

# Dekoron<sup>®</sup> CIC

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- Dekoron<sup>®</sup> has developed a thermoset silicone - XLPE alloy insulation that has acceptable physical properties. It does not depend on barrier or non-burning materials technology to deliver circuit integrity.
- When the Dekoron<sup>®</sup> insulation is consumed in a fire it leaves behind a non-conductive mechanically stable ash. This allows the circuit to continue to function.

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## The Unique Solution

- This insulation is combined with a zero halogen thermoplastic jacket that prevents halogen poisoning of the insulation.
- Dekoron<sup>®</sup> CIC delivers fire protection without sacrificing normal cable constructions, dimensions, handling, access, or ease of installation.

# Standards for CIC

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- IEEE 383 70,000 BTU/Hr flame Dekoron<sup>®</sup> specifies 60 minute life with minimal propagation.
- IEC 60331 Cable maintains circuit integrity for 3 hours at 750° C. Cable has also passed 1 hour at 1000° C and 15 minutes at 2012° F (1100° C).

# Standards for CIC

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- BS 6387 S, W, Z Cable maintains circuit integrity for 20 minutes at 950° C and is then subjected to mechanical shock and water spray (sprinkler) with electrical integrity maintained.

# UL 1709

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- Rapid Rise Fire Tests of Protection Materials for Structural Steel

2000° F within 5 Minutes

65,000 Btu/ft<sup>2</sup>-hour

Closed Furnace

- Hydrocarbon Pool Fire

# Circuit Integrity Cable

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## Construction Options

- 1-100 pairs/triads/conductors, 10-20 AWG
- Shielded pairs and triads, Control Cable  
Thermocouple
- Armors including SWA, Interlocked Steel and  
Aluminum, Dekabon<sup>®</sup> chemical barrier
- 10,000 ft lengths