



EU Type Examination Certificate CML 19ATEX1367X Issue 0

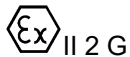
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Type EX-20**, EE-21** and EX-22** Range of Cable Glands**
- 3 Manufacturer **Amphenol EEC, Inc.**
- 4 Address 1701 Birchwood Ave, Des Plaines,
Illinois 60018, United States of
America
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014
EN IEC 60079-7:2015+A1:2018	EN 60079-31:2014

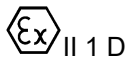
10 The equipment shall be marked with the following:

EX-20 & EX-22



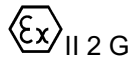
Ex db IIC Gb

Ex eb IIC Gb

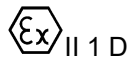


Ex ta IIIC Da

EE-21



Ex eb IIC Gb



Ex ta IIIC Da



CML 19ATEX1367X
Issue 0

11 Description

The type EX-20**, EE-21** and EX-22** ranges of cable glands may be supplied in gland size 16 to 100 with entry thread sizes M20 to M100 or with the equivalent size NPT, NPSM, BSPP, BSPT, PG or ET entry thread forms. They are intended for use with effectively filled and circular armoured, unarmoured, braided, tape or screened sheathed cables and comprise the following components:

- a. An entry component
- b. An elastomeric inner sealing ring
- c. A metal inner skid washer
- d. A compression nut
- e. An armour clamping cone
- f. A tapered clamp ring
- g. A middle nut
- h. An elastomeric outer sealing ring
- i. A nylon outer skid washer
- j. A back nut
- k. An O-ring entry body seal

Design options

- i. EX-20 Only - The use of a brass continuity washer to enable the glands to be used with lead inner sheathed cables. An optional reduced bore outer seal may also be fitted.
- ii. EX-22 Only - Replacement of the middle nut and back nut, outer seal and outer skid washer with an alternative middle cap component, for indoor use.
- iii. EE-21 Only - Removal of the inner sealing ring and inner skid washer, to permit the glands to be used with armoured, non-lead sheathed cables. An optional reduced bore outer seal may also be fitted.
- iv. Marking of EX-22 and EX-20 Cable glands IP68. The EE-21 Cable glands are marked IP66.
- v. Sealing rings are available in either neoprene or silicone rubber.

Notes:

Certificate Sira 05ATEX1120X / IECEx SIR 07.0110X is superseded by certificate CML 19ATEX1367X / IECEx CML 19.0114X.

The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 05ATEX1120X / IECEx SIR 07.0110X.

Where Sira 05ATEX1120X / IECEx SIR 07.0110X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.



CML 19ATEX1367X
Issue 0

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	22 Apr 2021	R12631A/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

None.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. Glands fitted with neoprene sealing rings (black) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -35°C to +90°C.
- ii. Glands fitted with silicone sealing rings (white or red) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -60°C to +180°C.
- iii. When the gland is used with increased safety and/or dust protected equipment, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
- iv. If the EX-20**, EE-21** and EX-22** types of cable glands only grip the cable sheath of the cable and do not clamp the cable armour or if they are used to terminate unarmoured, braided or screened cables, then they shall only be used for fixed installations, hence, the cables shall be effectively clamped to prevent pulling or twisting.
- v. The EX-20** and EX-22** cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66 and IP68 (50 metres 7 days).
- vi. The EE-21** range of cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66.
- vii. The threaded entry component threads without interface O-ring seals installed in an explosive dust atmosphere, within threaded entries, shall only be fitted into enclosures that have either:
 - parallel entries that will ensure that a minimum of 5 full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014.
 - tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014.

Certificate Annex

Certificate Number CML 19ATEX1367X
Equipment Type EX-20**, EE-21** and EX-22** Range of Cable Glands
Manufacturer Amphenol EEC, Inc.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
AMP/ATX/CR	1 of 1	7	22 Mar 2021	Trade Agent Label Drawing EX-20 Cable Gland Range
AMP/ATX/CRD	1 of 1	7	22 Mar 2021	Trade Agent Label Drawing EX-22 Cable Gland Range
AMP/ATX/CRO	1 of 1	7	22 Mar 2021	Trade Agent Label Drawing EE-21 Cable Gland Range