CATALOGUE 531

EXPLOSION PROTECTED CONNECTORS

eXLink – A REVOLUTION IN TERMINATION

COOPER Crouse-Hinds

CEAG

eXLink®
safe solutions

Production premises of Cooper Crouse-Hinds GmbH, location Eberbach, Germany

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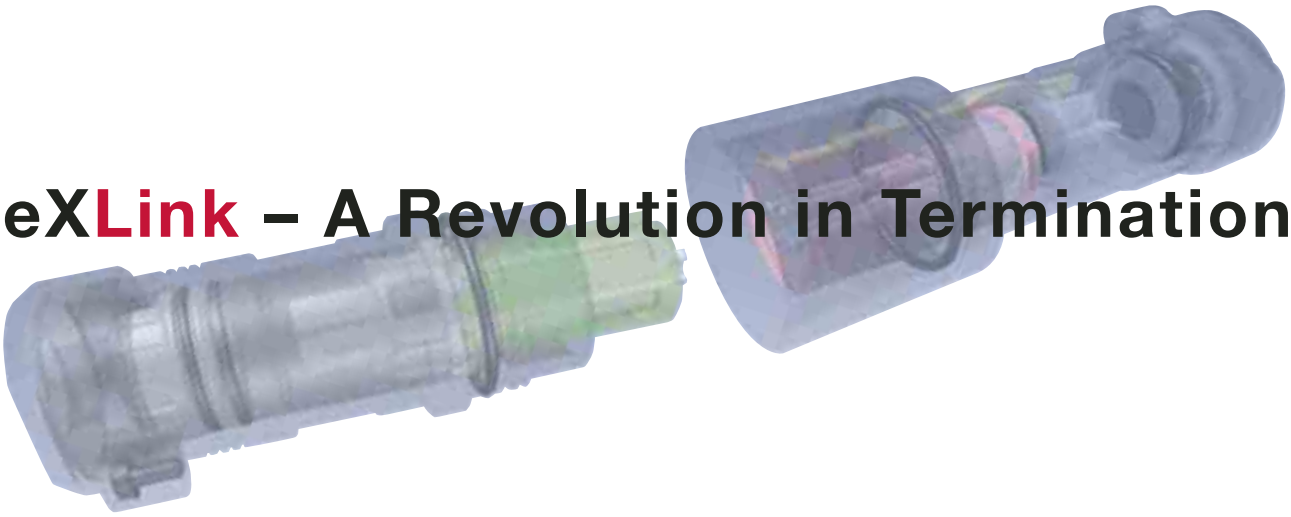


eXLink – A Revolution in Termination

What is eXLink?

An Ex Approved Plug & Socket Connection System

An Ex approved Plug & Socket connection system enabling installation, maintenance, repair and servicing of electrical equipment to be carried out within a hazardous area

- **Without isolating the equipment**

and

- **Without the need to obtain a hot work permit**

Typical Electrical Installation

Removes Hidden Costs

Currently the standard practice for making an electrical connection requires the installer to open the enclosure, fit a cable gland, terminate the conductors and re-seal the enclosure. This apparently simple solution carries with it a number of potential problems that can affect the integrity of the equipment and has many hidden costs.

Connector System Installation

The 'Plug & Play' Nature of eXLink Dramatically Reduces Labour and Cost

The 'plug and play' nature of connector systems dramatically reduces the time taken to install, maintain, repair or replace electrical equipment resulting in reduced site labour costs and minimising production down time.
The simplification of the installation process removes the problems associated with tradition methods, insuring theoverall integrity of the installation is maintained.
These benefits have been recognised and integrated into many industrial applications, **eXLink** system brings these benefits to hazardous area installations resulting in:

- **Significant reduction in the total cost of ownership**

and

- **Enhanced safety**

The Revolution of Electrical Connection

In hazardous areas, it is still common practice today to connect field devices electrically using terminals inside the enclosure. This then involves time consuming, expensive work when a device has to be replaced:

- Shut-down power supply
- Open the enclosure
- Disconnect the conductor on the terminals
- Loosen the screws
- Remove the cable
- Connect the new device in the reverse order

Connector Systems

The First Comprehensive Connection Labour and Cost

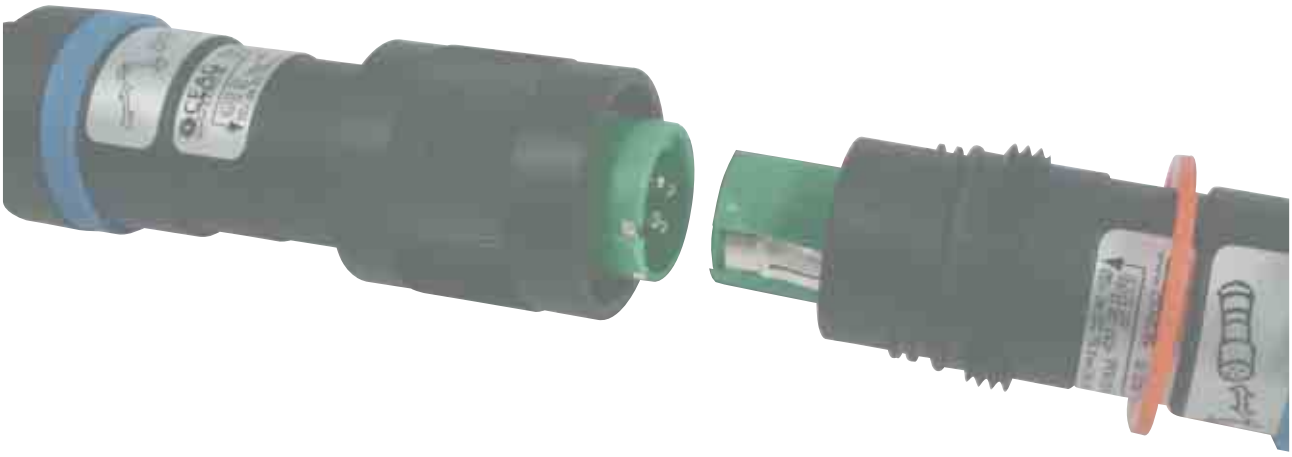
In the past, operators of explosion protected machines could only partially (if at all) enjoy the benefits of using connectors in electrical installations as the established solutions with an ex-approval were technically limited and/or uneconomic. In collaboration with other leading manufacturers of explosion protected products, Cooper Crouse-Hinds has developed a system which not only overcomes these technical limitations but also remains costeffective.

The solution

Simple, Fast and Cost Effective Electrical Connections

The Cooper Crouse-Hinds **eXLink** system offers the market more than a simple, flexible plug and socket system. It also offers the following decisive benefit: – devices can be electrically connected and disconnected in the explosive area without the need for disconnecting the product or a hot work permit.
This means:

- a drastic reduction in the time required for installation
- minimization of down times
- enhanced operational reliability
- no consequential damages due to incorrectly installed devices



Connection Method

A simple 3-part process reliably privides a safe and secure connecting mechanically and electrically.

- Insert male connectors mechanically into female socket
- Rotate connector 30° to a stop - then the connector fully mated, closing the electrical contacts in a flameproof chamber
- Lock and seal the connector with the locking nut

System Components

- **Connector**
  Fitted onto the cable with female socket connection.
  Can be live when disconnected.

- **Plug**
  Fitted onto the cable with male pin connection.
  Must not be live when disconnected.

- **Receptacle**
  Fitted into the equipment with female socket connection.
  Can be live when disconnected.

- **Inlet**
  Fitted into the equipment with male pin connection.
  Must not be live when disconnected.

- **Elbow**
  Fitted into the equipment to facilitate installation the of an inlet or a receptacle where inline connection is physically prohibited. The position of the elbow entry can be adjusted through 360degrees to suit any installation.

- **Locking device**
  Fitted to the connector system to allow a padlock to be attached preventing **eXLink** from being disconnected by unauthorized persons.



EXPLOSION PROTECTED CONNECTOR eXLink

What Benefits Would Specifying eXLink Bring Plant Operators?

By selecting **eXLink** as opposed to traditional wiring methods the user will be choosing a system that drastically reduces installation and maintenance time, increases operational safety and efficiency, reducing costs significantly.
During the development programme CEAG worked closely with a major OGP plant operator to estimate the potential cost saving. The calculations were based on an installation with 2000 connection points over a 15-year lifecycle, an average failure rate for repair of 5% and for maintenance of 10% at two service intervals per year. Using traditional wiring methods the time estimated for installation, service, repair and maintenance was 9.636 hours.

Using eXLink this time would be reduced to 131 hours a saving of 9.505 hours

eXLink on-site installation:

- Remove the protective cap from the connector fitted into equipment.
- Remove the protective cap from the connector fitted onto the cable.
- Mate the connectors

Traditional on-site electrical installation:

- Prepare the cable for glanding and the conductors for termination within the equipment.
- Remove the lid and entry thread blanking element.
- Fit the gland, IP washers etc. into the enclosure and terminate the cable within the gland.
- Terminate the conductors within the enclosure.
- Refit the lid.

Potential problems caused during traditional installation:

- Damage to the cable and/or conductors during preparation.
- Damage to threads or flamepaths during the disassembly or assembly of the enclosure and gland.
- Incorrect gland selection with regard to:
  - Cable acceptance range.
  - Cable armour type.
  - Entry thread size.
  - Entry thread form.
  - Material compatibility with enclosure material.
  - Ingress protection.
  - Impact resistance.
  - Environmental conditions.
  - Method of Ex-protection.
- Insufficient thread engagement between gland and enclosure to maintain Ex integrity.
- Loss of Ingress Protection capability through either damage to or the omission of IP seals or thread sealant.

eXLink service, repair or replacement procedure:

- Break the connectors
- Fit the protective cap from the connector fitted onto the cable
- Remove the equipment
- Service, repair or replace the equipment
- Remove the protective cap from the connector fitted onto the cable
- Mate the connectors.

Traditional service, repair or replacement procedure:

- Obtain a hot-work permit
- Isolate the equipment
- Remove the enclosure lid
- Uninstall the conductors from the terminals
- Disassemble the cable gland from the enclosure
- Remove the equipment
- Service, repair or replace the equipment
- Replace the equipment
- Fit the gland, IP washers etc. into the enclosure and terminate the cable within the gland
- Terminate the conductors within the enclosure
- Refit the lid

Potential problems caused during traditional service, repair or replacement procedure:

- Damage to threads or flamepaths during the disassembly or assembly of the enclosure and gland.
- Loss of Ingress Protection through damage to or the omission of IP seals or thread sealant during the procedure.
- Loss of production whilst equipment is offline
- Loss of protection whilst safety equipment is offline

What Benefits would Specifying eXLink bring Ex-Equipment Manufacturers?

By incorporating **eXLink** into their equipment OEMs are able to offer a product that not only provides the operators with the significant cost saving benefits as outlined but further ensure the integrity of their equipment through its operational life.

Enhanced Equipment Integrity and Reliability

The equipment can be sealed under factory conditions ensuring the overall integrity of the equipment including IP protection and is not adversely affected during installation, maintenance or repair enhancing product reliability.

No Terminal Chamber

Installing **eXLink** within the production process removes the need to provide an accessible terminal chamber. In the long term this could allow for re-engineering of the equipment and potentially significant cost savings.

Cable Gland Problems Eradicated

Glanding into the equipment often creates a number of complications and represents a potential for loss of the overall integrity of the equipment, using **eXLink** removes these issues completely.

EXPLOSION PROTECTED CONNECTOR eXLink

Stationary Installations

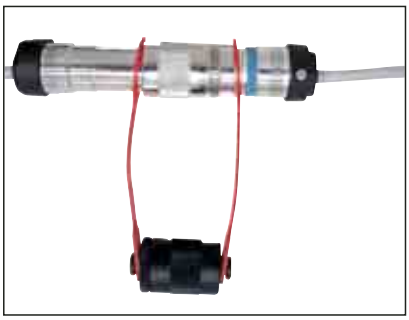
Valve control units
A major manufacturer of valve drives use **eXLink** for connection to the electrical supply. This has led to a dramatic reduction in installation and servicing costs on site.

Heating circuits infilling systems
Heating circuits are used to warm the filling tubes keeping the product at the optimal temperature during filling. Operation shut-downs caused by heating failures and the associated damage incurred by this can be avoided by simply replacing the heating circuits.
eXLink allows the control circuit to be connected or broken quickly and safely without the need to isolate the equipment leading to a reduction in operational costs.

Plug-in motorconnection with termistormonitoring
Explosion protected wall sockets used to connect large motors require monitoring for excessive heating. The use of **eXLink** for the thermistor connection allows the operator to separate the power and control circuit safely and quickly while servicing the a wall socket.

Gates and locks in Hazardous Areas
A manufacturer of gates and locks for the chemical industry now use **eXLink**. The system allows any work the electrical connection to be made or broken safely by the fitter without an electrician present. The manpower and time saved mean that **eXLink** will provide substantial and ongoing cost savings.

Earthing connections for tank or container filling
Static electricity represents a major threat to safety when tanks and containers are being filled or emptied within hazardous areas. During filling or emptying a continuous earth connection must be ensured. Using **eXLink** ensures the earthing connections are made and broken safely. This application has lead to dramatic reduction in the time taken to fill and empty tankers, providing substantial cost benefits.



Portable Installations

Portable measuring equipment in hazardous areas

A manufacturer of battery-operated portable gas measuring equipment used in sewer management uses a **eXLink** to connect the probe to the battery located in an Ex-d enclosure (supplied by Cooper Crouse-Hinds).

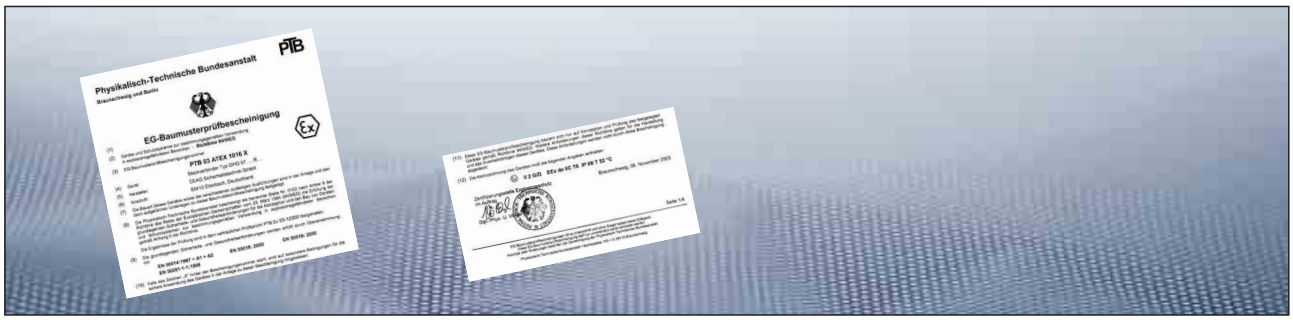
The probe also uses **eXLink** to connect data gathering equipment to read the measured values. The advantage of this is that the equipment, Which is used in harsh hazardous atmospheres, can be handled safely and faulty sensors can be replaced safely and quickly.

Balances used in pharmaceutical companies production areas

A manufacturer of explosion protected balances used by pharmaceutical companies uses **eXLink** to connect the balances to 230 V AC 400 mA power supplies housed within Exe enclosures (supplied by Cooper Crouse Hinds) located within the production area, allowing the balances to be used wherever they are required within the facility. The plug & play nature of **eXLink** allows this to be done safely and quickly while the systems lightweight design allows the equipment to retain it's compact dimensions.

Floodding light connections

A site using fluorescent light fittings installed on tilting masts uses **eXLink** to connect the fluorescent fittings to the power supply. This allows individual light fittings to be disconnected from the power supply without having to switch off any other lamps. This solution also allows the use of short cable Lengths minimizing problems with cable management (trip hazards). Tilting poles equipped with **eXLink** allow lamps to be serviced quickly and safely in hazardous areas.

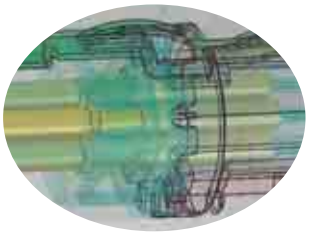


Approval

The system is EEx de IIC T6 approved, the basic construction being an Ex-d chamber in which Ex-e multi-contact pins are enclosed and mated, within an Ex-e housing. As the approval is an equipment or apparatus approval no further certification is required prior to the systems use with any suitably approved Ex-equipment. The system is also approved for hazardous dust applications.

Conducting Pins

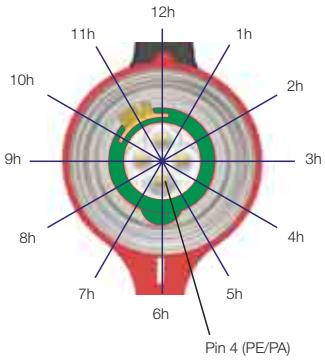
The self-cleaning Ex-e multi-contact conducting pins provide permanent faultless electrical connection. To ensure that the contact system remains fully functional even during long-term use in aggressive environments all conducting pins are silver-plated. The quality of the connection means that the system is suitable for current in the mA range up to 10 A continuously and up to 20 A when the circuit is protected by a fuse.



Coding

Male and female connectors are coded using the IEC 309 system where voltage and current types have their own „time of day“ to ensure that the correct connection is made:

- **2 h: Bus connections**
- **4 h: 110 V AC 2-pole + PE**
- **5 h: 24 V AC 4-pole + PE**
- **6 h: 230 V AC 2-pole + PE**
- **8 h: 24 V DC 4-pole**
- **10 h: 230 V AC 4-pole + PE**
- **12 h: 24 V AC 2-pole + PE**

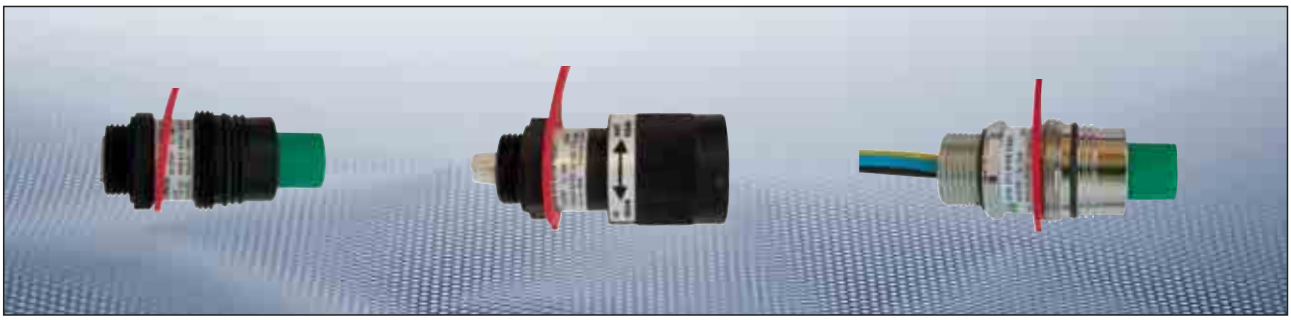


Extended Ambient Temperatures

As standard the system is approved for ambient temperatures from –55°C to +40°C when operating at 10A, with an extended ambient option from –55°C to +75°C when the system is operating at 2A.

Ingress Protection

The system maintains ingress protection levels of both IP66 and IP68 to 2 metres.

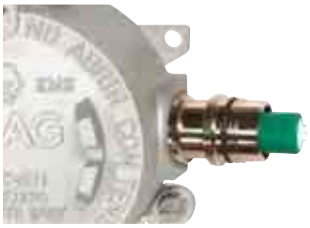


Connector Type: Equipment Connection

- **Receptacle:**
  Must be selected where the equipment can be live when **eXLink** is disconnected.

- **Inlet:**
  Must be selected where the equipment cannot be live when **eXLink** is disconnected

EEx-e connection



EEx-d connection (< 2 liter)

Body Material

- **Nylon:** Suitable for Ex-e Enclosures only.
- **Metallic:** Suitable for Ex-e and Ex-d Enclosures.

Notes:

- When selecting a metallic inlet for an Ex-d enclosure with an internal volume greater than 2 litres GHG 57 * 6 (page 22) must be used.
- Metallic versions are available in nickel plated brass or 316 stainless steel
- Where the cable is terminated using the armour clamping connector a metallic version must be selected.

Coding

See ‘General Specification Notes’

Conductor Connection

Nylon body version (pin/conductor termination):

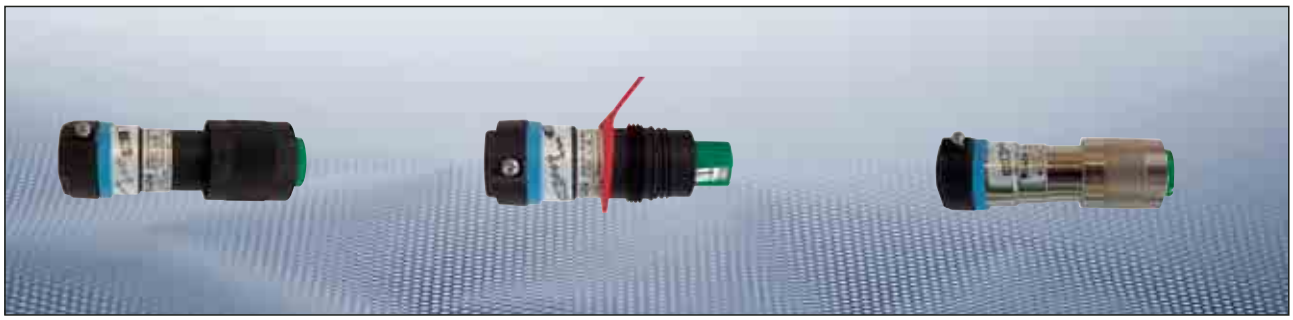
- Crimp 0.75 – 1.5 mm^2 or Solder 0.34 – 1.0 mm^2
- Crimp 1.5 – 2.5 mm^2

Metallic body version:

- 1.5 mm^2 pre-wired numerically identified conductors, 30 cm long
- 2.5 mm^2 pre-wired numerically identified conductors, 30 cm long

Entry Thread

- Nylon body version M20 only
- Metallic body version M20 or NPT



SELECTION GUIDE eXLink

Connector Type: Cable Connection

- **Plug:**
  Must be selected where the cable cannot be live when **eXLink** is disconnected.
- **Connector:**
  Must be selected where the cable can be live when **eXLink** is disconnected.

Body Material/Style

- **Nylon:** Suitable for mating with either nylon or metallic inlet/receptacle.
- **Metallic:** Should be selected with metallic inlet/receptacle when necessary by ambient conditions (chemical attack, temperature range or screenings
- **Metallic with Armour Clamp:** Must be selected to terminate steel wire armoured cable and can terminate screened or braided cable. If selected a metallic inlet/receptacle must be used.

Notes:

- Standard nylon and metallic versions are suitable for unarmoured cable and can be used to terminate cable screens or armours that can be pigtailed, sheathed and terminated within the earth strap crimp terminal
- Metallic versions are available in nickel plated brass or 316 stainless steel

Cable Size

- 4 – 7.5 mm Seal size 1
- 7.5 – 11 mm Seal size 2

Notes:

- When used cables are near to 7.5 mm, use size 1
- Armoured cable version as per specification, page 24.

Coding

See ‘General Specification Notes’

Conductor Connection

Nylon body version (pin termination):

- Crimp 0.75 – 1.5 mm^2 or solder 0.34 – 1.0 mm^2
- Crimp 1.5 – 2.5mm^2
- Cage clamp 0.5 to 1.5 mm^2

Note:

Cage clamp versions cannot be supplied with the additional earth strap.

Accessories

Additional accessories can be specified to enhance the installation:

- **Elbow:** 90 deg elbow available in Nylon Ex-e and Metallic Ex-d versions.
- **Lock:** A two-part lock to secure the connection.

Anti-Torsion Device:

Can be fitted between the inlet or receptacle and the equipment to prevent the connection becoming loose if the installation is subject to excessive vibration.

Looking for an eXLink type? Your key to placing an order

To ensure that you receive your order **eXLink** quickly and with no complications, we have assigned the order numbers following a logical scheme. All order numbers can be composed or back-configured for monitoring purposes using this key.

Naturally, not all theoretic combinations make sense or are technically possible – our field service employees will be happy to answer any questions you may have with regard to this.

1. Version:

1 = 2/3 pole + PE
4 = 4 pole + PE

2. Type:

1 = Elbow
3 = Connector
6 = Inlet > 2000 cm³
7 = Plug
8 = Receptacle
9 = Inlet

3. Connection technology[1]:

1 = to 1.5 mm² crimp
2 = to 2.5 mm² crimp
6 = Cage clamp terminal

4. Coding

02 = 2 h, BUS
04 = 4 h, 110 V AC
05 = 5 h, 24 V DC
06 = 6 h, 230 V AC
08 = 8 h, 24 V DC
10 = 10 h, 230 V AC
12 = 12 h, 24 V AC

Device type: eXLink

G	H	G	5	7	1	7	1	0	4	R	1	0	0	1

5. Material[1]:

0 = Plastic
1 = Special steel
2 = Special steel with armour
3 = Nickel-plated brass
4 = Brass with armour
5 = Special steel with NPT thread
6 = Brass with NPT thread

6. Accessories:

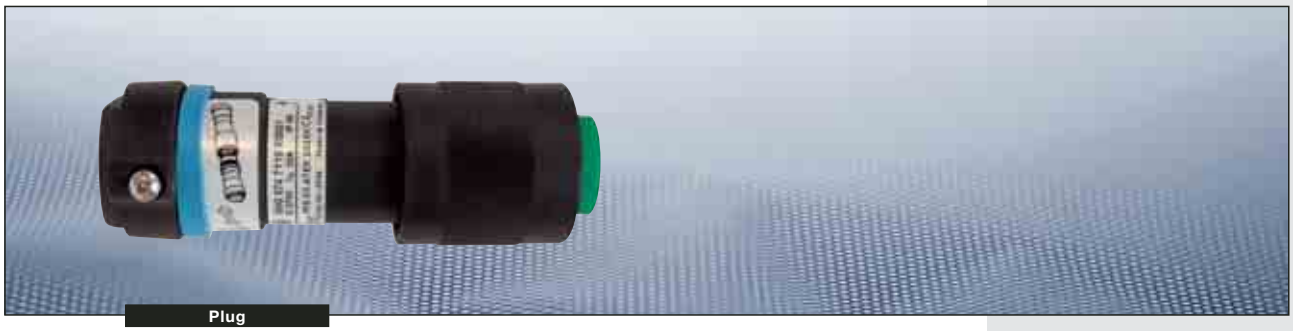
0 = without locking device
9 = with locking device

7. Diameter of connection cable:

1 = 4 – 7 mm
2 = 8 – 11 mm

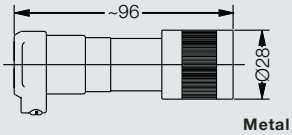
Example:	**GHG 571 7104 R 1001**
GHG 57:	**eXLink**
1:	**2/3 pin + PE**
7:	**Plug**
1:	**up to 1.5 mm² crimp terminal**
04:	**Coding 4 h (2-pole + PE 110 V AC)**
R:	internal code
1:	**Special steel version**
0:	**without locking device**
0:	internal code
1:	**for connection cables 4 - 7 mm diameter**

[1] Depending on the design, not all combinations are possible.

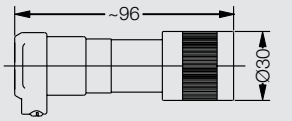


Plug

Technical detail	
eXLink Plug	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material*	Polyamide, brass nickel plated or stainless steel SS 316 L
Rated voltage	
Crimp connection	AC to 250 V, 50/60 Hz | DC to 60 V
Cage clamp	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A
	DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A
	DC-3: 60 V / 0.5 A
Back-up fuse max.	
without thermal protection	10 A
Back-up fuse max.	
with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response	
acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A)
Extended temperature range	-55 °C to +75 °C (Rated current 2 A)
Storage temperature	
in original wrapping	-55 °C to +80 °C
Degree of protection EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	II: Plastic | I: Metal
Terminal cross section	Crimp 1.5 mm²: 0.75 - 1.5 mm² | Solder: 0.34 - 1.0 mm²
	Crimp 2.5 mm²: 1.5 - 2.5 mm²
	Cage clamp: 0.5 - 1.0 mm² multi wire
	0.5 - 1.5 mm² single wire
Cable entries	Ø 4 - 7 mm | Ø 8 - 11 mm

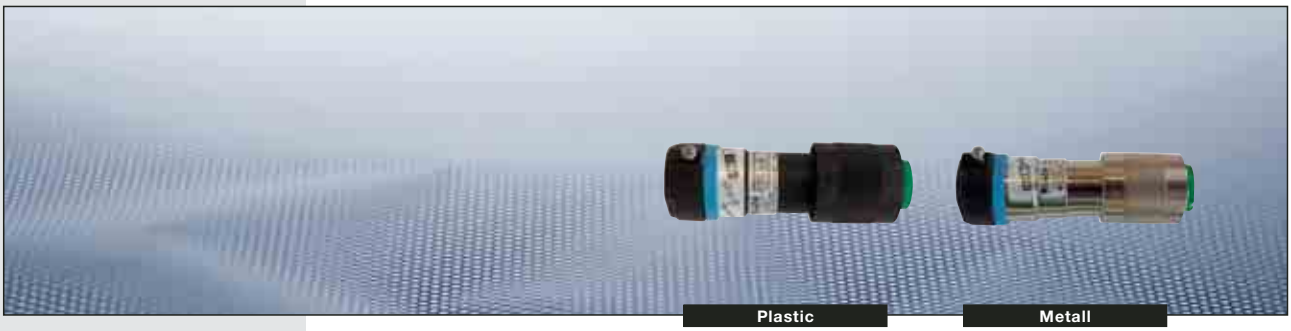


Metal



Plastic

Dimensions in mm



Ordering code Plug

7 = Plug

G	H	G	5	7	X	7	X	X	X	R	X	X	0	X

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = to 1.5 mm² Crimp
2 = to 2.5 mm² Crimp
6 = Cage clamp terminal**

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

**only for 2/3-pol + PE
*only for 4-pol + PE

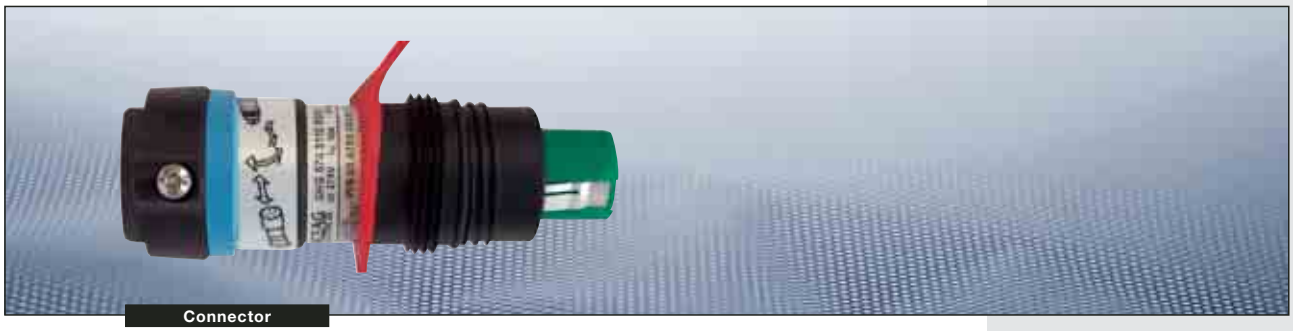
5. Material
0 = Plastic
1 = Stainless steel SS316L
3 = Brass nickel plated

6. Accessories
0 = without locking device
8 = Plug with protection cap
9 = with locking device

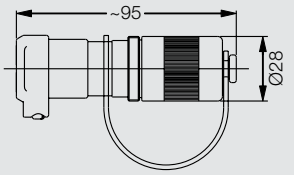
7. Diameter of connection cable
1 = 4 – 7 mm
2 = 8 – 11 mm

Ordering details for plugs in moulded plastic version

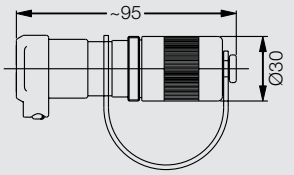
Voltage	Pole	Coding	Type of connection	Diameter of connection cable 4 - 7 mm Order No.	Diameter of connection cable 8 - 11 mm Order No.
BUS	3-pole + PA	2 h	Crimp 1.5 mm²	**GHG 571 7102 R0001**	**GHG 571 7102 R0002**
BUS	3-pole + PA	2 h	Cage clamp	**GHG 571 7602 R0001**	**GHG 571 7602 R0002**
110 V AC	2-pole + PE	4 h	Crimp 1.5 mm²	**GHG 571 7104 R0001**	**GHG 571 7104 R0002**
110 V AC	2-pole + PE	4 h	Crimp 2.5 mm²	**GHG 571 7204 R0001**	**GHG 571 7204 R0002**
110 V AC	2-pole + PE	4 h	Cage clamp	**GHG 571 7604 R0001**	**GHG 571 7604 R0002**
24 V DC	4-pole + PE	5 h	Crimp 1.5 mm²	**GHG 574 7105 R0001**	**GHG 574 7105 R0002**
24 V DC	4-pole + PE	5 h	Crimp 2.5 mm²	**GHG 574 7205 R0001**	**GHG 574 7205 R0002**
230 V AC	2-pole + PE	6 h	Crimp 1.5 mm²	**GHG 571 7106 R0001**	**GHG 571 7106 R0002**
230 V AC	2-pole + PE	6 h	Crimp 2.5 mm²	**GHG 571 7206 R0001**	**GHG 571 7206 R0002**
230 V AC	2-pole + PE	6 h	Cage clamp	**GHG 571 7606 R0001**	**GHG 571 7606 R0002**
24 V DC	4-pole	8 h	Crimp 1.5 mm²	**GHG 571 7108 R0001**	**GHG 571 7108 R0002**
24 V DC	4-pole	8 h	Crimp 2.5 mm²	**GHG 571 7208 R0001**	**GHG 571 7208 R0002**
24 V DC	4-pole	8 h	Cage clamp	**GHG 571 7608 R0001**	**GHG 571 7608 R0002**
230 V AC	4-pole + PE	10 h	Crimp 1.5 mm²	**GHG 574 7110 R0001**	**GHG 574 7110 R0002**
230 V AC	4-pole + PE	10 h	Crimp 2.5 mm²	**GHG 574 7210 R0001**	**GHG 574 7210 R0002**
24 V AC	2-pole + PE	12 h	Crimp 1.5 mm²	**GHG 571 7112 R0001**	**GHG 571 7112 R0002**
24 V AC	2-pole + PE	12 h	Crimp 2.5 mm²	**GHG 571 7212 R0001**	**GHG 571 7212 R0002**
24 V AC				**GHG**	**R0002**


Connector

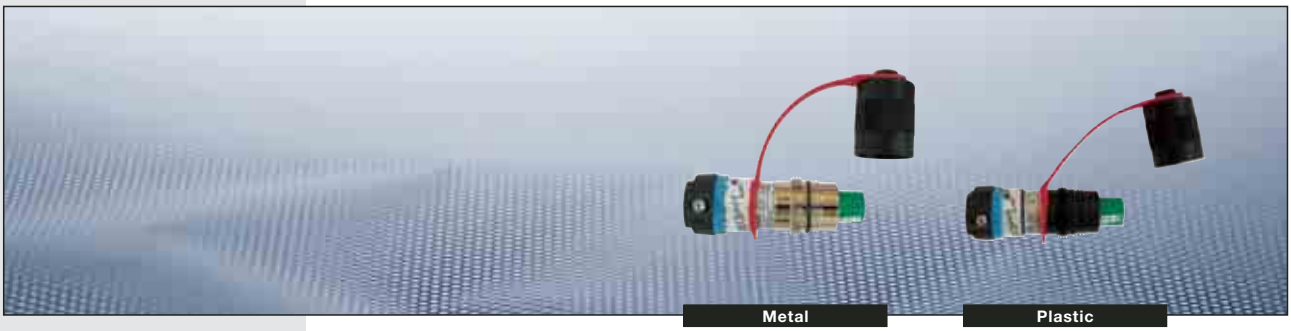
Technical detail	
eXLink Connector	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material*	Polyamide, brass nickel plated or stainless steel SS 316 L
Rated voltage	
Crimp connection	AC to 250 V, 50/60 Hz | DC to 60 V
Cage clamp	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A DC-3: 60 V / 0.5 A
Back-up fuse max. without thermal protection	10 A
Back-up fuse max. with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A) -55 °C to +75 °C (Rated current 2 A)
Storage temperature in original packing	-55 °C to +80 °C
Degree of protection acc. EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	II: Plastic | I: Metal
Terminal cross section	Crimp 1.5 mm²: 0.75 - 1.5 mm² | Solder: 0.34 - 1.0 mm² Crimp 2.5 mm²: 1.5 - 2.5 mm² Cage clamp: 0.5 - 1.0 mm² multi wire 0.5 - 1.5 mm² single wire
Cable entries	Ø 4 - 7 mm | Ø 8 - 11.0 mm



Metal



Plastic



Ordering code Connector

3 = Connector

G	H	G	5	7	X	3	X	X	X	R	X	X	0	X

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = to 1.5 mm² Crimp
2 = to 2.5 mm² Crimp
6 = Cage clamp terminal**

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

**only for 2/3 pol + PE
*only for 4pol + PE

5. Material
0 = Plastic
1 = Stainless steel SS316L
3 = Brass nickel plated

6. Accessories
0 = without locking device
9 = with locking device

7. Diameter of connection cable
1 = 4 – 7 mm
2 = 8 – 11 mm

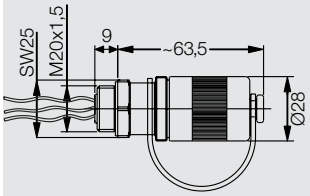
Ordering details for connector in brass nickel plated version

Voltage	Pole	Coding	Type of connection	Diameter of connection cable 4 - 7 mm Order No.	8 - 11 mm Order No.
BUS	3-pole + PA	2 h	Crimp 1.5 mm²	**GHG 571 3102 R3001**	**GHG 571 3102 R3002**
BUS	3-pole + PA	2 h	Cage clamp	**GHG 571 3602 R3001**	**GHG 571 3602 R3002**
110 V AC	2-pole + PE	4 h	Crimp 1.5 mm²	**GHG 571 3104 R3001**	**GHG 571 3104 R3002**
110 V AC	2-pole + PE	4 h	Crimp 2.5 mm²	**GHG 571 3204 R3001**	**GHG 571 3204 R3002**
110 V AC	2-pole + PE	4 h	Cage clamp	**GHG 571 3604 R3001**	**GHG 571 3604 R3002**
24 V DC	4-pole + PE	5 h	Crimp 1.5 mm²	**GHG 574 3105 R3001**	**GHG 574 3105 R3002**
24 V DC	4-pole + PE	5 h	Crimp 2.5 mm²	**GHG 574 3205 R3001**	**GHG 574 3205 R3002**
230 V AC	2-pole + PE	6 h	Crimp 1.5 mm²	**GHG 571 3106 R3001**	**GHG 571 3106 R3002**
230 V AC	2-pole + PE	6 h	Crimp 2.5 mm²	**GHG 571 3206 R3001**	**GHG 571 3206 R3002**
230 V AC	2-pole + PE	6 h	Cage clamp	**GHG 571 3606 R3001**	**GHG 571 3606 R3002**
24 V DC	4-pole	8 h	Crimp 1.5 mm²	**GHG 571 3108 R3001**	**GHG 571 3108 R3002**
24 V DC	4-pole	8 h	Crimp 2.5 mm²	**GHG 571 3208 R3001**	**GHG 571 3208 R3002**
24 V DC	4-pole	8 h	Cage clamp	**GHG 571 3608 R3001**	**GHG 571 3608 R3002**
230 V AC	4-pole + PE	10 h	Crimp 1.5 mm²	**GHG 574 3110 R3001**	**GHG 574 3110 R3002**
230 V AC	4-pole + PE	10 h	Crimp 2.5 mm²	**GHG 574 3210 R3001**	**GHG 574 3210 R3002**
24 V AC	2-pole + PE	12 h	Crimp 1.5 mm²	**GHG 571 3112 R3001**	**GHG 571 3112 R3002**
24 V AC	2-pole + PE	12 h	Crimp 2.5 mm²	**GHG 571 3212 R3001**	**GHG 571 3212 R3002**
24 V AC			Cage clamp	**GHG**	**R3002**

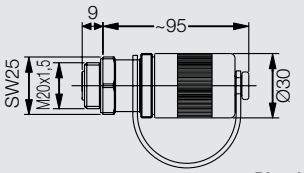

Receptacle

Technical detail	
eXLink Receptacle	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material*	Polyamide, brass nickel plated or stainless steel SS 316 L
Rated voltage	
Crimp connection	AC to 250 V, 50/60 Hz | DC to 60 V
Cage clamp	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A
	DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A
	DC-3: 60 V / 0.5 A
Back-up fuse max.	
without thermal protection	10 A
Back-up fuse max.	
with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response	
acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A)
	-55 °C to +75 °C (Rated current 2 A)
Storage temperature	
in original packing	-55 °C to +80 °C
Degree of protection acc. EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	II: Plastic | I: Metal
Terminal cross section	Crimp 1.5 mm²: 0.75 - 1.5 mm² | Solder: 0.34 - 1.0 mm²
	Crimp 2.5 mm²: 1.5 - 2.5 mm²
	30 cm multi wire: 1.5 mm² | 2.5 mm²

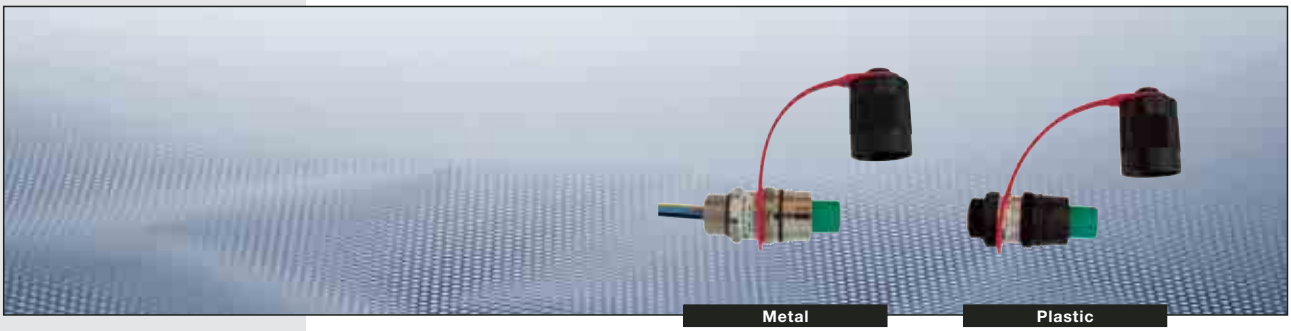
* The metal versions can be mounted in flameproof enclosures cat. „d“ or increased safety, cat. „e“.



Metal



Plastic



Ordering code Receptacle

8 = Receptacle

GHG	57	X	8	X	X	X	R	X	X	0	1

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = to 1.5 mm² Crimp [1]
2 = to 2.5 mm² Crimp [1]
1 = 30 cm multi wire 1.5 mm² [2]
2 = 30 cm multi wire 2.5 mm² [2]

[1] only moulded plastic version
[2] only metal version

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

**only for 2/3-pol + PE
*only for 4-pol + PE

5. Material
0 = Plastic with thread M20
1 = Stainless steel with thread M20
3 = Brass nickel plated with thread M20
5 = Stainless steel with thread NPT
6 = Brass nickel plated with thread NPT

6. Accessories
0 = without locking device
9 = with locking device

Ordering details for receptacle in stainless steel

Voltage	Pole	Coding	Type of connection	Thread M20 x 1,5 Order No.	Thread 1/2" NPT Order No.
BUS	3-pole + PA	2 h	30 cm multi wire 1.5 mm²	**GHG 571 8102 R1001**	**GHG 571 8102 R5001**
110 V AC	2-pole + PE	4 h	30 cm multi wire 1.5 mm²	**GHG 571 8104 R1001**	**GHG 571 8104 R5001**
110 V AC	2-pole + PE	4 h	30 cm multi wire 2.5 mm²	**GHG 571 8204 R1001**	**GHG 571 8204 R5001**
24 V DC	4-pole + PE	5 h	30 cm multi wire 1.5 mm²	**GHG 574 8105 R1001**	**GHG 574 8105 R5001**
24 V DC	4-pole + PE	5 h	30 cm multi wire 2.5 mm²	**GHG 574 8205 R1001**	**GHG 574 8205 R5001**
230 V AC	2-pole + PE	6 h	30 cm multi wire 1.5 mm²	**GHG 571 8106 R1001**	**GHG 571 8106 R5001**
230 V AC	2-pole + PE	6 h	30 cm multi wire 2.5 mm²	**GHG 571 8206 R1001**	**GHG 571 8206 R5001**
24 V DC	4-pole	8 h	30 cm multi wire 1.5 mm²	**GHG 571 8108 R1001**	**GHG 571 8108 R5001**
24 V DC	4-pole	8 h	30 cm multi wire 2.5 mm²	**GHG 571 8208 R1001**	**GHG 571 8208 R5001**
230 V AC	4-pole + PE	10 h	30 cm multi wire 1.5 mm²	**GHG 574 8110 R1001**	**GHG 574 8110 R5001**
230 V AC	4-pole + PE	10 h	30 cm multi wire 2.5 mm²	**GHG 574 8210 R1001**	**GHG 574 8210 R5001**
24 V AC	2-pole + PE	12 h	30 cm multi wire 1.5 mm²	**GHG 571 8112 R1001**	**GHG 571 8112 R5001**
24 V AC			wire 2.5 mm²	**GHG**	**R5001**

Inlet

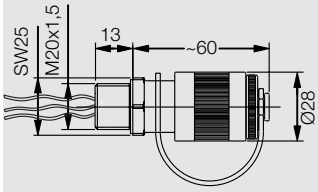
Inlet for Ex-d application <2L

EXPLOSION PROTECTED CONNECTOR eXLink

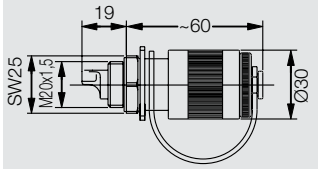
Inlet Volume < 2000 cm³

Technical detail	
eXLink Inlet Volumen < 2000 cm³	
Marking to 94/9/EC	⟨Ex⟩ II 2 G | ⟨Ex⟩ II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material*	Polyamide, brass nickel plated or stainless steel SS 316 L
Rated voltage	
Crimp connection	AC to 250 V, 50/60 Hz | DC to 60 V
Cage clamp	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A
	DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A
	DC-3: 60 V / 0.5 A
Back-up fuse max.	
without thermal protection	10 A
Back-up fuse max.	
with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response	
acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A)
	-55 °C to +75 °C (Rated current 2 A)
Storage temperature	
in original packing	-55 °C to +80 °C
Degree of protection EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	II: Plastic | I: Metal
Terminal cross section	Crimp 1.5 mm²: 0.75 - 1.5 mm² | Solder: 0.34 - 1.0 mm²
	Crimp 2.5 mm²: 1.5 - 2.5 mm²
	Cage clamp: 0.5 - 1.0 mm² multi wire
	0.5 - 1.5 mm² single wire
	30 cm multi wire: 1.5 mm² | 2.5 mm²

* The metal version can be mounted in flameproof enclosures cat. „d“ or increased safety, cat. „e“. The flameproof enclosure may not exceed the max. inlet volume of 2000 cm³ (V < 2000 cm³).



Inlet Metal



Inlet Plastic

Dimensions in mm

EXPLOSION PROTECTED CONNECTOR eXLink

Ordering code Inlet Volume < 2000 cm³

9 = Inlet Volume < 2000 cm³

G	H	G	5	7	X	9	X	X	X	R	X	X	0	1

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = to 1.5 mm² Crimp [1]
2 = to 2.5 mm² Crimp [1]
1 = 30 cm multi wire 1.5 mm² [2]
2 = 30 cm multi wire 2.5 mm² [2]

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

6. Accessories
0 = without locking device
9 = with locking device

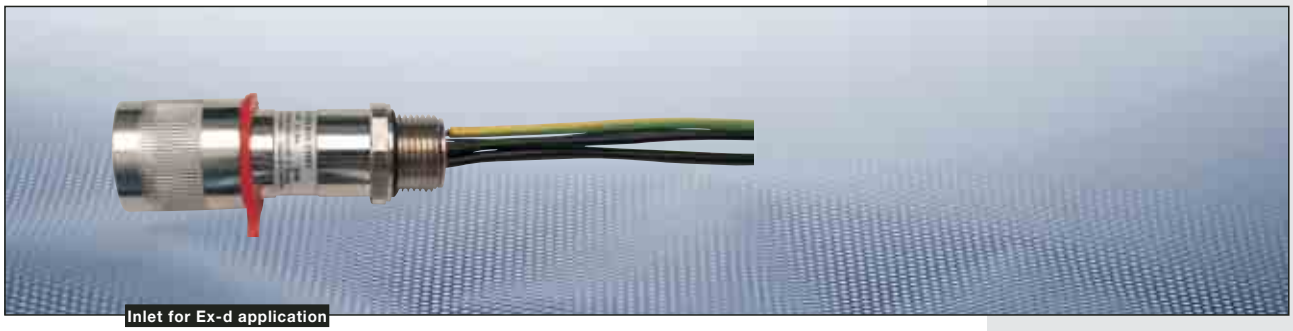
5. Material
0 = Plastic with thread M20
1 = Stainless steel with thread M20
3 = Brass nickel plated with thread M20
5 = Stainless steel with thread NPT
6 = Brass nickel plated with thread NPT

[1] only moulded plastic version
[2] only metal version

**only for 2/3-pol + PE
*only for 4-pol + PE

Ordering details for inlet moulded plastic version

Voltage	Pole	Coding	Type of connection	Thread M20 x 1,5 Order No.
BUS	3-pole + PA	2 h	Crimp 1.5 mm²	**GHG 571 9102 R0001**
110 V AC	2-pole + PE	4 h	Crimp 1.5 mm²	**GHG 571 9104 R0001**
110 V AC	2-pole + PE	4 h	Crimp 2.5 mm²	**GHG 571 9204 R0001**
24 V DC	4-pole + PE	5 h	Crimp 1.5 mm²	**GHG 574 9105 R0001**
24 V DC	4-pole + PE	5 h	Crimp 2.5 mm²	**GHG 574 9205 R0001**
230 V AC	2-pole + PE	6 h	Crimp 1.5 mm²	**GHG 571 9106 R0001**
230 V AC	2-pole + PE	6 h	Crimp 2.5 mm²	**GHG 571 9206 R0001**
24 V DC	4-pole	8 h	Crimp 1.5 mm²	**GHG 571 9108 R0001**
24 V DC	4-pole	8 h	Crimp 2.5 mm²	**GHG 571 9208 R0001**
230 V AC	4-pole + PE	10 h	Crimp 1.5 mm²	**GHG 574 9110 R0001**
230 V AC	4-pole + PE	10 h	Crimp 2.5 mm²	**GHG 574 9210 R0001**
24 V AC	2-pole + PE	12 h	Crimp 1.5 mm²	**GHG 571 9112 R0001**
24 V AC			Crimp 2.5 mm²	

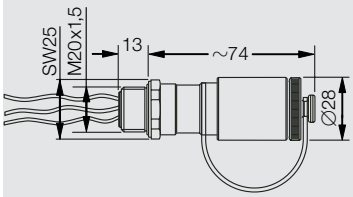

Inlet for Ex-d application

EXPLOSION PROTECTED CONNECTOR eXLink

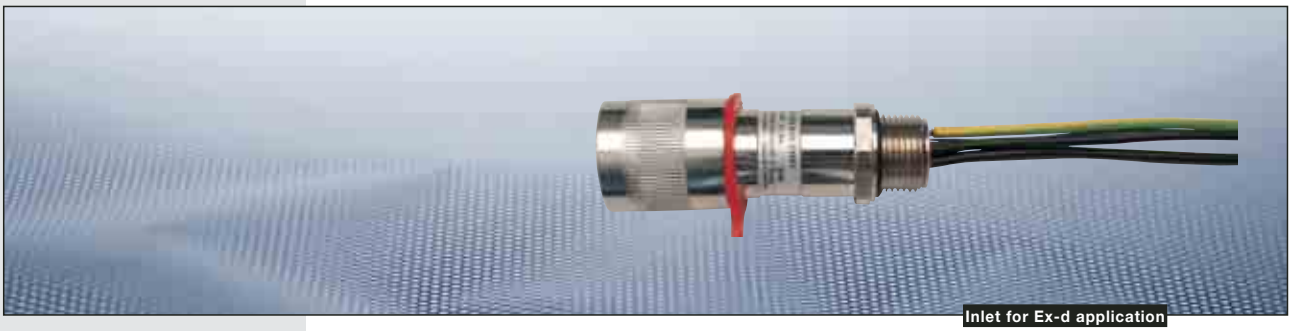
Inlet Volume > 2000 cm³

Technical detail	
eXLink Inlet Volume > 2000 cm³	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material*	Brass nickel plated or stainless steel SS 316 L
Rated voltage	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A
	DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A
	DC-3: 60 V / 0.5 A
Back-up fuse max. without thermal protection	10 A
Back-up fuse max. with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A)
	-55 °C to +75 °C (Rated current 2 A)
Storage temperature in original packing	-55 °C to +80 °C
Degree of protection acc. EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	Metal
Terminal cross section	30 cm multi wire: 1.5 mm² | 2.5 mm²
Cable entries	M20 x 1.5 | 1/2" NPT

* The metal version can be mounted in flameproof enclosures cat. „d" or increased safety, cat. „e". The flameproof enclosure may exceed the max. inlet volume of 2000 cm³ (V > 2000 cm³).



Inlet Volume > 2000 cm³



Inlet for Ex-d application

Ordering code Inlet Volume > 2000 cm³

6 = Inlet Volume > 2000 cm³

GHG	57	X	6	X	XX	R	X	X	01

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = 30 cm multi wire 1.5 mm²
2 = 30 cm multi wire 2.5 mm²

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

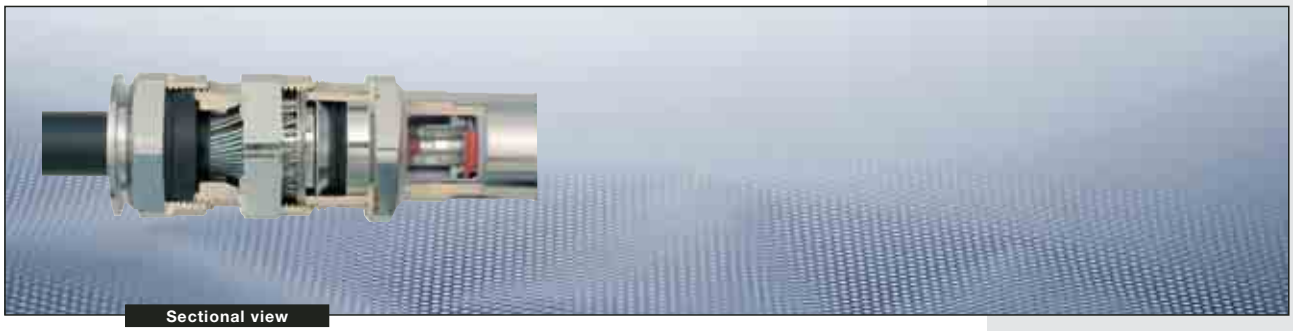
**only for 2/3-pol + PE
*only for 4-pol + PE

5. Material
1 = Stainless steel with thread M20
3 = Brass nickel plated with thread M20
5 = Stainless steel with thread NPT
6 = Brass nickel plated with thread NPT

6. Accessories
0 = without locking device
9 = with locking device

Ordering details for inlet in stainless steel V > 2000 cm³

Voltage	Pole	Coding	Type of protection	Thread M20 x 1,5 Order No.	1/2" NPT Order No.
BUS	3-pole + PA	2 h	30 cm multi wire 1.5 mm²	**GHG 571 6102 R1001**	**GHG 571 6102 R5001**
110 V AC	2-pole + PE	4 h	30 cm multi wire 1.5 mm²	**GHG 571 6104 R1001**	**GHG 571 6104 R5001**
110 V AC	2-pole + PE	4 h	30 cm multi wire 2.5 mm²	**GHG 571 6204 R1001**	**GHG 571 6204 R5001**
24 V DC	4-pole + PE	5 h	30 cm multi wire 1.5 mm²	**GHG 574 6105 R1001**	**GHG 574 6105 R5001**
24 V DC	4-pole + PE	5 h	30 cm multi wire 2.5 mm²	**GHG 574 6205 R1001**	**GHG 574 6205 R5001**
230 V AC	2-pole + PE	6 h	30 cm multi wire 1.5 mm²	**GHG 571 6106 R1001**	**GHG 571 6106 R5001**
230 V AC	2-pole + PE	6 h	30 cm multi wire 2.5 mm²	**GHG 571 6206 R1001**	**GHG 571 6206 R5001**
24 V DC	4-pole	8 h	30 cm multi wire 1.5 mm²	**GHG 571 6108 R1001**	**GHG 571 6108 R5001**
24 V DC	4-pole	8 h	30 cm multi wire 2.5 mm²	**GHG 571 6208 R1001**	**GHG 571 6208 R5001**
230 V AC	4-pole + PE	10 h	30 cm multi wire 1.5 mm²	**GHG 574 6110 R1001**	**GHG 574 6110 R5001**
230 V AC	4-pole + PE	10 h	30 cm multi wire 2.5 mm²	**GHG 574 6210 R1001**	**GHG 574 6210 R5001**
24 V AC	2-pole + PE	12 h	30 cm multi wire 1.5 mm²	**GHG 571 6112 R1001**	**GHG 571 6112 R5001**
24 V AC			wire 2.5 mm²	**GHG**	**R5001**

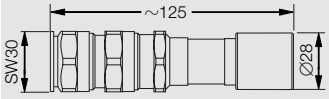


Sectional view

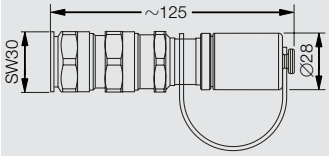
EXPLOSION PROTECTED CONNECTOR eXLink

Plug and connector for armoured cables

Technical detail	
eXLink plug and connector for armoured cables	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6
EC-Type Examination Certificate	PTB 03 ATEX 1016 X
Enclosure material	Brass nickel plated or stainless steel SS 316 L
Rated voltage	
Crimp connection	AC to 250 V, 50/60 Hz | DC to 60 V
Cage clamp	AC to 250 V, 50/60 Hz | DC to 60 V
Rated current	max. 10 A
Switching capacity acc. EN 61 984	AC: 250 V / 10 A
	DC: 60 V / 2.5 A
Switching capacity acc. EN 60 947-4	AC-3: 250 V / 1 A
	DC-3: 60 V / 0.5 A
Back-up fuse max.	
without thermal protection	10 A
Back-up fuse max.	
with thermal protection	20 A gL
Frequency range	0-100 MHz, fast Ethernet kompatible
Transient response	
acc. to TIA/EIA-568-B.2 Category 5e	to 100 MBaud
Permissible ambient temperature	-55 °C to +40 °C (Rated current 10 A)
Extended temperature range	-55 °C to +75 °C (Rated current 2 A)
Storage temperature	
in original packing	-55 °C to +80 °C
Degree of protection acc. EN 60529	IP66/IP 68 with closed and locked protective caps or duly pluged and locked components
Insulation class acc. EN 60598	I
Terminal cross section	Crimp 1.5 mm²: 0.75 - 1.5 mm²
	Crimp 2.5 mm²: 1.5 - 2.5 mm²
Cable dimensions	
Outer sheath	Ø 12 - 21 mm
Inner sheath	Ø 8,5 - 16 mm
Armour	Ø 0 - 1,5 mm

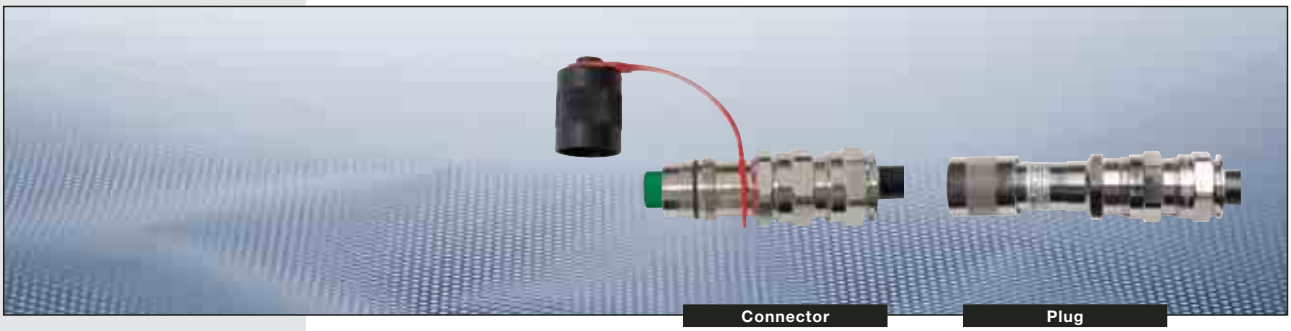


Armoured plug



Armoured connector

Dimensions in mm



Ordering code Plug and connector for armoured cables

3 = Connector
7 = Plug

GHG	57	X	X	X	X	X	R	X	X	0	X

1. Version
1 = 2/3-pole + PE
4 = 4-pole + PE

3. Connection technology
1 = to 1.5 mm² Crimp
2 = to 2.5 mm² Crimp

4. Coding
02 = 2 h**
04 = 4 h**
05 = 5 h*
06 = 6 h**
08 = 8 h**
10 = 10 h*
12 = 12 h**

**only for 2/3-pol + PE
*only for 4-pol + PE

5. Material
2 = Stainless steel for armoured cables
4 = Brass nickel plated for armoured cables

6. Accessories
0 = without locking device
8 = Plug with protection cap
9 = with locking device

7. Diameter of connection cable
1 = 12 - 21 mm

Ordering details stainless steel for armoured cables

Voltage	Pole	Coding	Type of connection	Thread Plug Order No.	Connector Order No.
BUS	3-pole + PA	2 h	Crimp 1.5 mm²	**GHG 571 7102 R2001**	**GHG 571 3102 R2001**
110 V AC	2-pole + PE	4 h	Crimp 1.5 mm²	**GHG 571 7104 R2001**	**GHG 571 3104 R2001**
110 V AC	2-pole + PE	4 h	Crimp 2.5 mm²	**GHG 571 7204 R2001**	**GHG 571 3204 R2001**
24 V DC	4-pole + PE	5 h	Crimp 1.5 mm²	**GHG 574 7105 R2001**	**GHG 574 3105 R2001**
24 V DC	4-pole + PE	5 h	Crimp 2.5 mm²	**GHG 574 7205 R2001**	**GHG 574 3205 R2001**
230 V AC	2-pole + PE	6 h	Crimp 1.5 mm²	**GHG 571 7106 R2001**	**GHG 571 3106 R2001**
230 V AC	2-pole + PE	6 h	Crimp 2.5 mm²	**GHG 571 7206 R2001**	**GHG 571 3206 R2001**
24 V DC	4-pole	8 h	Crimp 1.5 mm²	**GHG 571 7108 R2001**	**GHG 571 3108 R2001**
24 V DC	4-pole	8 h	Crimp 2.5 mm²	**GHG 571 7208 R2001**	**GHG 571 3208 R2001**
230 V AC	4-pole + PE	10 h	Crimp 1.5 mm²	**GHG 574 7110 R2001**	**GHG 574 3110 R2001**
230 V AC	4-pole + PE	10 h	Crimp 2.5 mm²	**GHG 574 7210 R2001**	**GHG 574 3210 R2001**
24 V AC	2-pole + PE	12 h	Crimp 1.5 mm²	**GHG 571 7112 R2001**	**GHG 571 3112 R2001**
24 V AC			2.5 mm²	**GHG**	**R2001**

INSTALLATION TECHNOLOGY MADE EASY –

Pre-assembled junction boxes/terminal boxes/cable with eXLink

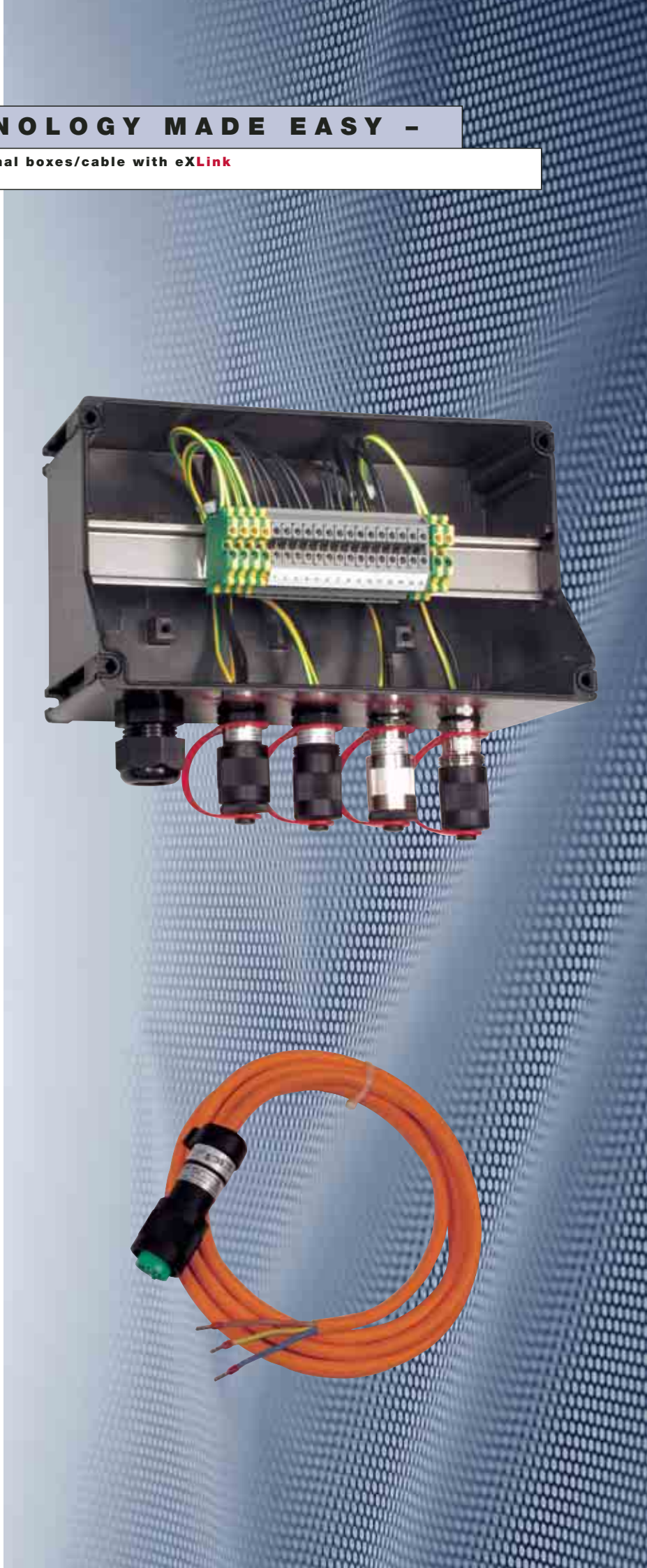
Each user can enjoy the benefits of the **eXLink** with the pre-assembled branching boxes without having to first perform additional wiring work.

Typical applications such as energy distribution, power supply for modules or bus technology can be performed at a reasonable price.

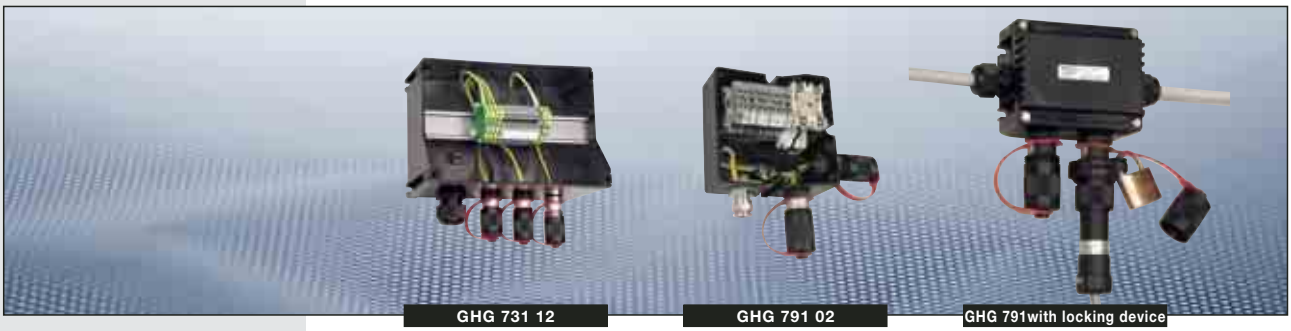
For example, a control unit can be quickly and safely connected to a pre-assembled **eXLink** terminal box and disconnected using **eXLink** plugs, leading to cost and time savings during servicing and repair work. An additional safety switch is no longer required.

If terminal boxes are used for distributing bus cables, these can also be plugged in "hot" with **eXLink**. This makes diagnosis or re-configuration much easier. There is no need to waste time isolating devices, and possibly having to shut down a machine in the process.

Cables with **eXLink** plugs or connectors can be ready made for your special requirements in different lenghts and versions. Therewith you can immediately use all benefits of the **eXLink** system.



Pre-assembled eXLink connectors wired on terminals
connection types up to 4-pole + PE
Nominal current up to 10 A per connector
Compatible with Ethernet® and Fast Ethernet®-Bus



EXPLOSION PROTECTED TERMINAL BOXES eXLink

| 791 01 | 791 02 | 731 12 |

Technical detail	
Type 791 01	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T52 °C
Type of protection	EEx de IIC T6 | EEx ia IIC T6
EC-Type Examination Certificate	PTB 00 ATEX 3108
Rated voltage	690 V
Rated current	depends on connection diameter
Degree of protection EN 60529	IP 66
Enclosure material	Polyamide
Terminal cross section	max. 4 x 4 mm² / PE 4 x 2.5 mm² (multi-wire)
	max. 2 x 6 mm²* / PE 4 x 4 mm² (single-wire)
	*or 2 x 6 mm² + 1 x 2.5 mm²
Weight	approx. 0,5 kg

Technical detail	
Type 791 02	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D T58 °C
Type of protection	EEx de IIC T6 | EEx ia IIC T6
EC-Type Examination Certificate	PTB 00 ATEX 3108
Rated voltage	690 V
Rated current	depends on connection diameter
Degree of protection EN 60529	IP 66
Enclosure material	Polyamide
Terminal cross section	max. 4 x 4 mm² / PE 4 x 2.5 mm² (multi-wire)
	max. 2 x 6 mm²* / PE 4 x 4 mm² (single-wire)
	*or 2 x 6 mm² + 1 x 2.5 mm²
Weight	approx. 0.7 kg

Technical detail	
Type 731 12	
Marking to 94/9/EC	Ex II 2 G | Ex II 2 D*
Type of protection	EEx e II T6 | EEx ia IIC T6 | EEx e [ia] IIC T6
EC-Type Examination Certificate	PTB 99 ATEX 1044
Rated voltage	690 V
Rated current	depends on connection diameter
Degree of protection EN 60529	IP 66
Enclosure material	Glass-fibre reinforced polyester
Terminal cross section	max. 4 x 4 mm² / PE 4 x 2.5 mm² (multi-wire)
	max. 2 x 6 mm²* / PE 4 x 4 mm² (single-wire)
	*or 2 x 6 mm² + 1 x 2.5 mm²
Weight	approx. 1.4 kg

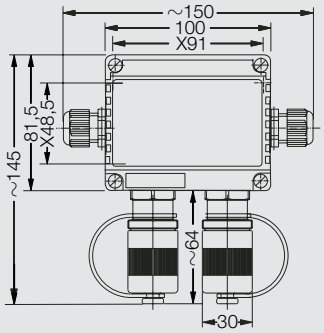
* II 2 D applied for

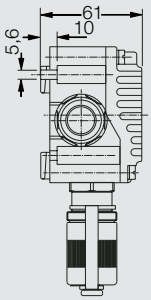

GHG 791with locking device

Ordering details for ready made, prewired terminal boxes

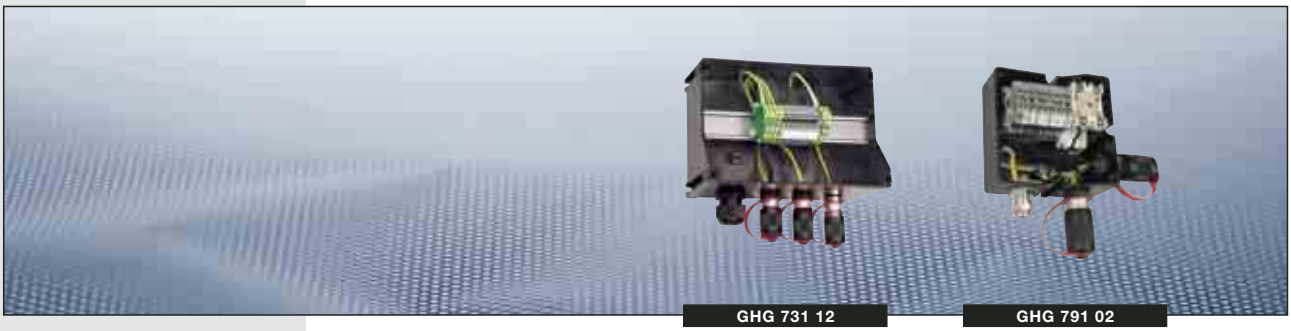
Coding	Components	Thread	Terminals	Order-No.
230V AC 10h	1 x Receptacle with locking device GHG 574 8110 R 0901	1x M25	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5210**
230 V AC 10h	2 x Receptacle GHG 574 8210 R 0001	2x M20	4 x 2.5mm² 1 x PE/PA	**GHG 7910 101 R 5006**
230 V AC 10h	2x Receptacle GHG 574 8210 R 3001	2 x M20 thread plug	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5106**
230 V AC 6h	1 x Receptacle GHG 571 8106 R 0002	1 x M20	2 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5214**
24 V DC 8h	1 x Receptacle GHG 571 8108 R 0001	1 x M20	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5202**
24 V DC 8h	1 x Receptacle GHG 571 8108 R 0001	1 x M20	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5213**
230 V AC 6h	1 x Receptacle GHG 571 8106 R 0001	2 x M20 1 x M20 thread plug	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5206**
24 V AC 12h	1 x Receptacle GHG 571 8112 R 0001	2 x M20 3 x M20 thread plug	2 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5212**
24 V DC 8h	1 x Receptacle GHG 571 8208 R 0001	2 x M20 1 x M20 thread plug	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5208**
24 V DC 8h	1 x Receptacle GHG 571 8108 R 0001	2 x M20 1 x M20 thread plug	4 x 2.5mm² 1 x PE/PA	**GHG 791 0101 R 5201**
230 V AC 10h	1 x Receptacle GHG5748110R0001	1 x M25	4 x 2.5mm² 1x PE/PA	**GHG 791 0101 R 5203**

Other types on request.



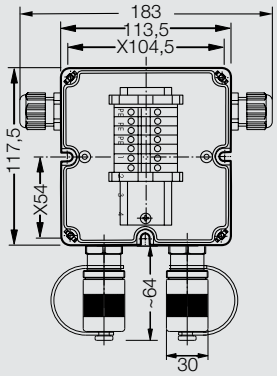


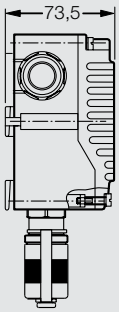
Type 791 01



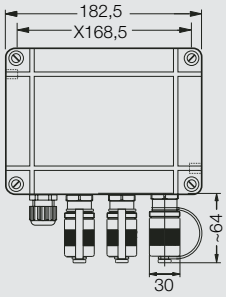
EXPLOSION PROTECTED TERMINAL BOXES eXLink

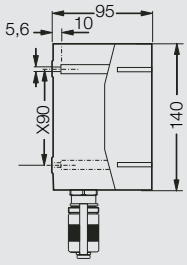
GHG 791 02 | GHG 731 12





Type 791 02





Type 731 12

Dimensions in mm

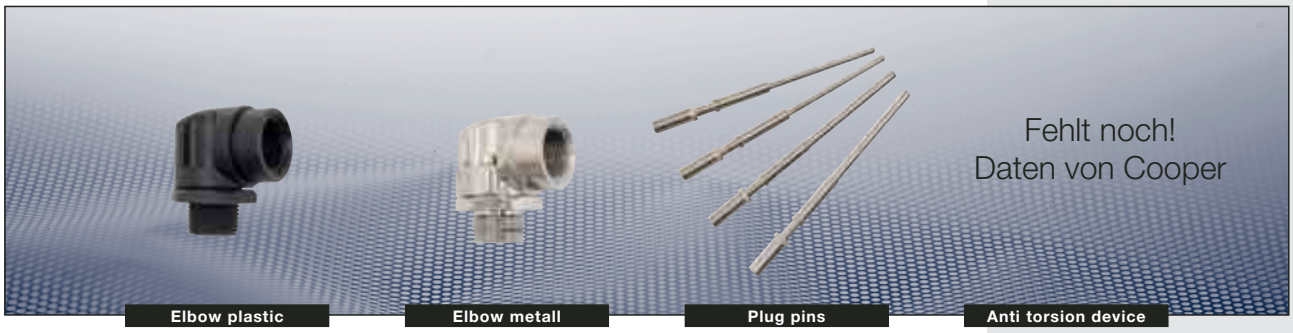
Ordering details for ready made, prewired terminal boxes GHG 791 02

Coding	Components	Thread	Terminals	Order-No.
24 V DC 8h / 12h	1 x Receptacle GHG 571 8108 R 0001 1 x Receptacle GHG 571 8112 R 0001	1 x M20 blue	12 x 2.5mm² 1 x PE/PA	**GHG 791 0201 R 5002**
230 V AC 6h	1 x Receptacle GHG 571 8106 R 0001	1 x M25	5 x 2.5mm² 2x PE/PA	**GHG 791 0201 R 5001**

Ordering details for ready made, prewired terminal boxes GHG 731 12

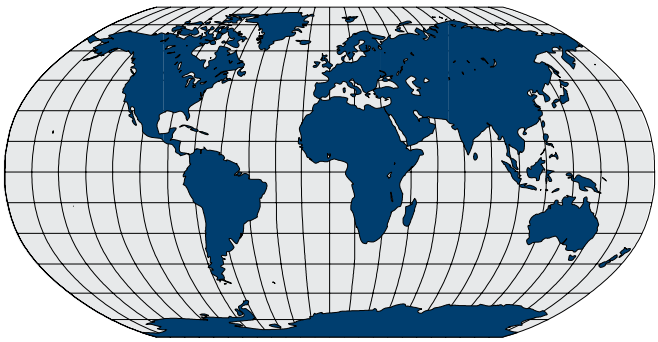
Coding	Components	Thread	Terminals	Order-No.
24 V DC 8h	3 x Receptacle GHG 571 8108 R 0001	1 x M25 blue	12 x 2.5mm² 1 x PE/PA	**GHG 731 1201 R 5001**

Other types on request



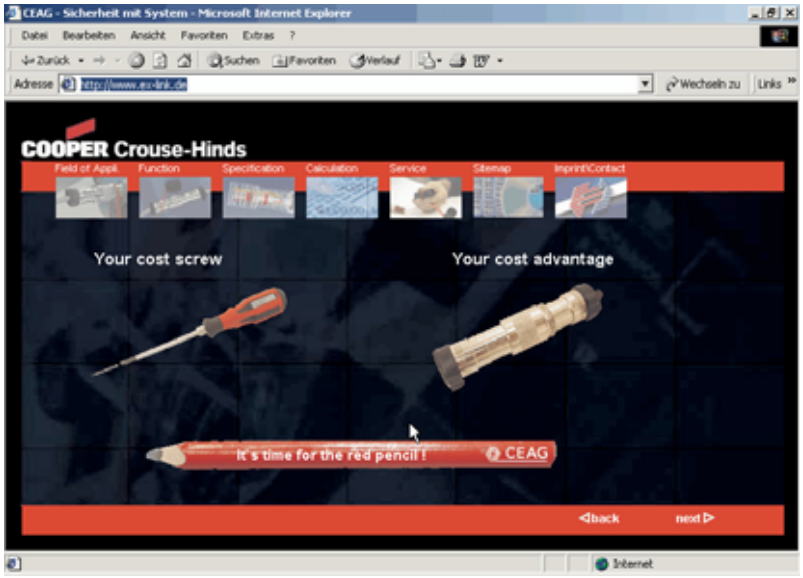
Ordering details

Type	BE	Order No.
Socket contacts 1.5 mm², 4-pole (4 pcs.)	1	**GHG 570 1905 R0001**
Socket contacts 2.5 mm², 4-pole (4 pcs.)	1	**GHG 570 1905 R0002**
Crimp tool for eXLink	1	**GHG 570 1902 R0001**
Plastic protection cap connector/receptacle	1	**GHG 570 1903 R0001**
Plastic protection cap plug/inlet	1	**GHG 570 1903 R0002**
Brass protection cap connector/receptacle	1	**GHG 570 1903 R0003**
Brass protection cap plug/inlet	1	**GHG 570 1903 R0004**
Safety plate compl. for 4 + 1-pole	1	**GHG 570 1901 R0001**
Plug pins set 1.5 mm², 3-pole + PE (PE leading AC)	1	**GHG 570 1904 R0003**
Plug pins set 1.5 mm², 4-pole (lagging DC)	1	**GHG 570 1904 R0001**
Plug pins set 2.5 mm², 3-pole + PE (PE leading AC)	1	**GHG 570 1904 R0004**
Plug pins set 2.5 mm², 4-pole (lagging DC)	1	**GHG 570 1904 R0002**
Elbow plastic	1	**GHG 571 1000 R0001**
Elbow brass nickel plated	1	**GHG 571 1000 R3001**
Screw driver for cage clamp	1	**GHG 570 1908 R0001**
Strain relief and seal 4 - 7 mm	1	**GHG 570 1907 R0001**
Strain relief and seal 8 - 11 mm	1	**GHG 570 1907 R0002**
Anti torsion device	1	**GHG 570 1901 R0001**



www.eX-Link.de

eXLink – advantages a simple mouse click



eXLink in the Internet
All advantages on the connector system **eXLink** can be found online under:

www.eX-Link.de

Here you'll find examples of practical applications, explanatory animations and technical data which is difficult to explain in print media. There you can have a look inside the connectors to see how they work.
Contact our specialists:
You'll get competent advice and a detailed cost-benefit analysis. The advantage of the system is found especially in the cost calculation. Using your own system data you can obtain the payback time and time saving black on white.

Besides the stated applications there are much further possibilitis to be had. Regardless of whether it's a question of special coding, pre-assembled connectors or enclosure material – we have a satisfactory answer to almost all questions.

Test us: We're just a mouse-click away. Send your email to:

eXLink@ceag.de

We'll answer quickly and comprehensively.

COOPER Crouse-Hinds

3008000201 1/5/02.05/SL
Technical details subject to alteration.
Valid from February 2004

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