



EU Type Examination Certificate

CML 17ATEX1297X Issue 3

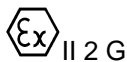
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **EFP Series Connectors - Plugs and Receptacles**
- 3 Manufacturer **Amphenol EEC Inc.**
- 4 Address **1701 Birchwood Ave.
Des Plaines, IL 60018,
USA**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, 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

- 10 The equipment shall be marked with the following:



II 2 G

Ex db eb IIC T5 or T6 Gb

Ta = -55/-40°C to +40/+50/+60°C



II 2 G

Ex db IIC T5 or T6 Gb

Ta = -55/-40°C to +40/+50/+60°C





**CML 17ATEX1297X
Issue 3**

10 Description

The EFP Series Connectors are Plugs and Receptacles quick snap action connectors intended for industrial applications. The connectors are available in Aluminium, Brass, Nickel Aluminium Bronze or 316 grade Stainless Steel. Male and Female connectors are available in multiple pin configurations either as inline connectors or panel/enclosure mount options. The following models are covered by this certificate:

EFP-1-22-33-444444-55-66667899-10-11

Where:

- 1 - Connector Body Material
- 2 - Shell Style
- 3 - Cable Adaptor Style
- 4 - Sealing Method
- 5 - Shell Size
- 6 - Insert Arrangement
- 7 - Contact Gender
- 8 - Termination style
- 9 - Insert Orientation
- 10 - Colour coding
- 11 -Variations

Note: Connector Body Material option “T” (Titanium) is not permitted.

The plug and receptacle, when fitted together, form a flamepath and are mechanically secured from removal by means of a threaded nut with a locking screw.

The temperature class and upper ambient temperature depend on the maximum power in the connector in accordance with the following table,

Connector Size	Maximum Power (W)					
	Upper Ambient Temperature +40°C		Upper Ambient Temperature +50°C		Upper Ambient Temperature +60°C	
	Temperature Class		Temperature Class		Temperature Class	
	T6	T5	T6	T5	T6	T5
12	23.8	31.7	17	24.3	10.7	18.7
16	39.6	52.8	30.2	43.2	14.6	25.6
20	52.1	69.4	37.2	53.1	17.1	29.8
24	64.3	85.1	47	67.1	24.1	42.1
28	79.5	106.1	57.3	81.8	29.8	52.2



**CML 17ATEX1297X
Issue 3**

Variation 1

This issue introduced the following changes:

- i. To update the manufacturer’s address

<p>To: 1701 Birchwood Ave. Des Plaines, IL 60018, USA</p>	<p>From: 4050 North Rockwell Street, Chicago, IL 60618 USA</p>
---	--

Variation 2

This issue introduced the following changes:

- i. To introduce an alternative 2-part epoxy.
- ii. To update standards EN 60079-0:2012+A11:2013 to EN IEC 60079-0:2018 and EN 60079-7:2015 to EN IEC 60079-7:2015+A1:2018.

Variation 3

This issue introduced the following changes:

- i. To recognise and correct the lower ambient temperature from -55°C/-20°C to -55°C/-40°C.
- ii. To recognise and introduce connector types EFP-17-8.
- iii. To recognise and introduce connector types EFP-15-7.

11 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	01/03/2018	R11551A/00	Issue of Prime Certificate
1	10/02/2021	R13833A/00	To introduce Variation 1
2	28/03/2023	R15452A/00	To introduce Variation 2
3	22/02/2024	R17374A/00	To introduce Variation 3

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

12 Conditions of Manufacture

None.



**CML 17ATEX1297X
Issue 3**

13 Specific Conditions of Use (Special Conditions)

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

- i. Cable Glands used in the assembly shall be separately certified ATEX equipment, marked Ex db IIC Gb and Ex eb IIC Gb, suitable for at least the lower ambient temperature and an upper service temperature of +85°C (T6 connectors) or +100°C (T5 connectors).
- ii. The connectors must be electrically isolated before connecting or disconnecting the connector halves. The connectors must not be connected or disconnected when an explosive atmosphere is present.
- iii. Protective covers must be fitted and secured in place when the connector halves are not engaged.
- iv. For Ex eb marked versions, the user shall verify the creepage and clearance requirements of EN IEC 60079-7:2015+A1:2018 are maintained during installation.
- v. For Ex eb marked versions, the user shall ensure the dielectric strength test of EN IEC 60079-7:2015+A1:2018 clause 7.1 is carried out following installation.

Certificate Annex

Certificate Number CML 17ATEX1297X
Equipment EFP Series Connectors - Plugs and Receptacles
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
EFP-SERIES-CERT	1 to 9	B	01/03/2018	EFP Series Submission Drawing
EFP-9500-10	1 of 1	N	01/03/2018	Label EFP Series

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
EFP-9500-10	1 of 1	R	10/02/2021	Label EFP Series

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
EFP-SERIES-CERT	1 to 9	C	24 Mar 2023	EFP SERIES SUBMISSION DRAWING QPS

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
EFP-SERIES-CERT	1 to 12	D	22 Feb 2024	EFP SERIES SUBMISSION DRAWING QPS
EFP-9500-10	1 to 3	S	22 Feb 2024	Label EFP Series