



QPS Evaluation Services Inc
 Testing, Certification and Field Evaluation Body
 Accredited in Canada, the USA, and Internationally

File
LR1537

CERTIFICATE OF COMPLIANCE
 (ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	CCG Cable Terminations (Pty) Ltd.
Address	33-37 Forge Road Spartan Industrial Area Kempton Park, 1619 South Africa
Project Number	LR1537-2R1
Product	Cable and Enclosure Fittings
Model Number	See Annex below
Ratings/Markings	See Annex below
Applicable Standards	See Annex below
Factory/Manufacturing Location	Same as Applicant

Statement of Compliance: The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.



Issued By: Dave Adams, P.Eng.
 Manager, Hazardous Locations [Ex Equipment] Department

Signature: *[Handwritten Signature]*

Date: November 28, 2019



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Annex:

1. Cable Fittings

1.1 Adaptors/Reducers/Unions/Couplers

Product Name	Model Nomenclature
Threaded Adaptors	AGZZZGYYYYE-MNA
Threaded Reducers	RGZZZGYYYYE-MNA
Threaded Unions	UGZZZGYYYYE-MNA
Threaded Couplers	CGZZZGYYYYE-MNA
Insulated Adaptor*	AGZZZGYYYYE-INSA-MNA
Insulated Reducer*	RGZZZGYYYYE-INSA-MNA
<p>Where:</p> <p>A = ADAPTOR R = REDUCER U = UNION C = COUPLER G = THREADFORM M = METRIC N = NPT</p> <p>ZZZ = MALE THREAD SIZE Metric:016,020,025,032,040,050,063,075,080,090,100 NPT:012,034,001,114,112,002,212,003,312,004 * Metric:016,020,025 * NPT:012,034,001</p> <p>YYY = FEMALE THREAD SIZE Metric:016,020,025,032,040,050,063,075,080,090,100 NPT:012,034,001,114,112,002,212,003,312,004 * Metric:016,020,025 * NPT:012,034,001</p> <p>E = Ex COMPONENT INSA = INSULATED MNA = NORTH AMERICAN</p>	

Markings:

Class I Division 1 Gr ABCD
 Class II Division 1 Gr EFG
 Class III Division 1
 Class I Division 2 Gr ABCD
 Class II Division 2 Gr FG
 Class III Division 2
 Class I Zone 1 AEx db IIC Gb
 Ex db IIC Gb
 Class I Zone 1 AEx eb IIC Gb
 Ex eb IIC Gb
 Zone 21 AEx tb IIIC Db
 Ex tb IIIC Db
 IP65/66/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets).

Temperature Range:

HDPE gasket –60°C to +95°C
 Nylon gasket – -60°C to +100°C
 PTFE gasket – -60°C to +160°C
 *Insulated Adaptors/Reducers –-20°C to +95°C (All gasket materials)
 (DIV 1 & AEx / Ex db applications, -20°C only)

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1.2 Fixed & Swivel Adapters

Product Name	Model Nomenclature
Fixed & Swivel Adapters	GZZZGYYYE-MNA
Where:	
# =	FELB FIXED ELBOW AELB ADJUSTABLE ELBOW FT FIXED 'T' ADAPTOR AT ADJUSTABLE 'T' ADAPTOR FY FIXED 'Y' ADAPTOR AY ADJUSTABLE 'Y' ADAPTOR
G=	THREAD TYPE (N = NPT, M = METRIC)
ZZZ =	MALE THREAD SIZE Metric:016,020,025,032 NPT:012,034,001
YYY =	FEMALE THREAD SIZE Metric:016,020,025,032 NPT:012,034,001
E =	Ex COMPONENT
MNA =	NORTH AMERICAN

Markings:

- Class I Division 1 Gr ABCD
- Class II Division 1 Gr EFG
- Class III Division 1
- Class I Division 2 Gr ABCD
- Class II Division 2 Gr FG
- Class III Division 2
- Class I Zone 1 AEx db IIC Gb
- Ex db IIC Gb
- Class I Zone 1 AEx eb IIC Gb
- Ex eb IIC Gb
- Zone 21 AEx tb IIIC Db
- Ex tb IIIC Db
- IP65/66/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets).

Temperature Range:

- HDPE gasket – Ta: -60°C to +95°C
- Nylon gasket – Ta: -60°C to +100°C
- PTFE gasket – Ta: -60°C to +160°C
- DIV 1 & AEx / Ex db applications, -20°C only



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2. Enclosure fittings

2.1 Blanking Plugs

Product Name	Model Nomenclature
Threaded Blanking Plugs	PFGZZZER-MNA
Where:	
P =	PLUG (Blanking element)
F =	TYPE
	S = STOPPER
	D = DOME HEAD
	H = HEX HEAD
G =	THREADFORM
	M = METRIC
	N = NPT
ZZZ =	THREAD SIZE
	Metric:016,020,025,032,040,050,063,075,080,090,100
	NPT:012,034,001,114,112,002,212,003,312,004
E =	Ex COMPONENT
R =	REVERSED (STOPPER PLUG ONLY)
MNA =	NORTH AMERICAN

Markings:

- Class I Division 1 Gr ABCD
- Class II Division 1 Gr EFG
- Class III Division 1
- Class I Division 2 Gr ABCD
- Class II Division 2 Gr FG
- Class III Division 2
- Class I Zone 1 AEx db IIC Gb
- Ex db IIC Gb
- Class I Zone 1 AEx eb IIC Gb
- Ex eb IIC Gb
- Zone 21 AEx tb IIIC Db
- Ex tb IIIC Db
- IP65/66/68 – Metric Threads (Gaskets), IP65 – NPT Threads (no gaskets).

Temperature Range:

- HDPE gasket – Ta: -60°C to +95°C
- Nylon gasket – Ta: -60°C to +100°C
- PTFE gasket – Ta: -60°C to +160°C
- DIV 1 & AEx / Ex db applications, -20°C only

2.2 Breather/Drains

Product Name	Model Nomenclature
Breather/Drain	BDGZZZ*-MNA
Where:	
BD =	Breather Drain
G =	THREAD TYPE
	M = METRIC
	N = NPT
ZZZ =	THREAD SIZE
	M20= 020
	M25= 025
	½"NPT = 012
	¾"NPT = 034
* =	(D = Ex d, E = Ex e)
MNA =	NORTH AMERICAN



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Markings:

BDGZZD-MNA	BDGZZE-MNA
Class I Division 1 Gr ABCD Class II Division 1 Gr EFG Class III Division 1 Class I Division 2 Gr ABCD Class II Division 2 Gr FG Class III Division 2 Ex db IIC Gb Zone 21 AEx tb IIIC Db Ex tb IIIC Db IP65/66 – Metric Threads (Gaskets), IP65 – NPT Threads (No gaskets) Ta= -20°C to +95°C	Class I Zone 1 AEx eb IIC Gb Ex eb IIC Gb Zone 21, AEx tb IIIC Db Ex tb IIIC Db IP65/66 – Metric Threads (Gaskets), IP65 – NPT Threads (No gaskets) Ambient Temperature Range BD***E (HDPE gasket) -60°C to +95°C BD***E (Nylon gasket) -60°C to +100°C BD***E (PTFE gasket) -60°C to +160°C

Temperature Range:

BDGZZD-MNA	BDGZZE-MNA
Ta= -20°C to +95°C	BD***E (HDPE gasket) -60°C to +95°C BD***E (Nylon gasket) -60°C to +100°C BD***E (PTFE gasket) -60°C to +160°C

Applicable Standards:

Cable Fittings:

Standard Number	Edition	Title
UL 2225	4 th Ed	Cables and Cable-Fittings for Use in Hazardous (Classified) Locations
UL 514B	6 th Ed	Conduit, Tubing, and Cable Fittings
CSA C22.2 No. 18.3-12	2 nd Ed	Conduit, Tubing, and Cable Fittings
CSA C22.2 No. 174	2018	Cables and glands for use in hazardous locations
CSA C22.2 No. 60079-0	2019	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No. 60079-1	2016	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CSA C22.2 No. 60079-7	2016	Explosive atmospheres – Part 7: Equipment protection by increased safety “e”
CSA C22.2 No. 60079-31	2015	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
UL 60079-0	Ed 7	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-1	Ed 7	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 60079-7	Ed 5	Explosive atmospheres – Part 7: Equipment protection by increased safety “e”
UL 60079-31	Ed 2	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”

Enclosure Fittings:

Model BDGZZD-MNA** Breathers and PFGZZER Blanking Plugs

Standard Number	Edition	Title
CSA C22.2 No. 60079-0	2019	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No. 60079-1	2016	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CSA C22.2 No. 60079-31	2015	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
CSA C22.2 No. 30	1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA C22.2 No. 25	2017	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
UL 60079-0	Ed 7	Explosive atmospheres – Part 0: Equipment – General requirements



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UL 60079-1	Ed 7	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 60079-31	Ed 2	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
UL 1203	5 th Ed	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

Model BDGZZZE-MNA** Breathers

Standard Number	Edition	Title
CSA C22.2 No. 60079-0	2019	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No. 60079-7	2016	Explosive atmospheres – Part 7: Equipment protection by increased safety “e”
CSA C22.2 No. 60079-31	2015	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”
UL 60079-0	Ed 7	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-7	Ed 5	Explosive atmospheres – Part 7: Equipment protection by increased safety “e”
UL 60079-31	Ed 2	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”