CAT HEAT

CATERNARY WIRE HEATING SYSTEM

PRODUCT OVERVIEW

nVent RAYCHEM overhead caternary wire de-icing system
nVent RAYCHEM (CAT Heat) is the state-of-the-art solution to
de-ice the Overhead Contact System (OCS). Designed to operate
at all standard OCS voltages, CAT Heat and its Telemetry and
Controls are installed quickly and easily in virtually all conditions.

IEEE specified caternary heating system is vastly superior to the
mechanical methods of ice removal traditionally in use. With
attractive acquisition and installation costs and a short ROI, the
RAYCHEM CAT Heat system is the most viable choice available
for OCS de-icing to ensure reliable, safe operation of the OCS
and revenue service vehicles during severe winter operations.

RAYCHEM CAT Heat system is designed for various sizes
of English and metric contact/trolley wire for inner-city rail,
commuter rail, light rail, streetcars, and electric trolley bus
transit systems.

RAYCHEM CAT Heat system is a constant wattage series
heater with a high temperature fluoropolymer jacket. The heater
has a triangular cross section for faster and easier installation
and comes with thermally conductive silicone outer jacket for
efficient heat transfer to the contact wire. The Phos-Bronze
mounting clips ensure that the heater attachment is secure in all
service conditions. Hard wired or RF controllers are available for
reliable, efficient operation of the system.

SPECIFICATIONS (NOMINAL)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Power Output</td>
<td>10 W/ft (32 W/m)</td>
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<tr>
<td>Voltage</td>
<td>600, 750, 1500, 3000 VDC</td>
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<tr>
<td>Circuit Lengths</td>
<td>250 - 3000 ft (75 - 900 m)</td>
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<td>Maximum Intermittent Exposure Temperature</td>
<td>200ºC (400ºF)</td>
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Attachment Clip

CAT Heat Cable
**BENEFITS OF CAT HEAT**

- Ice cutters or mechanical means of ice removal are no longer required
- Heat is transferred quickly into the contact wire for maximum de-icing in the shortest time
- Easy installation – low craft sensitivity
- CAT Heat cables stay in place and will not interfere with vehicle operations
- Controls provide reliable, efficient and low-cost operation

**APPROVALS**

The CAT Heat cables meet all applicable requirements of IEEE 515 and IEEE 515.1 standards.

**PRODUCT ORDERING INFORMATION**

The CAT Heat cables and controllers are made to order for a given application. The cables are offered as a part of an integrated system with optimized energy efficient design for the given operating conditions. The system includes heater terminations, attachment clips, and telemetry and controls. For additional information contact your Thermal representative or call (800) 545-6258.