

# 8CCH0008.11220-1

## 1 General information

- Can be used in cable drag chains
- Cable for connection of ACOPOSremote / ACOPOSmotor drive systems to ACOPOSmulti 8BVE expansion modules
- Hybrid connector system for secure connections

## 2 Order data

| Order number     | Short description                                                                                                                                                                                                                                                                     | Figure                                                                                                      |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 8CCH0008.11220-1 | <b>8BVE / 8CVI connection cables</b><br>Hybrid cable for connecting 8BVE to 8CVI or 8DI, length 8 m, 2x 2x 0.34 mm <sup>2</sup> + 4x 0.75 mm <sup>2</sup> + 5x 2.5 mm <sup>2</sup> , 1x 15-pin female TYCO connector, connector insert rotated 180°, can be used in cable drag chains |  <p>No product image</p> |

Table 1: 8CCH0008.11220-1 - Order data

## 3 Technical data

| Order number               | 8CCH0008.11220-1                                                                                 |
|----------------------------|--------------------------------------------------------------------------------------------------|
| <b>General information</b> |                                                                                                  |
| Cable cross section        | 5x 2.5 mm <sup>2</sup> + 2x 2x 0.75 mm <sup>2</sup> + 2x 2x 0.34 mm <sup>2</sup> / 1.55- 100 VZN |
| Durability                 | In preparation                                                                                   |
| Certification              | E130266 cRUus AWM style 20234, 80°C, 1000 V and CSA C22.2 no. 210.2 I/II A/B, FT1 <sup>1)</sup>  |
| <b>Certifications</b>      |                                                                                                  |
| CE                         | Yes                                                                                              |
| UL                         | cULus E225616                                                                                    |
|                            | Power conversion equipment                                                                       |
| EAC                        | Yes                                                                                              |
| <b>Cable construction</b>  |                                                                                                  |
| <b>Power lines</b>         |                                                                                                  |
| Quantity                   | 5                                                                                                |
| Wire insulation            | PE                                                                                               |
| Wire colors                | Black, red, brown, white, yellow/green                                                           |
| Variant                    | Tinned copper stranded wire                                                                      |
| Cross section              | 2.5 mm <sup>2</sup>                                                                              |
| Shield                     | No                                                                                               |
| Stranding                  | No                                                                                               |
| <b>Signal line</b>         |                                                                                                  |
| Quantity                   | 4                                                                                                |
| Wire insulation            | PE                                                                                               |
| Wire colors                | Pink/Blue, violet/gray                                                                           |
| Variant                    | Tinned copper stranded wire                                                                      |
| Cross section              | 0.75 mm <sup>2</sup>                                                                             |
| Shield                     | No                                                                                               |
| Stranding                  | No                                                                                               |

Table 2: 8CCH0008.11220-1 - Technical data

| Order number                               | 8CCH0008.11220-1                                                                                                                           |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Data lines                                 |                                                                                                                                            |
| Quantity                                   | 4                                                                                                                                          |
| Wire insulation                            | PE                                                                                                                                         |
| Wire colors                                | VZN (cat. 5)                                                                                                                               |
| Variant                                    | Tinned copper stranded wire                                                                                                                |
| Cross section                              | 0.34 mm <sup>2</sup>                                                                                                                       |
| Shield                                     | Yes                                                                                                                                        |
| Stranding                                  | Yes                                                                                                                                        |
| Cable stranding                            | With filler elements and foil shield                                                                                                       |
| Cable shield                               | Tinned copper braiding, optical coverage > 85% and foil shield                                                                             |
| Outer jacket                               |                                                                                                                                            |
| Material                                   | PUR                                                                                                                                        |
| Color                                      | Orange, similar to RAL 2003 flat                                                                                                           |
| Labeling                                   | B&R 5x2.5 + 2x2x0.75 + (1x4x22AWG) * E130266 cRUus AWM<br>STYLE 20234 * AWM I/II A/B 80°C 1000 V FT1 * "internal lot number" <sup>1)</sup> |
| <b>Connector</b>                           |                                                                                                                                            |
| Type                                       | 15-pin female TYCO connector                                                                                                               |
| Mating cycles                              | Max. 20                                                                                                                                    |
| Contacts                                   | 15                                                                                                                                         |
| Degree of protection per EN 60529          | IP65 when connected                                                                                                                        |
| <b>Electrical properties <sup>1)</sup></b> |                                                                                                                                            |
| Operating voltage                          | Power lines: ≤1000 V<br>Signal lines: ≤1000 V<br>Data lines: ≤100 V                                                                        |
| Test voltage                               |                                                                                                                                            |
| Wire - Wire                                | 2.5 mm <sup>2</sup> : 3 kV<br>0.75 mm <sup>2</sup> : 2 kV<br>0.34 mm <sup>2</sup> : 2 kV                                                   |
| Wire - Shield                              | 2.5 mm <sup>2</sup> : 3 kV<br>0.75 mm <sup>2</sup> : 1 kV<br>0.34 mm <sup>2</sup> : 1 kV                                                   |
| Current-carrying capacity                  | 20 A                                                                                                                                       |
| Conductor resistance                       |                                                                                                                                            |
| Power lines                                | ≤8 Ω/km                                                                                                                                    |
| Signal line                                | ≤26 Ω/km                                                                                                                                   |
| Data lines                                 | ≤56 Ω/km                                                                                                                                   |
| Insulation resistance                      | ≥500 MΩ*km                                                                                                                                 |
| <b>Ambient conditions <sup>1)</sup></b>    |                                                                                                                                            |
| Temperature                                |                                                                                                                                            |
| Moving                                     | -40°C to +80°C                                                                                                                             |
| Static                                     | -40°C to +80°C                                                                                                                             |
| <b>Mechanical properties <sup>1)</sup></b> |                                                                                                                                            |
| Dimensions                                 |                                                                                                                                            |
| Length                                     | 8 m                                                                                                                                        |
| Diameter                                   | 14.6 mm ±0.4 mm                                                                                                                            |
| Bend radius                                |                                                                                                                                            |
| Single bend                                | >40 mm                                                                                                                                     |
| Moving                                     | ≥140 mm                                                                                                                                    |
| Drag chain data                            |                                                                                                                                            |
| Acceleration                               | Max. 50 m/s <sup>2</sup> (depends on the length of the travel path)                                                                        |
| Flex cycles                                | ≥5,000,000                                                                                                                                 |
| Velocity                                   | Max. 300 m/min                                                                                                                             |
| Weight                                     | 2.8 kg                                                                                                                                     |

Table 2: 8CCH0008.11220-1 - Technical data

1) Values refer to the raw cable being used.

## 4 Wiring

### 4.1 Cable construction

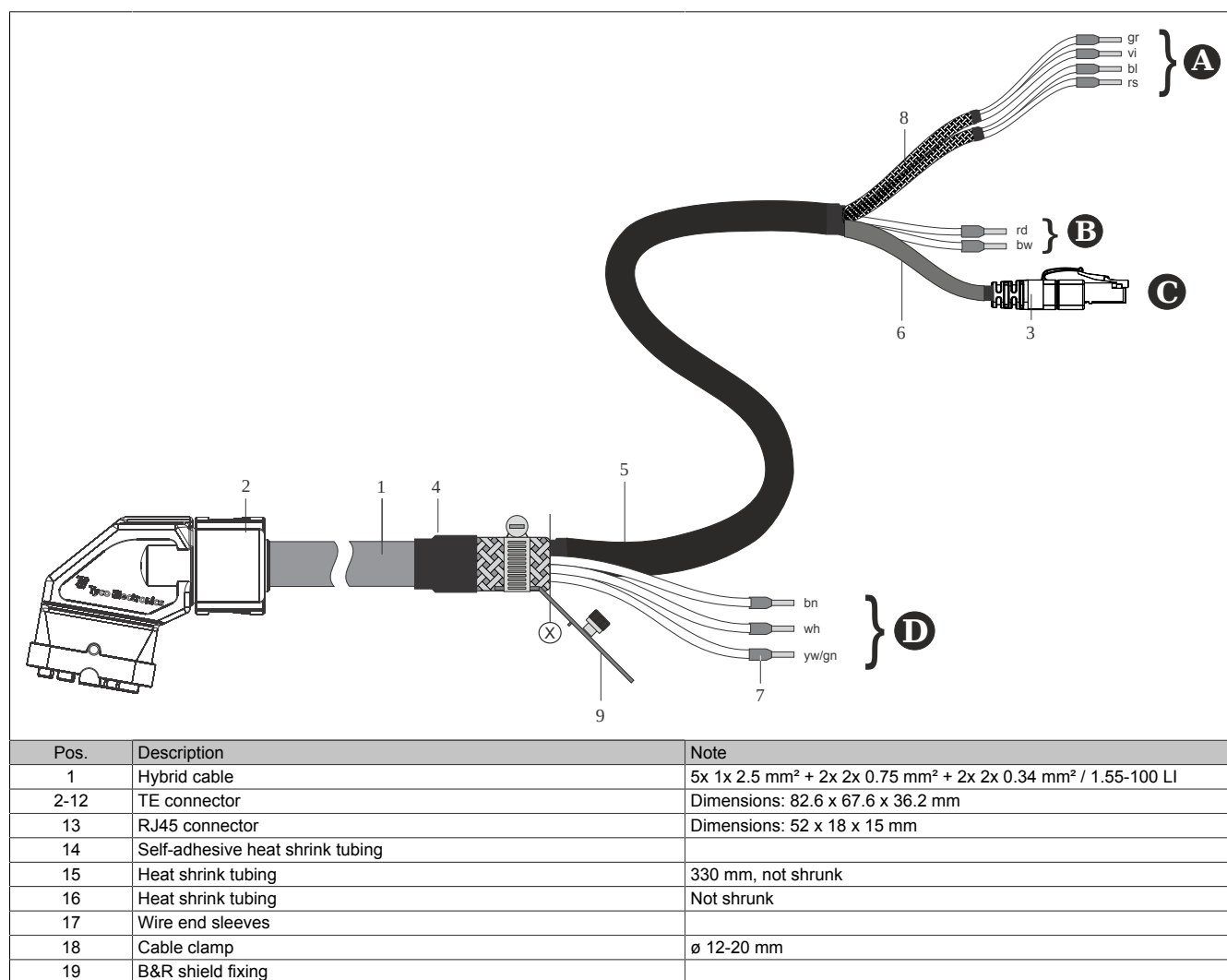


Table 3: One-sided hybrid cable 8CCHxxxx.11220-1 - Cable construction

### 4.2 Pinout

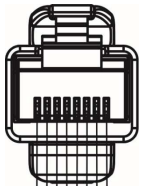
| Connector                                                                           | Pin | Description | Function                 |
|-------------------------------------------------------------------------------------|-----|-------------|--------------------------|
|  | 1   | TXD         | Transmit signal          |
|                                                                                     | 2   | TXD\        | Transmit signal inverted |
|                                                                                     | 3   | RXD         | Receive signal           |
|                                                                                     | 4   | ---         | ---                      |
|                                                                                     | 5   | ---         | ---                      |
|                                                                                     | 6   | RXD\        | Receive signal inverted  |
|                                                                                     | 7   | ---         | ---                      |
|                                                                                     | 8   | ---         | ---                      |

Table 4: RJ45 connector - Pinout

### 4.3 Cable diagram

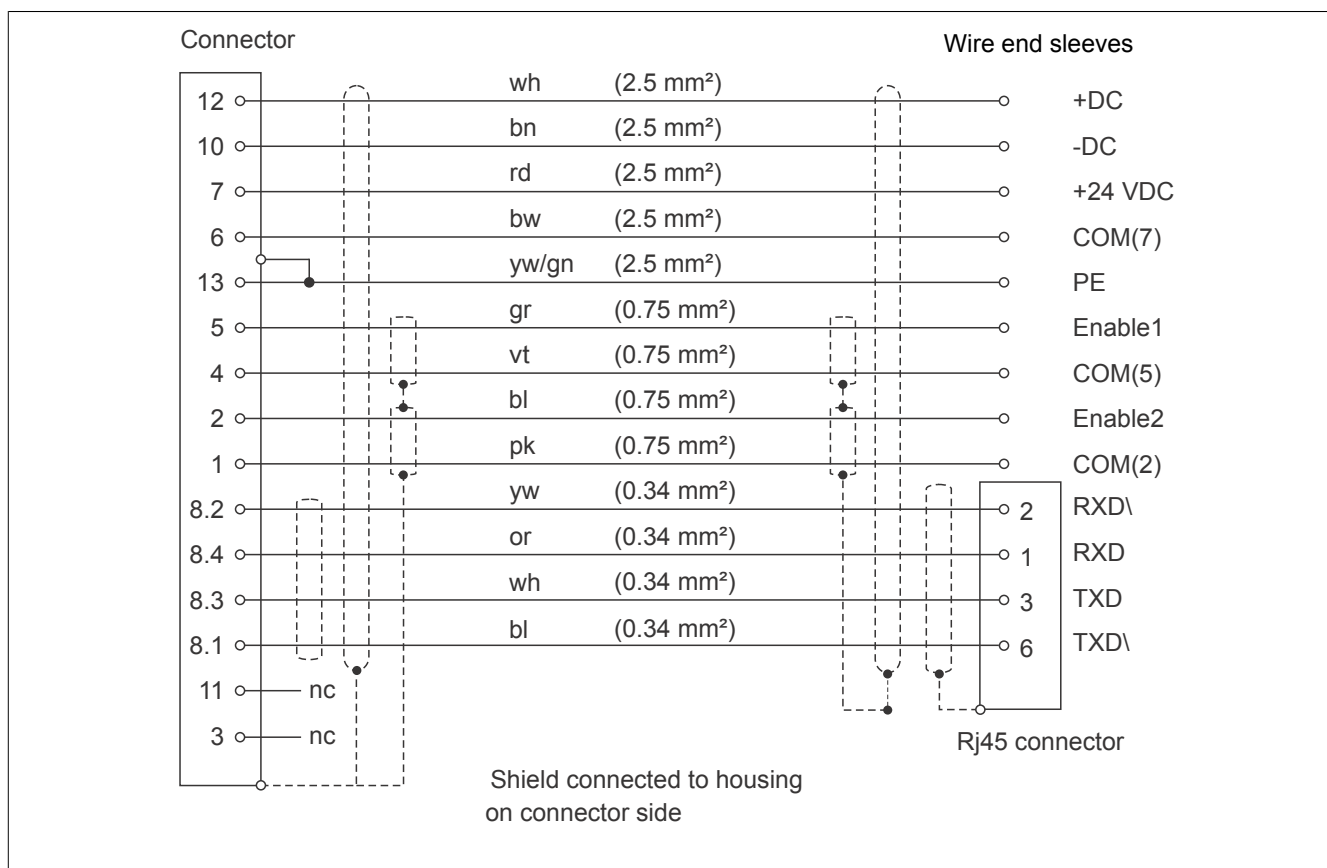


Figure 1: One-sided hybrid cable 8CCHxxxx.11220-1 - Cable diagram