CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1098814 **Master Contract:** 161241 (LR 33381C)

Project: 1275487 **Date Issued:** May 7, 2002

Issued to: **Tyco Thermal Controls**
300 Constitution Drive
M/S R51/1A
Menlo Park, CA 94025 USA
Attention: Mr. Wayne Williams

The products listed below are eligible to bear the CSA Mark shown

Issued by: Todd Hamden

Authorized by: Nick Alfano
Operations Manager

PRODUCTS

CLASS 2878 01 - HEATERS - Cable and Cable Sets - For Hazardous Locations

Class I, Div I and Div 2, Grps A, B, C and D; Class II, Div 1and 2, Grps E, F, and G;
Parallel heating cable sets, Variable Power Limiting Heat Tracing "VPL", using PFA insulating and jacketing material, rated 250C, 120V - 277V (20VPL2-CT rated max 240V), suitable for 3A, 3B, 3C, 5A and 5B designations (Optional Jacket). Connection kits as follows:

DIV I Kits
"VPL-PT-D1"- Power Termination Kit
"VPL-TC-D1"- End
HAK-C-100 Connection Kit
"VPL-SP-D1" - Splice
"VPL-TSP-D1" - Tee Splice

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DIV 2 Kits
"VPL-PTC"- Combination Power and end seal "VPL-TC" - End
"VPL-PT" and "VPL-CS"- Power Connection "VPL-TSP" - Tee-Splice
"VPL-SP" and "VPL-SK" - In-Line Splice "VPL-CSP- Power and End Seal

JBS-100-A and JBM-100-A Power Connections, JBS-100-L-A and JBM-100-L-A Power Connections with Light Module, T-100 Splice/Tee Connection, JS-100-A Power Connection Transition Kit, E-100-A End Seal, E-100-L/-LR Lighted End Seals, C75-100-A Gland Kit, and CS-100 Core Sealer.

Notes
1. Installation instruction sheet provided with each cable set assembly.
2. The overall hazardous locations designation is determined by the hazardous locations designation of the accessory with the lowest ratings. (e.g. box and/or sealing fitting).

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2	No.130.1-M90	-	Heat-tracing Cable Systems for Use in Industrial Locations
CAN/CSA-C22.2 Establishments	No.130.2-93	-	Heat Cable Systems for Use in Other Than Industrial
CSA Std C22.2	No.138-M1989	-	Heat Tracing Cable and Cable Sets for Use in Hazardous Locations
ANSI/IEEE	515	-	IEEE Recommended Practice for the Testing, Design, Resistance Heat Tracing for Industrial Applications
IEEE Std.	515-1997	-	IEEE Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Industrial Applications

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Supplement to Certificate of Compliance

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Product Certification History

Project	Date	Description
1275487	May 7, 2002	Covers the addition of 277V as maximum voltage for 5, 10, and 15VPL2-CT heating cables; certification of Redwood City facility to manufacture VPL-CT; and revisions to VPL print drawing and component labels.
1111192	August 16, 2000	Updated VPL-CT construction drawing (Fig. 1), addition of outer jacket description and alternate jacket material PFA 450.
1098814	June 12, 2000	Addition of Raychem components for use with VPL heating cables.
-100	May 27, 1998	Covers the addition of "optional" fiberglass braid 50% coverage (ref: was previously manditory).
-94	Feb 20, 1997	Original Certification.