

8CM006.12-5

1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOS 1640/128M servo drives and B&R servo motors with motor connector size 1.5

2 Order data

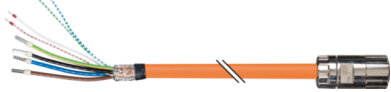
| Model number | Short description | Figure |
|--------------|--|---|
| 8CM006.12-5 | 10 mm² motor cables Motor cable, length 6 m, 4x 10 mm ² + 2x 0.75 mm ² + 2x 1.5 mm ² , 8-pin female Intercontec motor connector size 1.5, can be used in cable drag chains |  |

Table 1: 8CM006.12-5 - Order data

3 Technical data

| Model number | 8CM006.12-5 |
|--|---|
| General information | |
| Cable cross section | 4x 10 mm ² + (2x 0.75 mm ²)C + (2x 1.5 mm ²)C |
| Durability | Oil resistance per HD 22.10 appendix A DIN EN 60811-404 ¹⁾ |
| Certification | E170315 cRUus AWM STYLE 21223 AWM I/II A/B 80°C 1000 V FT1 ¹⁾ |
| Certifications | |
| CE | Yes |
| UL | cULus E225616 Power conversion equipment |
| Cable construction | |
| Power lines | |
| Quantity | 4 |
| Wire insulation | PP |
| Wire colors | Black, brown, blue, yellow/green |
| Variant | Tinned copper stranded wire |
| Cross section | 10 mm ² |
| Shield | No |
| Stranding | No |
| Signal line | |
| Quantity | 4 |
| Wire insulation | PP |
| Wire colors | White, white/red, white/blue, white/green |
| Variant | Tinned copper stranded wire |
| Cross section | 2x 0.75 mm ² + 2x 1.5 mm ² |
| Shield | Individually shielded in pairs, tinned copper braiding, optical coverage > 85% and foil shield |
| Stranding | White with white/red and white/blue with white/green |
| Cable stranding | With filler elements and foil shield |
| Cable shield | Tinned copper braiding, optical coverage > 85% and foil shield |
| Outer jacket | |
| Material | TPU |
| Color | Orange, similar to RAL 2003 flat |
| Labeling | B&R 4 G 10 + (2x0.75)C + (2x1.5)C C E170315 cRU- us AWM STYLE 21223 AWM I/II A/B 80°C 1000 V FT1 ¹⁾ |
| Connector | |
| Type | Intercontec 8-pin female motor connector, size 1.5 |
| Mating cycles | <500 |
| Contacts | 8 (4 power and 4 signal contacts) |
| Degree of protection per EN 60529 | IP66/67 when connected |
| Electrical properties ¹⁾ | |
| Operating voltage | Max. 1000 V AC (UL) |
| Test voltage | |
| Wire/Wire | 4 kV |
| Wire/Shield | 4 kV |

Table 2: 8CM006.12-5 - Technical data

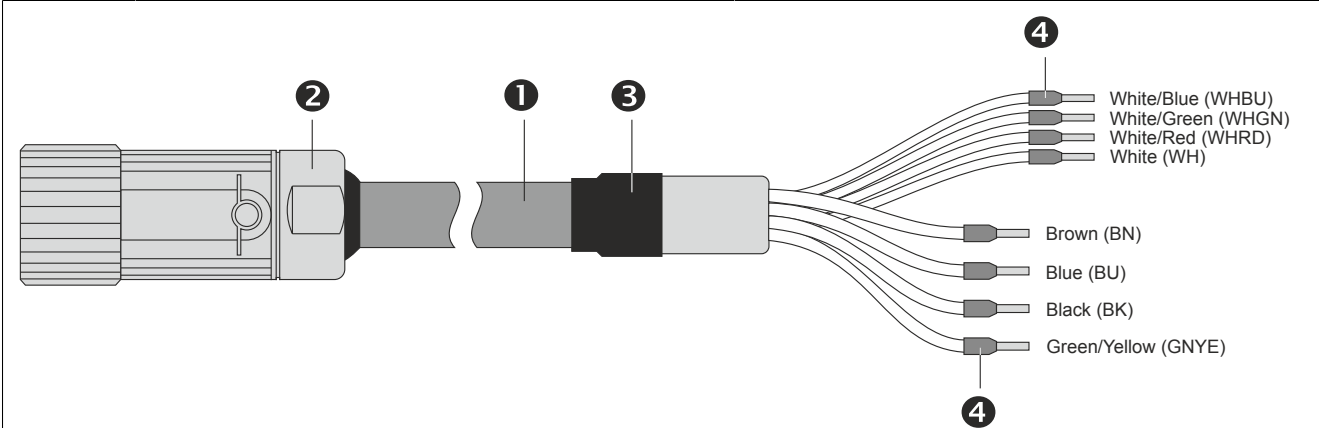
| Model number | 8CM006.12-5 |
|---|---|
| Conductor resistance | |
| Power lines | ≤2 Ω/km |
| Signal line | 0.75 mm ² : ≤26.7 Ω/km, 1.5 mm ² : ≤13.7 Ω/km |
| Insulation resistance | ≥500 MΩ*km |
| Current-carrying capacity per DIN VDE 0298 part 4, table 11 | |
| Wall mounting | 64.6 A |
| Installed in conduit or cable duct | 54.6 A |
| Installed in cable tray | 68.3 A |
| Ambient conditions ¹⁾ | |
| Temperature | |
| Moving | -20°C to +80°C |
| Static | -20°C to +90°C |
| Mechanical properties ¹⁾ | |
| Dimensions | |
| Length | 6 m |
| Diameter | 20.1 mm ±0.4 mm |
| Bend radius | |
| Single bend | >62 mm |
| Moving | >154 mm |
| Drag chain data | |
| Acceleration | Max. 50 m/s ² (depends on the length of the travel path) |
| Flex cycles ¹⁾ | ≥5,000,000 |
| Speed | Max. 300 m/min |
| Weight | 3.2 kg |

Table 2: 8CM006.12-5 - Technical data

1) Values refer to the raw cable being used.

4 Wiring

4.1 Cable construction



| Pos. | Description | Note |
|------|---------------------------------|--|
| 1 | Motor line | 4x 0.75 mm ² + 2x 2x 0.34 mm ² 4x 1.5 mm ² + 2x 2x 0.75 mm ² 4x 4 mm ² + 2x 0.75 mm ² + 2x 1 mm ² 4x 10 mm ² + 2x 0.75 mm ² + 2x 1.5 mm ² |
| 2 | 8-pin female circular connector | |
| 3 | Heat shrink tubing | |
| 4 | Wire end sleeves | |

Table 3: Motor cables - Cable construction

4.2 8CMxxx.19-3, 8CMxxx.12-5

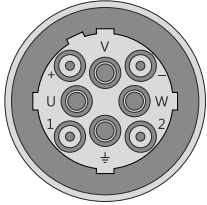
| Circular connector | Pin | Description | Function |
|---|-----|-------------|-----------------------------|
|  | U | U | Motor connection U |
| | ⊥ | PE | Protective ground conductor |
| | W | W | Motor connection W |
| | V | V | Motor connection V |
| | 1 | T+ | Temperature + |
| | 2 | T- | Temperature - |
| | + | B+ | Brake + |
| | - | B- | Brake - |

Table 4: 8CMxxx.19-3, 8CMxxx.12-5 motor cables - Pinout

4.3 8CMxxx.19-3, 8CMxxx.12-5

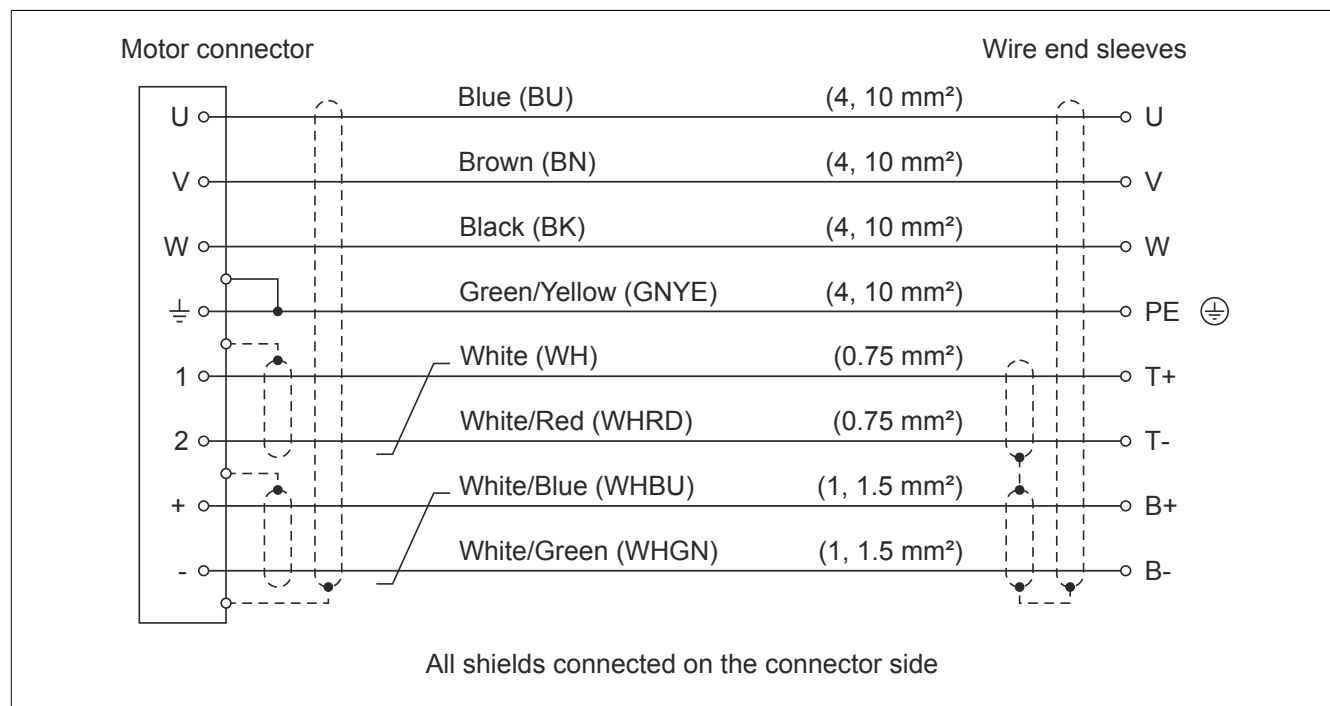


Figure 1: 8CMxxx.19-3, 8CMxxx.12-5 motor cables - Cable diagram