

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

AUSEx Scheme

Certificate of Conformity

Certificate No: AUS Ex 3902U **Issue 1:** 26/03/2008
Issue 0: 22/08/2003

Date of correction: 29/09/2016 *

This certificate has been corrected and replaces the previous version. The correction is relevant to the certification drawing 51695, Revision 12, dated 14/9/2016 and the drawing 51236 Revision 13, dated 14/09/2016, which have been corrected to indicate the minimum flamepath of 12.5 mm in Section B-B. Refer to “Corrected Drawing Schedule” on page 5.

Date of Expiry: 22/08/2013

Certificate Holder: Ampcontrol Burn Brite Pty Ltd
2 – 18 Canterbury Road
Bayswater North VIC 3153
AUSTRALIA

Electrical Equipment: 20A 250V Bolted Couplers and Panel Mount Plug/Socket Assemblies

Type of Protection: Ex d Zone 1

Marking Code: Ex d I T6 IP66
AUS Ex 3902U

Manufactured By: Ampcontrol Burn Brite Pty Ltd
2 – 18 Canterbury Road
Bayswater North VIC 3153
AUSTRALIA

Issued by:



919 Londonderry Road Londonderry NSW 2753
Australia

Phone: +61 2 4724 4900 **Fax:** +61 2 4724 4999



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This certificate is granted subject to the conditions as set out in Standards Australia Miscellaneous Publication MP69 and the Procedure (Doc Q7134) of the scheme.

The electrical equipment and any acceptable variation to it specified in the schedule to this certificate and the identified documents, was found to comply with the following standards:

- AS 2380.1-1989 Electrical equipment for explosive atmospheres - Explosion-protection techniques Part 1: General requirements (incorporating Amendment 1)
- AS 2380.2-1991 Electrical equipment for explosive atmospheres - Explosion-protection techniques Part 2: Flameproof enclosure d (incorporating Amendment 1)
- AS 1300-1988 Electrical equipment for coal mines – Bolted flameproof cable coupling devices
- AS 1939-1990 Degrees of protection provided by enclosures of electrical equipment (IP Code)

This certificate does not ensure compliance with electrical safety requirements and performance other than those included in the Standards listed above.

The equipment listed successfully met the examination and test requirements as recorded in

Test Report No: TestSafe 23531

File Reference: TestSafe 2002/054849 & 2008/002307



Signed for and on behalf of issuing authority

Quality & Certification Manager
Position

Date of Correction: 29 September 2016

Ex 3902U-1

This certificate and schedule may not be reproduced except in full.

This certificate is not transferable and remains the property of the issuing body to whom it must be returned in the event of it being revoked or not renewed.

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Schedule

Certificate No: AUS Ex 3902U

Issue: 1

Date of Issue: 26/03/2008

Certified Equipment: The equipment and accessories covered by this certificate are designed for use in coal mining applications and are documented in Table 1:

Table 1

Equipment Type	Catalogue No.	Configuration	Voltage & Current Rating	Usage With
Cable Coupling Socket	24068/C	5 Pin 3 Phase	250 V 20 A	Plug Ass'y 24068
Plug Assembly	24068	5 Pin 3 Phase	250 V 20 A	Coupler Ass'y 24068/C & Panel Mount Socket Ass'y 28042
Panel Mount Socket Ass'y	28042	5 Pin 3Phase	250 V 20 A	Plug Ass'y 24068
Bolted Terminating Plug Ass'y	24068/T	5 Pin 3 Phase	250 V 20 A	Coupler Ass'y 24068/C & Panel Mount Socket Ass'y 28042
Cable Coupling Socket Ass'y 16 mm ²	51266	4 Pin 1 Phase	250 V 20 A	Plug Ass'y 24021-16
Cable Coupling Socket Ass'y 10 mm ²	51412	4 Pin 1 Phase	250 V 20 A	Plug Ass'y 24021-10
Socket Ass'y Panel Mount	28080	4 Pin 1 Phase	250 V 20 A	Plug Ass'y 24021-16 and 24021-10
Plug Ass'y 16 mm ²	24021-16	4 Pin 1 Phase	250 V 20 A	Cable Coupling Socket Ass'y 16 mm ² 51266
Plug Ass'y 10 mm ²	24021-10	4.Pin 1 Phase	250 V 20 A	Cable Coupling Socket Ass'y 10 mm ² 51412
Bolted Terminating Plug Ass'y	24040	4 Pin 1 Phase	250 V 20 A	Cable Coupling Socket Ass'y 16 mm ² & 10 mm ² and Socket Ass'y Panel Mount
Plug Cover With Chain	22171	-	-	All Plug Assemblies
Plug Entry Stop With Chain	22140	-	-	All Socket Assemblies

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Addendum to Certificate No. Ex 3902U-1

Certified Equipment continued:

The bolted couplers consist of a plug assembly and a matching cable coupling socket assembly with bodies moulded from an engineering grade non metallic material. These bodies house moulded interiors of the same material which support an earth, a pilot and two main contact pins for the four pin single phase version. The five pin three phase version has an earth, a pilot and three main contact pins. Corresponding sockets match the pin configurations of the plugs with the shape of the mouldings designed to give correct alignment of the contacts. The plug and socket assemblies are bolted together with a moulded plug spacer superimposed between the two. The spacer and the plug have stainless steel inserts moulded into them, which form a cylindrical flame path when coupled together.

Also available are single and three phase panel mount socket assemblies which accommodate the single and three phase plug assemblies. The space at the rear, where the leads exit the panel mount socket assembly is encapsulated with 2 part epoxy resin forming an inseparable flameproof joint.

The panel mount sockets are designed to be used in conjunction with Ex e and Ex m enclosures.

An integral cable gland assembly is provided for sealing of the cable entry into each plug and cable coupling socket assembly. After connection of the cable conductors to the pins and sockets, the void within each enclosure is filled with a silicone rubber flit plug encapsulant.

Each bolted coupler and socket assembly is available with pins and sockets designed to accommodate either 10 mm² or 16 mm² conductors.

A flameproof pilot link terminating plug is available for both the single and three phase socket assemblies.

Flameproof dust covers are available for use on all plug and socket assemblies.

Due to the voltage and current ratings of the bolted couplers and the plug and socket assemblies falling below the minimum ratings specified in AS 1300 (ie 1.1 Kv/55 A), their design is not strictly in accordance with AS 1300. The design differences mainly relate to the body size, rating, dimensions, material, colour coding and some of the electrical aspects of the equipment, such as the omission of a phase barrier and the arrangement of the contact sockets and pins. However, the explosion protection safety aspects of the equipment has not been compromised with the design principles adopted.

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Addendum to Certificate No. Ex 3902U-1

Conditions of Certification:

1. It is a condition of manufacture that each bolted coupler and panel mount plug and socket assembly shall have a routine high voltage test carried out in accordance with AS 1300, Clause 3.2.4.
2. It is a condition of safe use that the panel mount socket assemblies must be used in conjunction with an Ex e or an Ex m enclosure and all equipment listed in table 1, must be used as per table 1 as they are components only and are not suitable for use in a Zone 1 area as stand alone apparatus.

Drawing Schedule

Drawing No.	Drawing Title	Issue	Date
51236	BBL 20Amp Bolted Plug/Socket Assemblies-4-Pin	9	28/07/2003
51695	BBL 20Amp Bolted Plug/Socket Assemblies-5-Pin	10	28/07/2003
211113	Label	3	24/07/2003
211114	Label	3	24/07/2003
211130	Label	3	24/07/2003
211143	Label	3	24/07/2003
211144	Label	3	24/07/2003
211145	Label	3	24/07/2003
21519	Label	2	24/07/2003
211054	Label	2	24/07/2003
211205	Label	1	28/07/2003
211207	Label	1	28/07/2003
211208	Label	1	28/07/2003
211209	Label	1	28/07/2003
211217	Label	1	15/08/2003
211218	Label	1	15/08/2003

Schedule of Variations

Variations Permitted by Issue 1:

Change of Certificate holder's name.

Conditions of Certification relating to Variation permitted by Issue 1:

All previous conditions still apply.

*Corrected Drawing Schedule

Drawing No.	Drawing Title	Issue	Date
51236	BBL 20Amp Bolted Plug/Socket Assemblies-4-Pin	13	14/9/2016
51695	BBL 20Amp Bolted Plug/Socket Assemblies-5-Pin	12	14/9/2016

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