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## Compression Ring Type Glands For use with all Pyro Mi Wiring Cables - Safe Use and Fitting Instructions

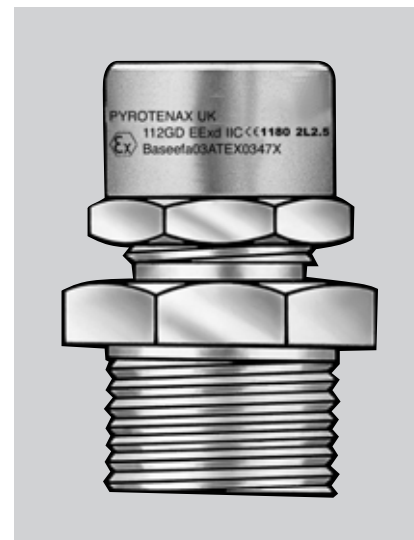
**CERTIFICATE No** Baseefa 03ATEX0347X **CE1180**  
**CODE**  II 2GD **EEx d IIC**

**Example Reference:** Cable type followed by and gland thread e.g. 2LI.5 20:  
2 conductor Light duty cable with 1.5mm conductors 20mm ISO metric thread

**NOTE:** For certain Heavy Duty cables the gland size increases when Pyro Mi Earth Tail Seals are fitted

Glands for Thermocouples, Transducer Cables, Stainless Steel and Cupro-Nickel Sheathed Wiring Cables and Heating Element Cold Lead-in Cable usually use a two digit number (cable diameter x 10) as the Cable Size. Glands to fit Imperial sized cables use a three digit number which is the cable diameter in thousandths of an inch

The following instructions apply to all Brass and Stainless Steel Ring Type Glands for use in Hazardous Area Applications assessed to BS EN 50014: 1998 & BS EN 50018: 2000 and compliance with ATEX Directive 94/9/EC



- 1 The Compression Ring Type Glands are supplied with the components assembled to fit the cable sizes as indicated on the Gland Nut.
- 2 Compression Ring Type Gland components of Brass and Stainless Steel and for different sizes of cable and materials **shall not** be mixed.
- 3 The Compression Ring Type Gland is only certified for use on the cable sizes as indicated on the Gland Nut. The cable sizes are shown on the table overleaf.
- 4 Where the lead-in thread is not ISO Metric the thread form and size is indicated on one of the hexagonal flats of the gland body.
- 5 The Compression Ring Type Glands may be used with apparatus group II dust and flammable gases and dust in an ambient temperature range -60°C to 250°C.
- 6 Installation shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. BS EN 60079-14:1997.
- 7 Inspection and maintenance of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. EN 60079-17:1997.
- 8 Repairs to the Compression Ring Cable Glands are not practical; a damaged gland shall be replaced with a complete new gland. This work shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. BS EN 60079-17.
- 9 If the Compression Ring Type Glands are likely to come into contact with aggressive substances, then it is the responsibility of the user to take suitable precautions to prevent them being adversely affected. It is essential to replace any covering removed to facilitate termination, by wrapping over the exposed gland and cable sheath with two full half laps up to the entry position. This is then covered by the gland shroud. (Corrosive environments /aggressive substances e.g. acidic liquids or gases).
- 10 Sealing washers **must not** be used with Compression Ring Type Glands. Gland threads must be sealed in a dust environment with an approved, non setting sealing compound in accordance with the code of practice in BS EN 60079-14.
- 11 Stainless Steel and Brass Gland assemblies **shall not** be fitted directly on to a heating cable, they shall only be used on Copper, Cupro-Nickel or Stainless Steel sheathed mineral insulated heating element cold lead-in cables, provided the maximum temperature attained by the lead-in cable sheath, when the cables are energised, will not exceed the T temperature rating of the area in which they are installed, the maximum cable gland temperature, or the maximum cable seal operating temperature, which ever is lowest.

The limits on diameters are shown in the table below:

Nominal Cable Diameter	Maximum Diameter Limit	Minimum Diameter Limit
Above 3.2mm	+0.23mm	+0.10
Above 1.6mm to 3.2mm	+0.20mm	+0.08
Below 1.6mm	+0.15mm	+0.03

Cable Size and Diameter		Thermocouple, Heating and allied Cable Sizes	Bare Cable Diameter
Wiring Cable Size	Bare Cable Diameter (mm)		
2L1	5.1	xxxxB10	1.0mm
2L1.5	5.7	xxxxB15	1.5mm
2L2.5	6.6	xxxxB20	2.0mm
2L4	7.7	xxxxB30	3.0mm
3L1	5.8	xxxxB45	4.5mm
3L1.5	6.4	xxxxB55	5.5mm
3L2.5	7.3	xxxxB60	6.0mm
4L1	6.3	xxxxB80	8.0mm
4L1.5	7.0	xxxxB108	10.8mm
4L2.5	8.1		
7L1	7.6	xxxxB040	0.040 inch
7L1.5	8.4	xxxxB062	0.062 inch
7L2.5	9.7	xxxxB125	0.125 inch
1H2.5	5.3	xxxxB188	0.188 inch
1H6	6.4	xxxxB250	0.250 inch
1H10	7.3	xxxxB375	0.375 inch
1H16	8.3	xxxxB500	0.500 inch
1H25	9.6		
1H35	10.7	xxxxT10	1.0mm
1H50	12.1	xxxxT15	1.5mm
1H70	13.7	xxxxT20	2.0mm
1H95	15.4	xxxxT30	3.0mm
1H120	16.8	xxxxT45	4.5mm
1H150	18.4	xxxxT60	6.0mm
1H185	20.4	xxxxT80	8.0mm
2H1.5	7.9		
2H2.5	8.7	xxxxT040	0.040 inch
2H4	9.8	xxxxT062	0.062 inch
2H6	10.9	xxxxT125	0.125 inch
2H10	12.7	xxxxT188	0.188 inch
2H16	14.7	xxxxT250	0.250 inch
2H25	17.1	xxxxT375	0.375 inch
3H1.5	8.3	xxxxT500	0.500 inch
3H2.5	9.3		
3H4	10.4	xxxL49	4.9mm
3H6	11.5	xxxA49	4.9mm
3H10	13.6	xxxL61	6.1mm
3H16	15.6	xxxA61	6.1mm
3H25	18.2		
4H1.5	9.1	SC1H2.5	5.3mm
4H2.5	10.1	DC1H2.5	5.3mm
4H4	11.4	SC1H6	6.4mm
4H6	12.7	DC1H6	6.4mm
4H10	14.8		
4H16	17.3	SC2H2.5	6.6mm
4H25	20.1	DC2H2.5	6.6mm
7H1.5	10.8		
7H2.5	12.1		

## Fitting Instructions

1. Slide the complete ring type gland onto the cable sheath before terminating the cable.
2. Assemble the completed termination into the terminal box entry.
3. Secure the gland body into the equipment by screwing it into a threaded entry by means of a spanner on the hexagon of the gland body.
4. Locate the seal pot in the desired position and fully tighten the back nut to swage down the compression ring onto the cable sheath. This secures the cable into the application.

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