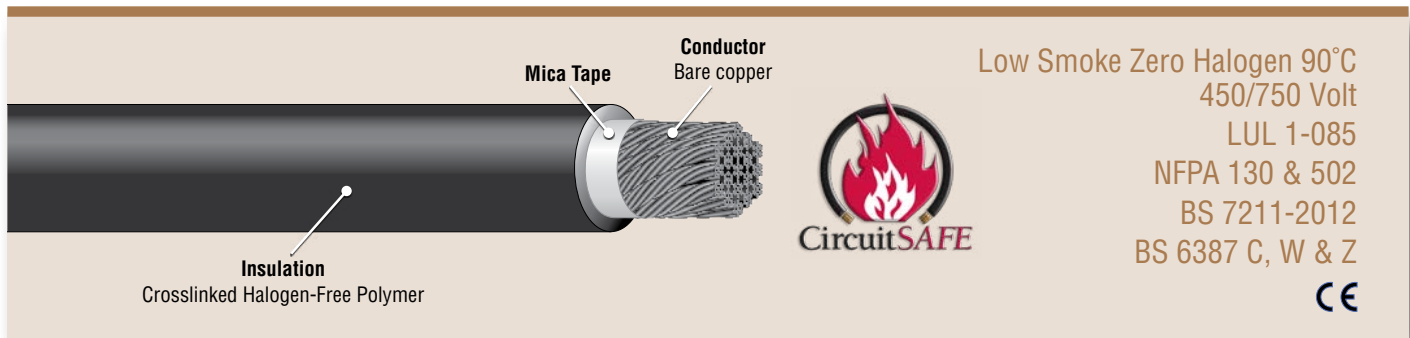


# EXANE®

## Exane® CircuitSAFE Emergency Circuit Cable



### Features

- Circuit Integrity cable
- Superior Flame Retardance
- Excellent wet electrical properties
- Enhanced Mechanical toughness
- Wide temperature range -25°C to 90°C
- Thermoset Insulation
- Oil resistant
- Low Smoke
- Zero Halogen
- Voltage Rating 450/750V
- Sunlight Resistance
- Ampacity follows BS 7671:2008 table 4E1A

### Performance Standards

- Pass BS 6853 Annex B for toxic fumes
- Satisfies performance requirements of LUL 1-085 A3:2011 for flammability, smoke emission and toxic fumes
- Satisfies performance requirements of LUL S1085 A4:2015 for flammability, smoke emission and toxic fumes
- Satisfies performance requirements of BS-7211:2012 for EI5 insulation tape
- Satisfies flame and smoke requirements of NFPA 130 & 502
- Passes requirements of BS 6387 Categories C, W & Z
- Pass IEC 60331-3 120 min resistance to fire and impact
- Pass EN 50200 120 min resistance to fire and mechanical shock
- Pass EN 61034-2 smoke emission
- Pass IEC 60332-3-25 and IEC 60332-3-24
- Satisfies IEC 60754-1 acid gas and IEC 60754-2 pH and conductivity

### Construction

**Conductor:** Bare copper per IEC 60228, Class 2

**Flame Barrier:** Mica tape

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

\*Rated 90°C for normal operation, 130° C for emergency overload conditions and 250°C for short circuit conditions

### Scope

Exane® CircuitSAFE employs a rugged thermoset low smoke halogen free insulation compound. The thermoset insulation provides superior resistance to fire and moisture. It may be installed in wet or dry locations, indoors and outdoors. The cable maintains Circuit Integrity and operates under fire condition.

Exane® CircuitSAFE small, lightweight construction makes it perfect for installation in metal trays, conduits, ducts or in direct burial applications. Exane® CircuitSAFE is an ideal cable for power, control and instrumentation circuits in transit systems and tunnels.



Marmon Engineered Wire & Cable LLC  
A Berkshire Hathaway Company

# Exane® CircuitSAFE Emergency Circuit Cable



Low Smoke Zero Halogen 90°C  
450/750 Volt  
LUL 1-085  
NFPA 130 & 502  
BS 7211-2012  
BS 6387 C, W & Z



| Conductor<br>mm <sup>2</sup> | Conductor<br>Diameter Nom.<br>mm | Radial Wall<br>Thickness<br>mm | Nominal Cable<br>Diameter<br>mm | Conductor<br>Resistance** Ohms/<br>km | Weight<br>kg/km |
|------------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------------|-----------------|
| 0.75*                        | 1.11                             | 0.60                           | 3.02                            | 24.8                                  | 18              |
| 1*                           | 1.28                             | 0.60                           | 3.25                            | 18.2                                  | 21              |
| 1.5                          | 1.55                             | 0.70                           | 3.75                            | 12.2                                  | 30              |
| 2.5                          | 1.96                             | 0.80                           | 4.34                            | 7.56                                  | 42              |
| 4                            | 2.48                             | 0.80                           | 4.87                            | 4.7                                   | 60              |
| 6                            | 3.04                             | 0.80                           | 5.43                            | 3.11                                  | 81              |
| 10                           | 3.92                             | 1.00                           | 6.72                            | 1.84                                  | 131             |
| 16                           | 4.95                             | 1.00                           | 7.92                            | 1.16                                  | 195             |
| 25                           | 6.4                              | 1.20                           | 9.65                            | 0.73                                  | 294             |
| 35                           | 7.34                             | 1.20                           | 11.10                           | 0.53                                  | 396             |
| 50                           | 8.89                             | 1.40                           | 13.08                           | 0.39                                  | 561             |
| 70                           | 10.50                            | 1.40                           | 14.73                           | 0.27                                  | 761`            |
| 95                           | 12.24                            | 1.60                           | 16.89                           | 0.20                                  | 1,027           |
| 120                          | 13.80                            | 1.60                           | 16.42                           | 0.154                                 | 1,245           |
| 150                          | 15.43                            | 1.80                           | 20.47                           | 0.126                                 | 1,555           |
| 185                          | 17.11                            | 2.00                           | 22.59                           | 0.10                                  | 1,913           |
| 240                          | 19.50                            | 2.20                           | 25.40                           | 0.076                                 | 2,467           |
| 300                          | 21.84                            | 2.40                           | 28.19                           | 0.0607                                | 3,061           |
| 400                          | 25.22                            | 2.60                           | 31.92                           | 0.0475                                | 4,044           |

\* .75-1 mm<sup>2</sup> Rated 300/500 Volt per BS 7211:2012

\*\* According to IEC 60228



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