

Press contact:

**CONEC Elektronische Bauelemente GmbH**

Katja Schade

Phone: 02941/765-350

Fax: 02941/765-65

Ostenfeldmark 16

D-59557 Lippstadt

www.conec.com

**CONEC**<sup>®</sup>  
TECHNOLOGY IN CONNECTORS™

# Press Release 01.07/2016

Title: CONEC ISOBUS – the databus connector for agricultural and construction machines



With increasing demands on the efficiency in agriculture, precision farming is becoming more and more important. Precision farming stands for the targeted management of utilized agricultural land, e.g. the individual application of fertilizers and plant protection products depending on the position of the utilized land.

To ensure the necessary communication between tractor, equipment and agricultural management software, the non-proprietary ISOBUS is used. ISOBUS is specified in standard ISO 11783-2 and describes the BUS including the connectors used with it.

To extend the CONEC product range in the field of connection solutions for agricultural and construction machinery, the connectors for ISOBUS are included in the ready-made and overmoulded design.

The overmoulded ISOBUS-series is available as male and female version. The contact carrier has the 9-pin contact image required by the standard. At the connection side, the female connector comes with a quick release bayonet locking. Due to the overmould, continuous IP67 protection of the housing up to the hybrid cable is ensured.

Currently, two different cable variants are available which are specifically designed for agricultural applications. The cable variants differ in the cross-section of the stranded wires for ground and power with 6 mm<sup>2</sup> and 10 mm<sup>2</sup>.

At the connection side, the female connector comes with a quick release bayonet coupling. CONEC has developed a dust protection cap for the female version and uses it to protect the contact area against dirt and moisture. By default, the dust protection cap is connected to the connector by means of a captive stainless steel rope.

The CONEC ISOBUS connector assembly is plugged in on the tractor in the so-called parking socket. In the parking socket, the bayonet coupling is overridden and the connector is locked in place with a spring bracket.



*In case of publication*

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In unmated condition, the parking socket is protected against moisture and dirt by a protective cap with integrated seal. To protect the seal of the protective cap in mated condition, the ISOBUS connector is executed with a landing plate. The standard version is round, optionally there is also a landing plate with flattened outer surface. Upon request, the connectors can be supplied completely without landing plate.

At the connection side, the female connector comes with a quick release bayonet locking. CONEC has developed a dust protection cap for the female version and uses it to protect the contact area against dirt and moisture. By default, the dust protection cap is connected to the connector by means of a captive stainless steel rope.

The ISOBUS connector series is designed both as open end cable and as connecting cable.

CONEC provides a version with corrugated pipe for better protection of the hybrid cable. In this version, the hybrid cable runs in a corrugated pipe which is integrated in the overmould geometry.

Productdetails:

<p><b>Benefits:</b></p> <ul style="list-style-type: none"> <li>• Robust and ergonomic design</li> <li>• Version with or without landing plate</li> <li>• Versions in two pipe qualities</li> <li>• Version with additional corrugated pipe</li> <li>• Standard with captive dust cap (female connector)</li> <li>• Due to the overmould, continuous IP67 protection of the housing up to the hybrid cable is ensured</li> <li>• Use in harsh environments</li> </ul>	<p><b>Fields of application:</b></p> <ul style="list-style-type: none"> <li>• Agricultural machines</li> <li>• Construction machines</li> <li>• Process control</li> </ul>
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**Technical data:**

	Hybrid cable type 600P	Hybrid cable type 1000P
Current rating	6 mm <sup>2</sup> : 25 A / 40 ° C 2.5 mm <sup>2</sup> : 15 A / 40 ° C 0.5 mm <sup>2</sup> : 5 A / 40 ° C	10 mm <sup>2</sup> : 35 A / 40 ° C 2.5 mm <sup>2</sup> : 15 A / 40 ° C 0.5 mm <sup>2</sup> : 5 A / 40 ° C
Type of protection	IP67	
Terminal cross section	2 x 6 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> + 4 x 0.5 mm <sup>2</sup>	2 x 10 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> + 4 x 0.5 mm <sup>2</sup>
Mating cycles	> 100	
Ambient temperature plug	-40 ° C... + 85 ° C	
Ambient temperature cable	Fixed: -40 ° C... + 80 ° C Flexible: -20 ° C... + 80 ° C	Fixed: -40 ° C... + 80 ° C Flexible: -20 ° C... + 80 ° C
Ambient temperature corrugated pipe	-40 ° C... + 120 ° C (3000 h)	

*Im Fall einer Veröffentlichung freuen wir uns über ein Belegexemplar, gern auch als PDF.*