

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

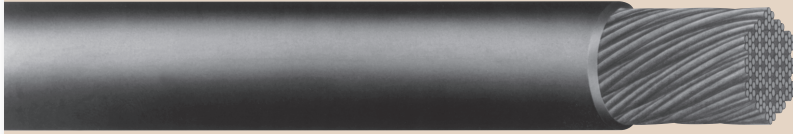
Insulation: Crosslinked low smoke halogen free polymer (colors – as required)

* 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



125°C Low Smoke
Zero Halogen Transit Wire
600 Volt
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| Product Number | Conductor Size | | Insulation Wall (Inch) | Insulation Wall (mm) | Nom. Diameter | | Approx. Weight | | |
|----------------|----------------|-----------|---------------------------|-------------------------|--------------------|--------|----------------|-----------------------|---------|
| | (AWG) | Stranding | | | (mm ²) | (Inch) | (mm) | (lbs/m ¹) | (kg/km) |
| 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.



Marmon Electrical
A Berkshire Hathaway Company