# 8D1CH0015.11120-0

## 1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOSmotor Compact

## 2 Order data

| Order number | Short description | Figure |
|---|---|---|
| | **Supply cables** | |
| 8D1CH0015.11120-0 | ACOPOSmotor compact power supply cable, length 15 m, 2x 2.5 mm² + 1x (4x 0.34 mm²) + 1x (2x 0.34 mm²) + 1x 0.34 mm² + PA pipe 2.0 mm / 1.0 mm, 1x 9-pin female hybrid connector, can be used in cable drag chains |  |

Table 1: 8D1CH0015.11120-0 - Order data

## 3 Technical data

| Order number | 8D1CH0015.11120-0 |
|---|---|
| **General information** | |
| Cable cross section | 2x2.5 + 1x(4x0.34)St-C + 1x(2x0.34)C + 1x0.34qmm + PA pipe 2.0/1.0 |
| Durability | Oil resistant per DIN EN 60811-404<br>Halogen-free per DIN EN 60754-1<br>Flame-retardant per DIN EN IEC 60332-1-2<br>Hydrolysis resistance per DIN EN 50396<br>Microbial resistance per DIN EN 50396<br>Silicone-free / PWIS per VW PV 3.7.10 |
| Certification | E170315 cRUus AWM STYLE 20233 AWM I/II A/B 80°C 300 V FT1 [1)] |
| Certifications | |
| CE | Yes |
| UKCA | Yes |
| UL | cULus E225616<br>Power conversion equipment |
| cULus | In preparation |
| **Cable construction** | |
| Outer jacket | |
| Material | TPU, flame-retardant, halogen-free |
| Color | Orange similar to RAL 2003 |
| **Connector** | |
| Type | 9-pin female hybrid connector |
| Mating cycles | <500 |
| Contacts | 9 |
| Additional connectors | RJ45 |
| Degree of protection per EN 60529 | IP66/67 when connected |
| **Electrical properties** [1)] | |
| Nominal current | 20 A (power)<br>0.5 A (signal) |
| Operating voltage | Max. 58 VDC (power)<br>Max. 30 VDC (signal) |
| **Ambient conditions** [1)] | |
| Temperature | |
| Moving | -30°C to +80°C (drag chain: -20°C to +60°C) |
| Static | -40°C to +90°C |
| **Mechanical properties** [1)] | |
| Dimensions | |
| Length | 15 m |
| Diameter | 11.7 mm ±0.3 mm |
| Bend radius | |
| Single bend | ≥3x cable diameter |
| Moving | ≥12.5x cable diameter |

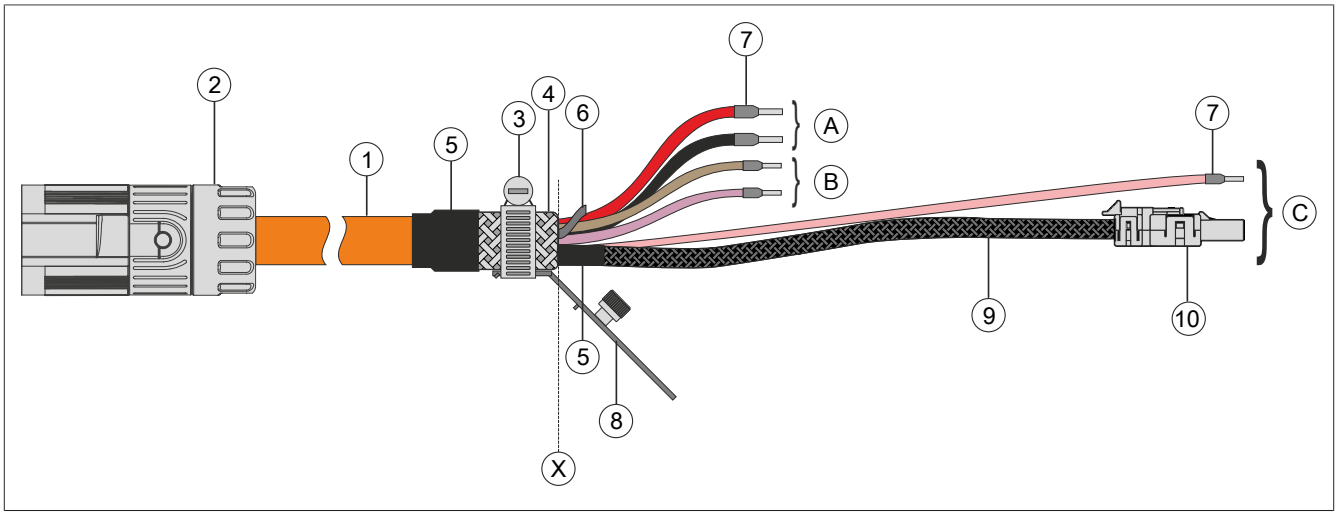
Table 2: 8D1CH0015.11120-0 - Technical data

| Order number | 8D1CH0015.11120-0 |
|---|---|
| Drag chain data | |
| Acceleration | 50 m/s² (depends on the length of the travel path) |
| Flex cycles | ≥3,000,000 |
| Velocity | Max. 300 m/min |
| Torsional strength | ±30°/m |
| Weight | 3.75 kg |

Table 2: 8D1CH0015.11120-0 - Technical data

1) Values refer to the raw cable being used.

# 4 Cable construction




| Pos. | Name | Note |
|---|---|---|
| 1 | Hybrid cable | 2x 2.5 mm² + 1x (4x 0.34 mm²) + 1x (2x 0.34 mm²) + 1x 0.34 mm² + PA tube |
| 2 | 9-pin female hybrid connector (female contact) | |
| 3 | Cable clamp | |
| 4 | Braided shield | |
| 5 | Self-adhesive heat shrink tubing | |
| 6 | Capillary line | |
| 7 | Wire end sleeve | |
| 8 | Shield fixing | |
| 9 | Braided sleeving | |
| 10 | Male RJ45 connector | |

Table 3: Hybrid cables - Cable construction

| Item | Quantity | Custom cable length from point x |
|---|---|---|
| A | 2 | 140 mm |
| B | 2 | 135 mm |
| C | 2 | 715 mm |

Table 4: Custom cable length

## 5 Cable diagram

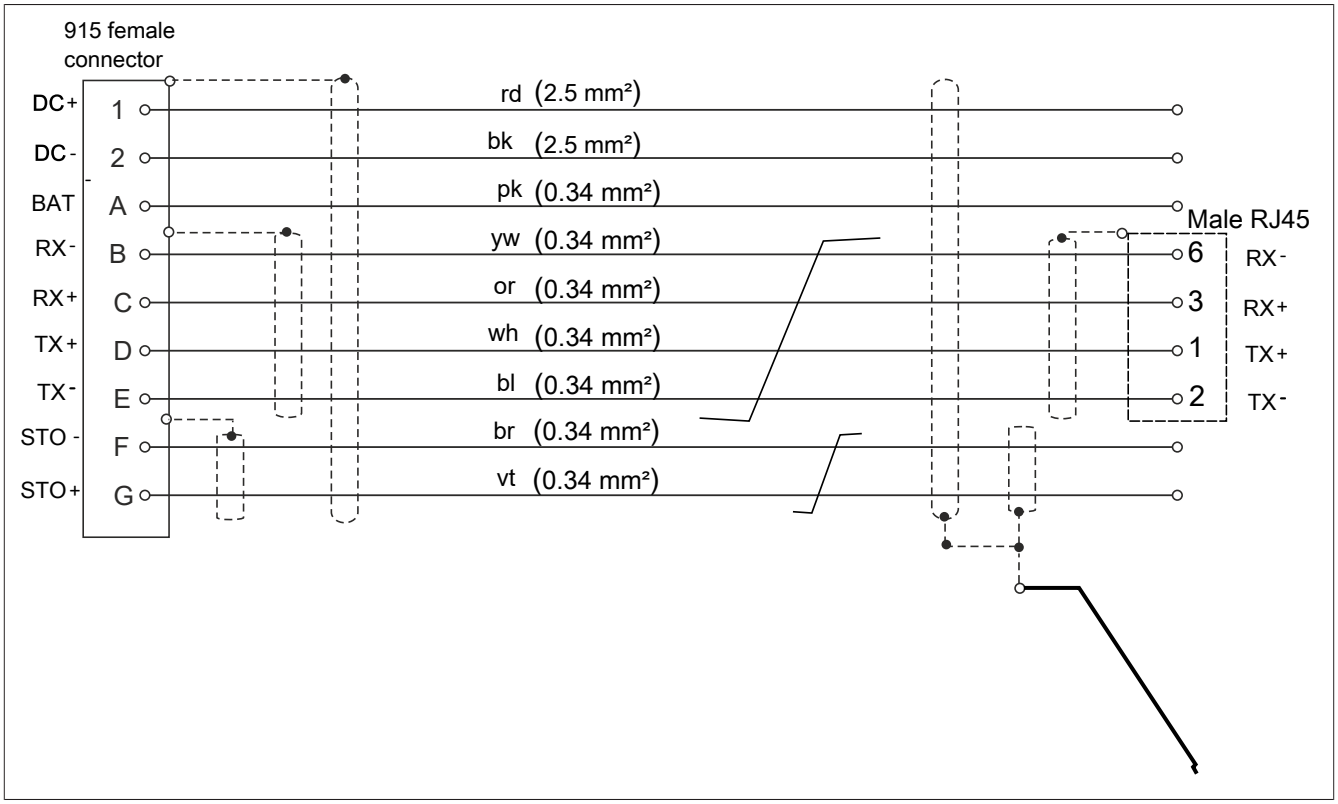
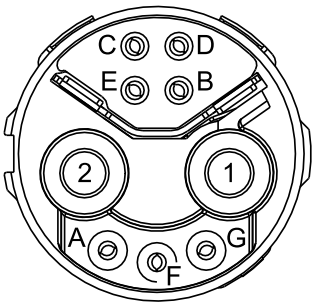
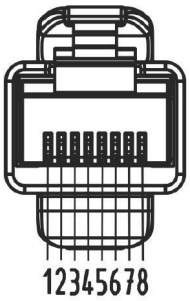



Figure 1: 8D1CHxxxx.11120-0 - Cable diagram

## 6 Pinout

| 915 connector 2+3+Bus female | Pin | Function | Color | Pin | RJ45 connector |
|---|---|---|---|---|---|
|  | 1 | DC bus + | Red | --- |  |
| | 2 | DC bus - | Black | --- | |
| | A | BAT[1)] | Pink | --- | |
| | B | Receive signal inverted | --- | 6 | |
| | C | Receive signal | --- | 3 | |
| | D | Transmit signal | --- | 1 | |
| | E | Transmit signal inverted | --- | 2 | |
| | F | Enable signal - | Brown | --- | |
| | G | Enable signal + | Violet | --- | |



1) Function BAT is currently not supported. The open cable end must be insulated by the customer.