

## b-ISOBUS Cable

### Product overview

This cable is the optimal connection cable for ISOBUS implements. It is suitable for the communication and the supply of electronics of the implement.

#### Overmolded connector

Highers the protection class to IP67

Deposit for the cover plate of the socket

Captive predecive cover

#### No cable manufacture necessary

The insert molded cable is available in different variants and lengths and error-prone cable manufacture

#### Fitting to the ambient conditions

Robust cable coating (PUR) against Oil, UV or greases

#### Various wire cross sections

Cross sections of 2,5, 6 or 10 mm<sup>2</sup> for the supply of electronics on the implement

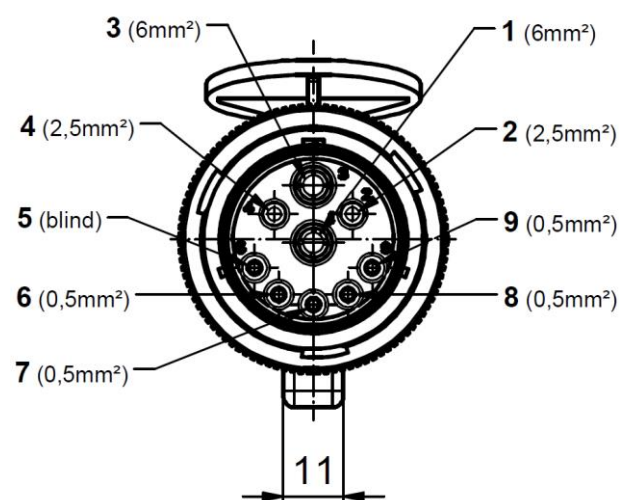
#### Shielded Cable

Reduced susceptibility to influences



Illustration 1: b-ISOBUS Cable with captive cover

### Pin Assignment



| PIN | Contact | Wire cross section           | Wire color | Name    |
|-----|---------|------------------------------|------------|---------|
| 1   | A       | 2,5 / 6 / 10 mm <sup>2</sup> | Black      | GND     |
| 2   | B       | 2,5 mm <sup>2</sup>          | Black      | ECU_GND |
| 3   | A       | 2,5 / 6 / 10 mm <sup>2</sup> | Red        | PWR     |
| 4   | B       | 2,5 mm <sup>2</sup>          | Red        | ECU_PWR |
| 5   | C       | n.c.                         |            | TBC_DIS |
| 6   | C       | 0,5 mm <sup>2</sup>          | Red        | TBC_PWR |
| 7   | C       | 0,5 mm <sup>2</sup>          | Black      | TBC_RTN |
| 8   | C       | 0,5 mm <sup>2</sup>          | Yellow     | CAN_H   |
| 9   | C       | 0,5 mm <sup>2</sup>          | Green      | CAN_L   |

## Technical specification

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Current rating</b>      | 2,5 / 6 / 10mm <sup>2</sup> : 15 / 25 / 35 A at 40°C<br>2,5mm <sup>2</sup> : 15 A bei 40°C<br>0,5mm <sup>2</sup> : 5 A bei 40°C |
| <b>Protection class</b>    | IP 67, in mated condition                                                                                                       |
| <b>Ambient temperature</b> | -40°C ... +85°C                                                                                                                 |
| <b>Connector</b>           |                                                                                                                                 |
| <b>Ambient temperature</b> | fixed: -40°C ... +85°C                                                                                                          |
| <b>Cable</b>               | moved: -20°C ... +85°C                                                                                                          |
| <b>Mating cycles</b>       | > 100                                                                                                                           |
| <b>Wire cross section</b>  | 2 x 2,5 / 6 / 10mm <sup>2</sup><br>2 x 2,5mm <sup>2</sup><br>4 x 0,5mm <sup>2</sup>                                             |
| <b>Housing</b>             | Deutsch HDP26-24-91SE-L015, Black                                                                                               |

## Materials

|                         |                       |
|-------------------------|-----------------------|
| <b>Contact</b>          | CuZn                  |
| <b>Contact plating</b>  | Ni                    |
| <b>Contact carrier</b>  | Thermoplast           |
| <b>Landing plate</b>    | PA6.6 UL94 V-0, Black |
| <b>Protective cover</b> | PA6.6 UL94 V-0, Black |
| <b>Overmolding</b>      | TPU, UL94 V-0, Black  |
| <b>Sealing</b>          | Silicon               |

## Cable structure

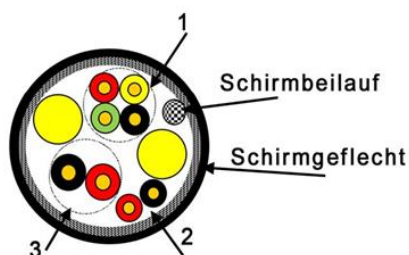
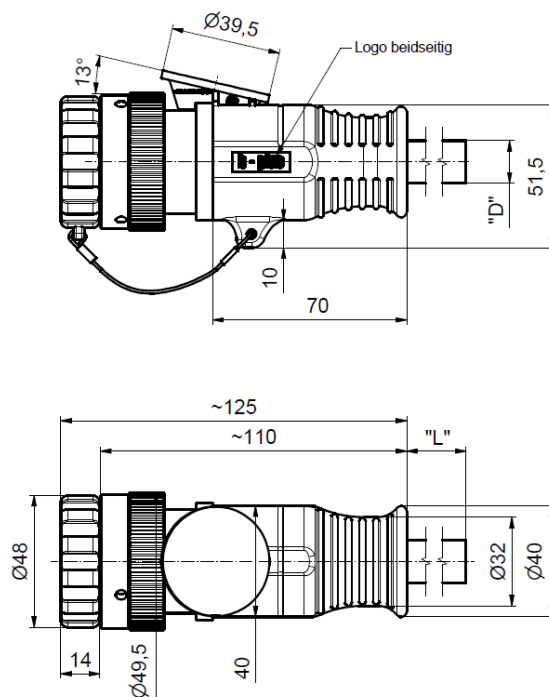


Illustration 2: Schirmbeilauf = shield drain, Schirmgeflecht = shield braid

- 1**  
Wire bundle (4 Li9Y 0,50 mm<sup>2</sup>) nom. 75 Ohm (L/L touching)\*  
Wire isolation: PP  
Wire colors: Black, Yellow, Green, Red
- 2**  
Wires LiY 2,50 mm<sup>2</sup> Wire isolation: PVC  
Wire colors: Black, Red
- 3**  
Wires LiY 2,5 / 6 / 10 mm<sup>2</sup> Wire isolation: PVC  
Wire color: Black, Red

## Dimensional drawing



## Ordering information

| Order-no.           | Description                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| B12093-ISO-001-0500 | ISOBUS-Cable - Socket 5m TPE-U(PUR) (4x0,5 / 2x2,5 / 2x6.0mm <sup>2</sup> ) open end                                                              |
| B12093-ISO-001-1000 | ISOBUS-Cable - Socket 10m TPE-U(PUR) (4x0,5 / 2x2,5 / 2x6.0mm <sup>2</sup> ) open end                                                             |
| B12093-ISO-011-0500 | ISOBUS-Cable - Socket 5m TPE-U(PUR) (4x0,5 / 2x2,5 / 2x10.0mm <sup>2</sup> ) open end                                                             |
| B12093-ISO-011-1000 | ISOBUS-Cable - Socket 10m TPE-U(PUR) (4x0,5 / 2x2,5 / 2x10.0mm <sup>2</sup> ) open end                                                            |
| B12093-ISO-0Z1-XXXX | X cable length in cm - Z cross section of power wire (0 = 2x6.0mm <sup>2</sup> - Standard, 1 = 2x10.0mm <sup>2</sup> , 3 = 2x2.5mm <sup>2</sup> ) |

Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. • Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. • Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. • Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. • Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. In case of doubts the German version of the document is binding. © b-plus GmbH • Nov-15 • Version: 1.1