

CERTIFICATE OF CONFORMITY

FM Approvals

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: **FM25US0328X**

3. Equipment:
(Type Reference and Name) **LBabcde/fg Line Bushing**

4. Name of Listing Company: **Quintex GmbH**

5. Address of Listing Company:
**i_Park Tauberfranken 13, Lauda Konigshofen
D97922, Germany**

6. The examination and test results are recorded in confidential report number:

3039411 dated 4th November 2010

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

FM 3600:2022, FM 3611:2004, FM 3615:2022, FM 3810:2005

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:

For use as intercompartment / feed-through in explosionproof enclosures

11. The marking of the equipment shall include:

Refer to Model Code

12. Description of Equipment:

General –

The LB Series Line Bushings are used to provide electrical connections through compartment walls in explosionproof housing. The LB Series Line Bushings consist of a sealing plate, epoxy resin, stranded

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

20 January 2026

Date

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

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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conductors, a cylindrical or threaded sleeve / housing and a wire leading guide disk.

Construction –

The LB Series Line Bushing sleeve is constructed of nickel-plated brass or stainless steel and can either be threaded (metric or NPT) or have a smooth cylindrical flamepath. Threaded sleeve sizes range from M10x1 to M42x1.5 sized. Cylindrical sleeve sizes range from 10 mm to 40 mm in diameter. The LB Series line bushing can be supplied with up to 50 conductors depending on bushing size and wire sizes. The cross-sectional area of the conductors range from 0.25 mm² to 95 mm². The conductors are sealed in the bushing with epoxy resin cement.

Ratings –

The LB Series Line Bushings rated insulation voltages are 440, 690, 1000, 3000 and 6000 Volts. Operating voltages for the line bushings is defined as 440/500, 690/750 and 1000/1100 Volts. The manufacturer specifies the line bushings for operation in an ambient temperature -55°C to +115°C (or marked maximum operating temperature of the conductors, whichever is less).

Model Code:

LBabcde/fg. Line Bushings

a = Type Code: S, P, U, Z

b = Thread: M, N

c = Size of thread (two digit code from 10 to 42 or NPT equivalent)

d = Rated insulation voltage 0, 1, 2, 3, 4, 5

e = Number of cores (two digit code from 00 to 50)

f = Cable Option: 1, 2, 3, 4, 5, 6

g = Variable not affecting type of protection

13. Specific Conditions of Use:

1. The LB Series Line Bushings are intended to provide electrical connections through compartment walls of enclosures.
2. The LB Series Line Bushings require additional evaluation and testing in the end use equipment to verify compliance with FM Approvals requirements. The hazardous locations ratings are to be determined in conjunction with the end use equipment.
3. Conductors shall not be subjected to a pull force of more than 7 lbf (31 N).
4. Minimum operating temperature shall not be lower than the marked minimum operating temperature of the conductors or -55°C.
5. Maximum operating temperature shall not exceed the marked maximum operating temperature of the conductors or +115°C.
6. The LB Series Line Bushings are not for use or installation in Ketone atmospheres.
7. Cable option 5 (MEDikabel LIHDH) and Cable option 6 (Sarek Label SAKA-min), are available in stripped version only and are overpressure / hydrostatic rated for no more than 1915 psig.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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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
November 4th, 2010	Original Issue.
1 December 2010	<u>Supplement 1:</u> Report Reference: 101118 dated November 18, 2010 Description of the Change(s): maximum temperature range corrected
30 April 2014	<u>Supplement 2:</u> Report Reference: 140123 dated January 23, 2014 Description of the Change(s): Model change from LE type to LB type line bushing
20 January 2026	<u>Supplement 3:</u> Report Reference: PR470100 dated 20 January 2026. Description of the Change(s): Add 2 cable options. New Format Certificate and update FM Approvals standards 3600, 3615 to latest edition

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