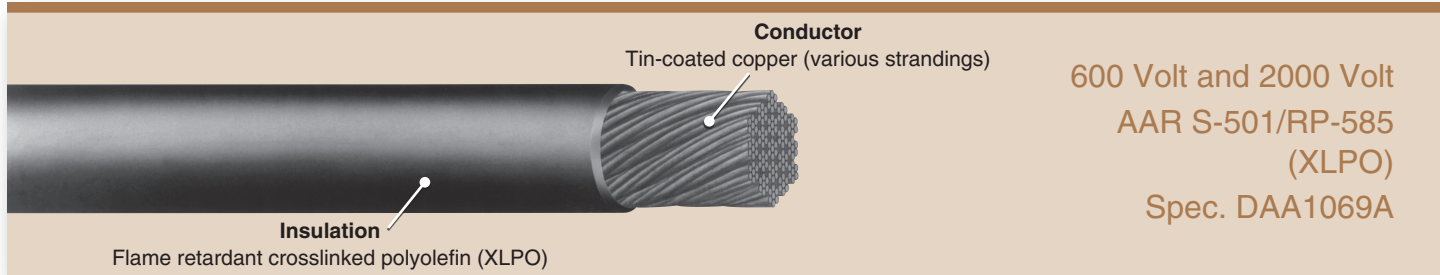
\*Rated  $125^{\circ}\text{C}$ , maximum  $130^{\circ}\text{C}$  overload,  $250^{\circ}\text{C}$  short circuit

### Scope

Exane<sup>®</sup>-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<sup>®</sup> 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<sup>®</sup> 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 Class

| Product Number | Conductor Size (AWG) | Stranding | Max. Cond. Diameter |      | Insulation Wall |      | Nom. Diameter |      | Ampacity* @ 125°C | Approx. Weight (#/m') | (kg/km) | Standard Color |
|----------------|----------------------|-----------|---------------------|------|-----------------|------|---------------|------|-------------------|-----------------------|---------|----------------|
|                |                      |           | (Inch)              | (mm) | (Inch)          | (mm) | (Inch)        | (mm) |                   |                       |         |                |
| LXE-18-600V    | 18                   | 19/30     | 0.049               | 1.24 | .030            | .76  | 0.109         | 2.76 | 19                | 11                    | 16.4    | Yellow         |
| LXE-16-600V    | 16                   | 19/29     | 0.055               | 1.40 | .030            | .76  | 0.116         | 2.94 | 25                | 13                    | 19.3    | Red            |
| LXE-14-600V    | 14                   | 37/29     | 0.076               | 1.93 | .030            | .76  | 0.137         | 3.47 | 42                | 21                    | 31.3    | Dark Gray      |
| LXE-12-600V    | 12                   | 37/27     | 0.099               | 2.51 | .030            | .76  | 0.157         | 3.98 | 55                | 29                    | 43.2    | Light Blue     |
| LXE-10-600V    | 10                   | 27/24     | 0.118               | 3.00 | .030            | .76  | 0.178         | 4.52 | 72                | 44                    | 65.5    | Dark Gray      |
| LXE-8-600V     | 8                    | 37/24     | 0.140               | 3.56 | 0.45            | 1.14 | 0.232         | 5.89 | 97                | 64                    | 95      | Dark Gray      |

### 2000 Volt Class

| Product Number | Conductor Size (AWG) | Stranding | Max. Cond. Diameter |       | Insulation Wall |      | Nom. Diameter |       | Ampacity* @ 125°C | Approx. Weight (#/m') | (kg/km) | Standard Color |
|----------------|----------------------|-----------|---------------------|-------|-----------------|------|---------------|-------|-------------------|-----------------------|---------|----------------|
|                |                      |           | (Inch)              | (mm)  | (Inch)          | (mm) | (Inch)        | (mm)  |                   |                       |         |                |
| LXE-18-2KV     | 18                   | 19/30     | 0.049               | 1.24  | .045            | 1.14 | 0.139         | 3.53  | 19                | 15                    | 22.3    | Dark Gray      |
| LXE-16-2KV     | 16                   | 19/29     | 0.055               | 1.40  | .045            | 1.14 | 0.144         | 3.65  | 25                | 17                    | 25.3    | Orange         |
| LXE-14-2KV     | 14                   | 37/29     | 0.076               | 1.93  | .045            | 1.14 | 0.164         | 4.16  | 42                | 25                    | 37.2    | Light Gray     |
| LXE-12-2KV     | 12                   | 37/27     | 0.099               | 2.51  | .045            | 1.14 | 0.187         | 4.75  | 55                | 34                    | 50.6    | Blue           |
| LXE-10-2KV     | 10                   | 27/24     | 0.118               | 3.00  | .045            | 1.14 | 0.208         | 5.28  | 72                | 51                    | 75.9    | Dark Gray      |
| LXE-8-2KV      | 8                    | 37/24     | 0.140               | 3.56  | .055            | 1.40 | 0.252         | 6.40  | 97                | 71                    | 105.7   | Dark Gray      |
| LXE-6-2KV      | 6                    | 61/24     | 0.190               | 4.83  | .055            | 1.40 | 0.300         | 7.62  | 131               | 108                   | 161.0   | Dark Gray      |
| LXE-5-2KV      | 5                    | 91/24     | 0.244               | 6.20  | .055            | 1.40 | 0.354         | 8.99  | 156               | 149                   | 221.7   | Dark Gray      |
| LXE-4-2KV      | 4                    | 105/24    | 0.264               | 6.71  | .055            | 1.40 | 0.376         | 9.55  | 172               | 177                   | 263.9   | Dark Gray      |
| LXE-3-2KV      | 3                    | 125/24    | 0.288               | 7.31  | .055            | 1.40 | 0.401         | 10.18 | 194               | 204                   | 303.6   | Dark Gray      |
| LXE-2-2KV      | 2                    | 150/24    | 0.325               | 8.26  | .055            | 1.40 | 0.431         | 10.95 | 232               | 240                   | 357.8   | Dark Gray      |
| LXE-1-2KV      | 1                    | 225/24    | 0.390               | 9.91  | .065            | 1.65 | 0.522         | 13.25 | 266               | 354                   | 526.8   | Dark Gray      |
| LXE-1/0-2KV    | 1/0                  | 275/24    | 0.435               | 11.04 | .065            | 1.65 | 0.563         | 14.3  | 309               | 431                   | 642.6   | Dark Gray      |
| LXE-2/0-2KV    | 2/0                  | 325/24    | 0.445               | 11.30 | .065            | 1.65 | 0.578         | 14.68 | 355               | 494                   | 735.1   | Dark Gray      |
| LXE-3/0-2KV    | 3/0                  | 450/24    | 0.555               | 14.10 | .065            | 1.65 | 0.683         | 17.35 | 410               | 673                   | 1003.4  | Dark Gray      |
| LXE-4/0-2KV    | 4/0                  | 550/24    | 0.575               | 14.61 | .105            | 2.67 | 0.792         | 20.11 | 481               | 851                   | 1266.4  | Dark Gray      |
| LXE-313-2KV    | 313MCM               | 775/24    | 0.700               | 17.78 | .105            | 2.67 | 0.917         | 23.29 | 637               | 1131                  | 1683.0  | Dark Gray      |
| LXE-444-2KV    | 444MCM               | 1100/24   | 0.830               | 21.08 | .105            | 2.67 | 1.052         | 26.76 | 792               | 1607                  | 2391.4  | Dark Gray      |
| LXE-535-2KV    | 535MCM               | 1325/24   | 0.905               | 22.99 | .120            | 3.18 | 1.149         | 29.18 | 893               | 2000                  | 2976.2  | Dark Gray      |
| LXE-592-2KV    | 597MCM               | 1480/24   | 0.985               | 25.01 | .125            | 3.18 | 1.234         | 31.34 | 928               | 2200                  | 3273.8  | Dark Gray      |

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.

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