IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx PTB 05.0004X	Issue No: 1	Certificate history:
			Issue No. 1 (2011-09-12)
Status:	**Current**	Page 1 of 5	Issue No. 0 (2005-02-01)
Date of Issue:	**2011-09-12**		
Applicant:	**COOPER Crouse Hinds GmbH** Neuer Weg Nord 49 69412 Eberbach **Germany**		
Electrical Apparatus:	**Cable Gland Type GHG 960 92. P....**		
Optional accessory:			
Type of Protection:	**Increased Safety**		
Marking:	Ex e II T amb -55 °C to +70 °C		

Approved for issue on behalf of the IECEx Certification Body: Dr.-Ing. Ulrich Johannsmeyer

Position: Head of Department "Intrinsic Safety and Safety of Systems"

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

IECEx Certificate of Conformity

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Manufacturer:	**COOPER Crouse Hinds GmbH** Neuer Weg Nord 49 69412 Eberbach **Germany**	
Additional Manufacturing location(s):		

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

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

IEC 60079-0 : 2000 Edition:3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-7 : 2001 Edition:3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEx ATR: DE/PTB/04-015 IECEx QAR DE/BVS/QAR11.0009/00	File Reference: B993128 / B993101

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The cable entry, type GHG 960 92.. P.... made of Polyamide or Frianyl serves to introduce permanently laid cables into electrical equipment of the type of protection Increased Safety "e". The cable entry is composed of intermediate glands with two different widths of threaded joint, a sealing ring of different designs and a cap nut. Accessories are: blanking element, reducing gland and expansion gland. They are installed in enclosures with through-holes or threaded holes, with or without lock nut.

Technical data

Nominal size	Degree of mechanical hazard:	max. Temperature range	Cable Diameter
M 12 x 1,5 Frianyl	low	- 20 °C to + 70 °C	from 4,0 mm to 7,0 mm
Polyamide	low	- 55 °C to + 70 °C	
M 16 x 1,5 Frianyl	low	- 20 °C to + 70 °C	from 5,5 mm to 10,0 mm
Polyamide	low	- 55 °C to + 70 °C	
M 20 x 1,5 Frianyl	high	- 40 °C to + 70 °C	from 5,5 mm to 13,0 mm
Polyamide, Frianyl	low	- 55 °C to + 70 °C	
M 25 x 1,5 Frianyl	high	- 25 °C to + 70 °C	from 8,0 mm to 17,5 mm
Polyamide, Frianyl	low	- 55 °C to + 70 °C	from 8,0 mm to 15,5 mm
M 32 x 1,5 Polyamide, Frianyl	high	- 55 °C to + 70 °C	from 12,0 mm to 21,0 mm
M 40 x 1,5 Polyamide, Frianyl	high	- 55 °C to + 70 °C	from 17,0 mm to 28,0 mm
M 50 x 1,5 Polyamide, Frianyl	high	- 55 °C to + 70 °C	from 22,0 mm to 35,0 mm
M 63 x 1,5 Polyamide, Frianyl	high	- 55 °C to + 70 °C	from 27,0 mm to 48,0 mm

The temperature range can change depending on the material of sealings (if not the material of the cable gland restricts the temperature range).

Neoprene	-30 °C to +70 °C
Nitrile rubber NBR	-40 °C to +70 °C
Evoprene	-50 °C to +70 °C
Silicone	-55 °C to +70 °C

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Installation in equipment with wall thicknesses of:	at least 1,5 mm
Protection against contact, foreign matter and water:	IP 66 acc. to EN 60 529

Key of type designation

GHG 960 92	. .	P ....
1	2	3

1	Type designation
2	Kind of the Threat 35 = Kind of thread M 12 x 1,5 to M 63 36 = Reducing cable glands 40 = Pg 16 flat cable glad 42 = M 25 x 1,5 flat cable gland 43 = Pg 16 circular cable gland 44 = P.... extention cable gland 44 = P 0022 M20/M16 x 1,5 44 = P 0023 M25/M20 x 1,5 44 = P 0024 M32/M25 x 1,5 44 = P 0025 M40/M32 x 1,5 44 = P 0026 M50/M40 x 1,5 44 = P 0027 M63/M50 x 1,5
3	Without influence on the type of protection

Documents, Additional information

Description	Issue	Date	Number
Description	0	1999-01-15	4163
Description	0	1999-06-01	4195
Drawing	0	1999-01-15	GHG 96-3-3763

CONDITIONS OF CERTIFICATION: YES as shown below:

Only permanently laid cables and conduits may be entered. The user must guarantee suitable clamping.
The cable entries may be used only in places where they are protected against the influence of mechanical danger.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

New QAR