



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

07-91ab-cde/*f. Line Bushing.

a = Sleeve Type 0,1 4,5,6, 7 or A

b = Isolation Voltage 0, 1, 2, 3, 8 or 9

c = Conductor Cross Sectional Area 0, 9, A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S or Z

d = Core Quantity 00 through 47 or 99

e = Sleeve Size 0, 1, 2, 3, 4, 5, 6, 7, 9, C, D, E, F, G or L

f = Code for Special Requirements A, S or X

Special Conditions of Use:

1. *The Line Bushing is intended for use as intercompartment/ feed-throughs in explosionproof/ flameproof enclosures.*
2. *Line Bushings require additional evaluation and testing in the end product to verify compliance to FM Approvals requirements.*
3. *Conductors shall not be subjected to a pull force of more than 7lbf (31N).*
4. *Operating temperature shall not exceed the marked maximum operating temperature of the conductors or 110°C whichever is less.*
5. *For f = "S" (Coax Cable Line Bushing) code option, line bushing is acceptable for up to 600 psi (41.4 Bars) over-pressure value.*

37-94a5-bcde/10. Electrode Line Bushing.

a = Sleeve type 0,1 or 4

b = Electrode Material 1 or 2

c = Number and Place of Electrode: 1 or 2

d = Cable Type and Insulation 1, 2, 3, 4, 5 or 6

e = Sleeve Size 0, 1, 2, B, C, D or E

Special Conditions of Use:

1. *The Line Bushing is intended for use as intercompartment/feed-throughs in explosionproof/flameproof enclosures.*
2. *Line Bushings require additional evaluation and testing in the end product to verify compliance to FM Approvals requirements.*
3. *Conductors shall not be subjected to a pull force of more than 7lbf (31 N).*
4. *Operating temperature shall not exceed the marked maximum operating temperature of the conductors or 110°C whichever is less.*

Equipment Ratings: Component for use as inter-compartment/feed-throughs in explosionproof / flameproof enclosures.



FM Approved for:

BARTEC GmbH
Max – Eyth - Strasse 16
97980 Bad Mergentheim
Germany



Member of the FM Global Group

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

| | |
|------------|------|
| Class 3600 | 1998 |
| Class 3615 | 2006 |
| Class 3810 | 1989 |


Original Project ID: 1Q5A5.AE

Approval Granted: December 12, 1991

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|----------------|---------------|------|
| 2X2A0.AE | December, 1993 | | |
| 3D9A6.AE | March 13, 1998 | | |
| 3002937 | Oct. 7, 1999 | | |
| 3036721 | July 14, 2009 | | |

FM Approvals LLC


Andrew Lozinski
Technical Team Manager


Date