

# Manual Cables and terminators

ATEX version only

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## Product Description

The cables and terminators Type XEN-84... are built according to ATEX Directive 2014/34/EU and UKCA SI 2016 No. 1107 (as amended) Category 3G for local installation in **ATEX zone 2**.

## Applied Standards

The cables and terminators are in conformity with Directive 2014/34/EU (ATEX 114) and UKCA SI 2016 No. 1107 (as amended) according to the following harmonized/designated standards:

EN 60079-0:2018

EN 60079-7:2015/A1:2018

## Marking

The component is marked according to European Directive 2014/34/EU and UKCA SI 2016 No. 1107 (as amended):



**II 3G Ex ec IIC Gc U**

**Ta = -20°C to +55°C**

In which:

II	:	Equipment group II for use above ground
3G	:	Category 3G for use in zone 2
Ex ec	:	Type of protection increased safety
IIC	:	Gasgroup IIC, for use in IIA, IIB and IIC environments
Gc	:	Component protection level Gc for use in zone 2
U	:	Component approval
Ta	:	Ambient temperature range

The following cable and terminator types are covered by this manual:

XEN-84005 Cable 0.5 m male M12 - female M12 connector

XEN-84010 Cable 1 m male M12 - female M12 connector

XEN-84020 Cable 2 m male M12 - female M12 connectors

XEN-84040 Cable 4 m male M12 -female M12 connectors

XEN-84100 Cable 10 m male M12 - femaleM12 connectors

XEN-84200 Terminator set 120 Ohm male M12 and female M12 connector.

## Specific Conditions of Use

- The dedicated cables and terminators shall be used only with intelligent gas sensors Type XEN-5320-CAN.
- The connectors, terminators and cables shall be protected from UV light when installed.
- Sensor and connectors comply with low risk for mechanical danger, which means that they shall be protected from any high risk of mechanical danger.
- Do not connect or disconnect connectors when energized.
- Potential electrostatic charging hazard, connectors shall only be cleaned with a damp cloth.
- Tightening torque for the connectors is 0.49 Nm to 0.6 Nm.
- Cable gland is an integral part of the sensor and cannot be replaced.

## Safety references

Devices in hazardous area must be installed, supervised, maintained and kept in good conditions by the owner of the plant. Part of this is an inspection after the transport to identify possible damages caused during the transport.

Only qualified workers are allowed to install and dismount as well as doing maintenance work on the extension cables and terminators. All universally valid rules and laws and other binding directives for the safety of people and environment must be kept.



WARNING – DO NOT CONNECT OR DISCONNECT CONNECTORS WHEN ENERGIZED

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – CLEAN ONLY WITH A DAMP CLOTH

## Mounting

The extension cables and terminators must be protected against aggressive and unusual environmental conditions which could cause damages on the component. This could be e.g. acids or high and low temperatures other than the allowed ambient temperature range.

For installation, please refer to EN 60079-14 and other valid standards and directivities on the place of erection.

## Installation

- Observe all specific conditions of use above!
- Protect the M12 connectors efficiently against damage.
- The cables must be firmly laid and effectively protected against damage.
- Connectors must always be closed with a counterpart. They may be left open in the field only briefly for servicing purposes.

## Operation, Maintenance and Elimination of Disturbances

Devices in hazardous area must be installed, supervised, maintained and kept in good conditions by the owner of the plant. For information, refer to EN 60079-17. Only skilled workers are allowed to do maintenance and the elimination of disturbance work.

Before doing this work, the safety requirements must be kept!

For elimination of disturbances, only original spare parts after consulting with RS Products Solutions B.V. are allowed to use. Before using them again, the safety requirements must be kept.

For information about operation, maintenance and elimination of disturbances for the internal components, please refer to the individual manuals of these components.

### **Maintenance and repair**

The cables and terminators shall not be modified nor can be repaired. In case of a fault please contact the manufacturer.

### **Service address**

RS Products Solutions B.V.  
Distributieweg 58  
2645 EJ Delfgauw