CERTIFICATE OF CONFORMITY

FM Approvals

1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** **FM24CA0044X**
3. **Equipment:**
   (Type Reference and Name) **PSB, MSB, HSB Series of Self-Regulating Heat Trace Cable Systems, Type 27-1S*S-**** ****
4. **Name of Listing Company:** **BARTEC GmbH**
5. **Address of Listing Company:** **Max-Eyth-Strasse 16, D-97980 Bad Mergentheim, Germany**
6. The examination and test results are recorded in confidential report number:

   PR465574 dated 2 December 2024

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

   CSA C22.2 No. 0.4:2017 (R2022), CSA C22.2 No. 0.5:2016 (R2020), CSA C22.2 No. 94.2:2020, CSA C22.2 No. 130:R2021, CSA C22.2 No. 213:2022, CSA C22.2 No. 60079-0:2019 (R2024), CSA C22.2 No. 60079-7:2021, CSA C22.2 No. 60079-30-1:2017 (R2022), CSA C22.2 No. 60079-31:2015, CSA C22.2 No. 60529:R2021

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Equipment Ratings:

    See ANNEX

11. The marking of the equipment shall include:

    See ANNEX

12. **Description of Equipment:**

Certificate issued by:

J.E. Marquedant

J.E. Marquedant
VP, Manager - Electrical Systems

2 December 2024

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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SCC Accredited CB-P/S OCPS Accredité CCN

SCHEDULE

Canadian Certificate of Conformity No: FM24CA0044X

Bartec PSB, MSB, HSB family of self-regulating heating cable systems provide solutions for industrial freeze protection and process temperature maintenance applications. The PSB, MSB, HSB self-regulating heating cable systems have the following attributes.

Trace heater type	PSB	MSB	HSB
Maximum ambient temperature	+55°C	+55°C	+55°C
Minimum ambient temperature	-55°C	-55°C	-55°C
Max Continuous Operating Temperature (energized)	+65°C	+110°C	+120°C
Max Continuous Exposure Temperature (de-energized)	+85°C	+130°C	+180°C
Minimum Start Up Temperature	-55°C	-60°C	-60°C
Minimum installation temperature	-55°C	-60°C	-60°C
Minimum bending radius	25mm (1 inch) @ -55°C	25mm (1 inch) @ -60°C	25mm (1 inch) @ -60°C 10 mm @ -10°C
Ingress Protection	IP66	IP66	IP66
Environmental rating	Type 4X	Type 4X	Type 4X

Electrical Data:
All the PSB, MSB, HSB Series Heat Trace Cables have a minimum braid density of 70%. The nominal voltage ratings are 120 VAC, 240 Vac / 277 Vac maximum. Maximum rating of over current protection, 32 Amperes.

The PSB, MSB, HSB Series Heat Trace Cables and connection kits are in the field fabricated and installed. The PSB, MSB, HSB Series Heat Trace Cables can be used with the following connection kits:

PBS-200-A, PBM-200-A connection kits, ELS-200 protection kit (along with Silicone end seal ES1) and sole Silicone End seal ES1. Installation material of the above mentioned kits is compiled in the following kits CAK-SRS, CAK-M25, CAK-M32 and CAK-E*. All kits have an ingress protection rating of IP66 and an environmental rating of Type 4X.

See ANNEX

Model Code:
27-1S3S-abc*/**** PSB Self Regulating trace heating system

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a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 25, 33

27-1S4S-abc*/**** MSB Self Regulating trace heating system
a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 30, 45, 60

27-1S5S-abc*/**** HSB Self Regulating trace heating system
a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 30, 45, 60

13. **Specific Conditions of Use:**

See ANNEX

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
2 December 2024	Original Issue.

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ANNEX

PSB Series of Self-Regulating Heat Trace Cables

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T6...T5, Class II, Division 2, Groups F, G; T6...T5, Class III, and for Ex 60079-30-1 IIC T6...T5 Gb, and Ex 60079-30-1 IIIC T80°C...T95°C Db

Markings:

Class I, Division 2, Groups A, B, C and D T6...T5;
Class II, Division 2, Groups F and G T6...T5;
Class III
Ex 60079-30-1 IIC T6...T5 Gb
Ex 60079-30-1 IIIC T80°C...T95°C Db

Description of Equipment:

Bartec PSB family of self-regulating heating cables provide solutions for industrial freeze protection and process temperature maintenance applications. The PSB self-regulating heating cables have the following attributes.

PSB Series Self-Regulating Heat Trace cables
Max Continuous Operating Temperature (energized): +65°C
Max Continuous Exposure Temperature (de-energized): +85°C
Minimum Start Up Temperature: -55°C
Minimum installation temperature: -55°C
Minimum Bend Radius = 25mm (1 inch)

Electrical Data:
All the PSB Heat Trace Cables have a minimum braid density of 70%. The nominal voltage ratings are 120 VAC, 240 Vac / 277 Vac maximum. Maximum rating of over current protection, 32 Amperes.

The PSB Series cables can be used with the following connection kits:
PBS-200-A and PBM-200-A connection kits with ELS-200 stand, along with Silicone End seal, ES1 Integral Component. These kits when used with the PSB series cables have an ingress protection rating of IP66 and an environmental rating of Type 4X.

The ambient temperature range of the kits: -55°C ≤ Ta ≤ +55°C

Model Code:
07-5853-abc*/**** PSB Self Regulating Heating Cable
a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 25, 33

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Specific Conditions of Use:

1. Bartec PSB Series Heating Cables must be terminated at both ends with Bartec PBS-200-A, PBM-200-A, ELS-200 and/or ES1.
2. The end-user shall mount the equipment per Bartec instructions at all times.

MSB Series of Self-Regulating Heat Trace Cables

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T6...T3A, Class II, Division 2, Groups F, G; T6...T3A, Class III, and for Ex 60079-30-1 IIC T6...T3 Gb, and Ex 60079-30-1 IIIC T80°C...T170°C Db

Markings:

Class I, Division 2, Groups A, B, C and D T6...T3A;
Class II, Division 2, Groups F and G T6...T3A;
Class III
Ex 60079-30-1 IIC T6...T3 Gb
Ex 60079-30-1 IIIC T80°C...T170°C Db

Description of Equipment:

Bartec MSB family of self-regulating heating cables provide solutions for industrial freeze protection and process temperature maintenance applications. The MSB self-regulating heating cables have the following attributes.

MSB Series Self-Regulating Heat Trace cables
Max Continuous Operating Temperature (energized): +110°C
Max Continuous Exposure Temperature (de-energized): +130°C
Minimum Start Up Temperature: -60°C
Minimum installation temperature: -60°C
Minimum Bend Radius = 25mm (1 inch)

Electrical Data:
All the MSB Heat Trace Cables have a minimum braid density of 70%. The voltage ratings are 120 VAC, 240 Vac / 277 Vac maximum. Maximum rating of over current protection, 32 Amperes.

The MSB Series cables can be used with the following connection kits:
PBS-200-A, PBM-200-A connection kits, ELS-200 protection kit (along with Silicone end seal ES1) and sole Silicone End seal ES1. These kits when used with the MSB series cables have an ingress protection rating of IP66 and an environmental rating of Type 4X.

The ambient temperature range of the kits: -55°C ≤ Ta ≤ +55°C

Model Code:

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07-5854-abc*/**** MSB Self Regulating Heating Cable
a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 30, 45, 60

Specific Conditions of Use:

1. Bartec MSB Series Heating Cables must be terminated at both ends with Bartec PBS-200-A, PBM-200-A, ELS-200 and/or ES1.
2. The end-user shall mount the equipment per Bartec instructions at all times.

HSB Series of Self-Regulating Heat Trace Cables

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T6...T3A, Class II, Division 2, Groups F, G; T6...T3A, Class III, and for Ex 60079-30-1 IIC T6...T3 Gb, and Ex 60079-30-1 IIIC T80°C...T170°C Db

Markings:

Class I, Division 2, Groups A, B, C and D T6...T3A;
Class II, Division 2, Groups F and G T6...T3A;
Class III
Ex 60079-30-1 IIC T6...T3 Gb
Ex 60079-30-1 IIIC T80°C...T170°C Db

Description of Equipment:

Bartec HSB family of self-regulating heating cables provide solutions for industrial freeze protection and process temperature maintenance applications. The HSB self-regulating heating cables have the following attributes.

HSB Series Self-Regulating Heat Trace cables
Max Continuous Operating Temperature (energized): +120°C
Max Continuous Exposure Temperature (de-energized): +180°C
Minimum Start Up Temperature: -60°C
Minimum installation temperature: -60°C
Minimum Bend Radius = 25mm (1 inch) @ -60°C; 10 mm @ -10°C

Electrical Data:
All the HSB Heat Trace Cables have a minimum braid density of 70%. The voltage ratings are 120 VAC, 240 Vac / 277 Vac maximum. Maximum rating of over current protection, 32 Amperes.

The HSB Series cables can be used with the following connection kits:
PBS-200-A, PBM-200-A connection kits, ELS-200 protection kit (along with Silicone end seal ES1) and sole Silicone End seal ES1. These kits when used with the HSB series cables have an ingress protection rating of IP66 and an environmental rating of Type 4X.

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The ambient temperature range of the kits: -55°C ≤ Ta ≤ +55°C

Model Code:
07-5855-abc*/**** HSB Self Regulating Heating Cable
a = Rated voltage: 1, 7
bc = Rated power output at 10°C (W/m): 10, 15, 30, 45, 60

Specific Conditions of Use:

1. Bartec HSB Series Heating Cables must be terminated at both ends with Bartec PBS-200-A, PBM-200-A, ELS-200 and / or ES1.
2. The end-user shall mount the equipment per Bartec instructions at all times.

PBS-200-A Single power entry junction box kit

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T6...T4A, Class II, Division 2, Groups F, G; T6...T4A, Class III, and for Ex eb IIC T6...110°C (T4) Gb, and Ex tb IIIC T80°C...T110°C Db, Ta = -55°C to +55°C, IP66, Type 4X

Markings:

Class I, Division 2, Groups A, B, C and D T6...T4A;
Class II, Division 2, Groups F and G T6...T4A;
Class III
Ex eb IIC T6...110°C (T4) Gb
Ex tb IIIC T80°C...T110°C Db
Ta = -55°C to +55°C, IP66, Type 4X

Description of Equipment:

Bartec PBS-200-A Single power entry junction box kit provides for above the insulation connection for Bartec PSB, MSB, HSB Heat Trace Cables for industrial freeze protection and process temperature maintenance applications. Bartec PBS-200-A* single power entry junction box kit suits for power termination, splice or end termination. The PBS-200-A Single power entry junction box kit is available with 3/4 inch entry (PBS-200-A) or 1 inch entry (PBS-200-A10 / A16). The PBS-200-A Single power entry junction box kit have the following attributes.

PBS-200-A Single Power Entry Junction Box Kit
Ambient temperature range: -55°C to +55°C
Maximum pipe temperature (Pedestal / Stand): +240°C
Maximum withstand temperature end seal ES1: +200°C
Terminals: Spring Clamp Type

Electrical Data:
110 Vac...120 VAC and 208 Vac...277 Vac. Rated power conductor size: 10 AWG (6 mm^2); [8AWG (10 mm^2) for PBS-200-A10, 6AWG (16 mm^2) for PBS-200-A16].

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The PBS-200-A connection kits with PS-120-2 stand have an ingress protection rating of IP66 and an environmental rating of Type 4X.

The ambient temperature range is -55°C ≤ Ta ≤ +55°C.

Model Code:
PBS-200-a
a = Rated power conductor size: -A 10AWG (6 mm^2); -A10 8AWG (10 mm^2); -A16 6AWG (16 mm^2)

Specific Conditions of Use:

1. Bartec PBS-200-A with PS-120-2 stand shall only be used with Bartec PSB, MSB, HSB trace heaters.
2. The end-user shall mount the equipment per Bartec instructions at all times.

PBM-200-A Multiple power entry junction box kit

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T6...T4A, Class II, Division 2, Groups F, G; T6...T4A, Class III, and for Ex eb IIC T6...110°C (T4) Gb, and Ex tb IIIC T80°C...T110°C Db, Ta = -55°C to +55°C, IP66, Type 4X

Markings:

Class I, Division 2, Groups A, B, C and D T6...T4A;
Class II, Division 2, Groups F and G T6...T4A;
Class III
Ex eb IIC T6...110°C (T4) Gb
Ex tb IIIC T80°C...T110°C Db
Ta = -55°C to +55°C, IP66, Type 4X

Description of Equipment:

Bartec PBM-200-A Multiple Power Entry Junction Box Kit provides for above the insulation connection for Bartec PSB, MSB, HSB Heat Trace Cables for industrial freeze protection and process temperature maintenance applications. Bartec PBM-200-A* multiple power entry junction box kit suits for power termination or splice. The PBM-200-A Multiple Power Entry Junction Box Kit is available with 3/4 inch entry (PBM-200-A) or 1 inch entry (PBM-200-A10 / A16). The PBM-200-A Multiple Power Entry Junction Box Kits have the following attributes.

PBM-200-A Multiple Power Entry Junction Box Kit
Ambient temperature range: -55°C to +55°C
Maximum pipe temperature (Pedestal / Stand): +240°C
Maximum withstand temperature end seal ES1: +200°C
Terminals: Spring Clamp Type

Electrical Data:

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110 Vac...120 VAC and 208 Vac...277 Vac. Rated power conductor size: 10 AWG (6 mm^2); [8AWG (10 mm^2) for PBM-200-A10, 6AWG (16 mm^2) for PBM-200-A16].

The PBM-200-A connection kits with PS-120-3 stand have an ingress protection rating of IP66 and an environmental rating of Type 4X.

The ambient temperature range is -55°C ≤ Ta ≤ +55°C.

Model Code:
PBM-200-a
a = Rated power conductor size: -A 10AWG (6 mm^2); -A10 8AWG (10 mm^2); -A16 6AWG (16 mm^2)

Specific Conditions of Use:

1. Bartec PBM-200-A with PS-120-3 stand shall only be used with Bartec PSB, MSB, HSB trace heaters.
2. The end-user shall mount the equipment per Bartec instructions at all times.

ELS-200 Environmental protection kit

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T*, Class II, Division 2, Groups F, G; T*, Class III, and for Ex 60079-30-1 IIC T* Gb, and Ex 60079-30-1 IIIC T*°C Db, Ta = -55°C to +55°C, IP66, Type 4X

Markings:

Class I, Division 2, Groups A, B, C, and D T*;
Class II, Division 2, Groups F, and G T*;
Class III
Ex 60079-30-1 IIC T* Gb
Ex 60079-30-1 IIIC T*°C Db
Ta = -55°C to +55°C, IP66, Type 4X
* Refer to Specific Conditions of Use

Description of Equipment:

Bartec ELS-200 Environmental protection kit provides for above the insulation end termination for Bartec PSB, MSB, HSB Heat Trace Cables for industrial freeze protection and process temperature maintenance applications. The ELS-200 Environmental protection kit has the following attributes.

ELS-200 Environmental protection kit
Ambient temperature range: -55°C to +55°C
Minimum installation temperature: -60°C
Maximum pipe temperature (Pedestal / Stand): +240°C
Maximum withstand temperature end seal ES1: +200°C

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Electrical Data:
110 Vac...120 VAC and 208 Vac...277 Vac. Bartec PSB, MSB, HSB Heat Trace Cables.

The ELS-200 Environmental protection kit with PS-120-2 stand have an ingress protection rating of IP66 and an environmental rating of Type 4X.

The ambient temperature range is -55°C ≤ Ta ≤ +55°C.

Model Code:
ELS-200

Specific Conditions of Use:

1. Bartec ELS-200 Environmental protection kit with PS-120-2 stand shall only be used with Bartec PSB, MSB, HSB trace heaters.
2. The end-user shall mount the equipment per Bartec instructions at all times.
3. Temperature class/maximum surface temperature of ELS-200 Environmental protection kit is the temperature class/maximum surface temperature of the electrical heat tracing cable used.

CAK-SRS, CAK-M25, CAK-M32 Cold Applied Kits

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T*, Class II, Division 2, Groups F, G; T*, Class III, and for Ex eb IIC T* Gb, and Ex tb IIIC T*°C Db, Ta = -55°C to +55°C, IP66, Type 4X

Markings:

Class I, Division 2, Groups A, B, C, and D T*;
Class II, Division 2, Groups F, and G T*;
Class III
Ex eb IIC T* Gb
Ex tb IIIC T*°C Db
Ta = -55°C to +55°C, IP66, Type 4X
* Refer to Specific Conditions of Use

Description of Equipment:

Bartec CAK-SRS, CAK-M25, CAK-M32 kits are Cold Applied Kits which provide necessary parts for above and below the insulation connection and termination for Bartec PSB, MSB, HSB Heat Trace Cables for industrial freeze protection and process temperature maintenance applications. The CAK-SRS, CAK-M25, CAK-M32 kits are as follows:

CAK-SRS kit

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The CAK-SRS kit is a connection and end termination kit with pedestal entry grommet. These CAK-SRS kits come with the following parts:
Silicone End Seal ES1 (n), Silicone Tubing SP1 (n), Green/yellow tube (n), Wire end ferrule (0 or n), Silicone glue (n), Grommet for PS-120* (n). Where n is the quantity number from 1 and up.

CAK-M25 kit
The CAK-M25 kit is a connection and end termination kit for use with the PBS and PBM connection boxes. These CAK-M25 kits come with the following parts:
Silicone End Seal ES1 (n), Silicone Tubing SP1 (n), Green/yellow tube (n), Wire end ferrule (0 or n), Silicone glue (n), Blind plug M25. Where n is the quantity number from 1 and up.

CAK-M32 kit
The CAK-M32 kit is a connection and end termination kit for use with the PBS and PBM connection boxes. These CAK-M32 kits come with the following parts:
Silicone End Seal ES1 (n), Silicone Tubing SP1 (n), Green/yellow tube (n), Wire end ferrule (0 or n), Silicone glue (n), Blind plug M32. Where n is the quantity number from 1 and up.

The CAK-SRS, CAK-M25, CAK-M32 kits have the following attributes:
Ambient temperature range: -55°C to +55°C
Minimum installation temperature: -60°C
Maximum pipe temperature (Pedestal / Stand): +240°C
Maximum withstand temperature end seal ES1: +200°C

Electrical Data:
110 Vac...120 VAC and 208 Vac...277 Vac. Bartec PSB, MSB, HSB Heat Trace Cables.

The CAK-SRS, CAK-M25, CAK-M32 kits have an ingress protection rating of IP66 and an environmental rating of Type 4X.

Model Codes:
CAK-SRS, CAK-M25, CAK-M32

Specific Conditions of Use:

1. Bartec CAK-SRS, CAK-M25, CAK-M32 Cold Applied Kits shall only be used with Bartec PSB, MSB, HSB trace heaters.
2. The end-user shall mount the equipment per Bartec instructions at all times.
3. Temperature class/maximum surface temperature of CAK-SRS, CAK-M25, CAK-M32 kit is the temperature class/maximum surface temperature of the electrical heat tracing cable used.

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CAK-E* Cold Applied Kits

Equipment Ratings:

Class I, Division 2, Groups A, B, C, D; T*, Class II, Division 2, Groups F, G; T*, Class III, and for Ex 60079-30-1 IIC T* Gb, and Ex 60079-30-1 IIIC T*°C Db, Ta = -55°C to +55°C, IP66, Type 4X

Markings:

Class I, Division 2, Groups A, B, C, and D T*;
Class II, Division 2, Groups F, and G T*;
Class III
Ex 60079-30-1 IIC T* Gb
Ex 60079-30-1 IIIC T*°C Db
Ta = -55°C to +55°C, IP66, Type 4X
* Refer to Specific Conditions of Use

Description of Equipment:

Bartec CAK-E* kits are Cold Applied Kits which provide necessary part(s) for above and below the insulation connection and termination for Bartec PSB, MSB, HSB Heat Trace Cables for industrial freeze protection and process temperature maintenance applications. The CAK-E* kits are as follows:

CAK-E* kit
The CAK-E* kit is a silicone end seal termination kit for use with the cables and connection boxes. These CAK-E* kits come with the following parts:
Silicone End Seal ES1 (n), Silicone glue (n). Where n is the quantity number from 1 and up.

The CAK-E* kits have the following attributes:
Ambient temperature range: -55°C to +55°C
Minimum installation temperature: -60°C
Maximum pipe temperature (Pedestal / Stand): +240°C
Maximum withstand temperature end seal ES1: +200°C

Electrical Data:
110 Vac...120 VAC and 208 Vac...277 Vac. Bartec PSB, MSB, HSB Heat Trace Cables.

The CAK-E* kits have an ingress protection rating of IP66 and an environmental rating of Type 4X.

Model Codes:
CAK-E*, where '*' is any quantity number

Specific Conditions of Use:

1. Bartec CAK-E* Cold Applied Kits shall only be used with Bartec PSB, MSB, HSB trace heaters.
2. The end-user shall mount the equipment per Bartec instructions at all times.

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3. Temperature class/maximum surface temperature of CAK-E* kit is the temperature class/maximum surface temperature of the electrical heat tracing cable used.

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