

8CM010.12-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOS 1010/1016/1022/1045/1090 servo drives and B&R servo motor with motor connector size 1

2 Order data

Model number	Short description	Figure
	0.75 mm² motor cables	
8CM010.12-0	Motor cable, length 10 m, 4x 0.75 mm ² + 2x 2x 0.34 mm ² , 8-pin female Intercontec motor connector size 1, can be used in cable drag chains	

Table 1: 8CM010.12-0 - Order data

3 Technical data

Model number	8CM010.12-0
General information	
Cable cross section	4x 0.75 mm ² + 2x 2x 0.34 mm ²
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	0.75 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	0.34 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 0.75 + 2 x (2x0.34) C C E170315 cRUus AWM STYLE 21223 AWM I/II A/B 80°C 1000 V FT1 production order number ¹⁾
Connector	
Type	8-pin female speedtec motor connector, size 1.0
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: 8CM010.12-0 - Technical data

Model number	8CM010.12-0
Conductor resistance	
Power lines	≤26.7 Ω/km
Signal line	≤56 Ω/km
Insulation resistance	≥500 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	13 A
Installed in conduit or cable duct	11.5 A
Installed in cable tray	13.5 A
Ambient conditions ¹⁾	
Temperature	
Moving	-20°C to +80°C
Static	-20°C to +90°C
Mechanical properties ¹⁾	
Dimensions	
Length	10 m
Diameter	10.1 mm ±0.3 mm
Bend radius	
Single bend	>32 mm
Moving	>78 mm
Drag chain data	
Acceleration	Max. 50 m/s ² (depends on the length of the travel path)
Flex cycles ²⁾	≥5,000,000
Speed	Max. 300 m/min
Weight	1.82 kg

Table 2: 8CM010.12-0 - Technical data

- 1) Values refer to the raw cable being used.
2) At an ambient temperature from -20°C to +60°C.

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.12-0, 8CMxxx.12-1, 8CMxxx.12-3

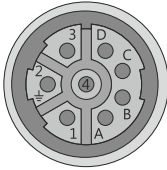
Circular connector	Pin	Description	Function
	1	U	Motor connection U
	2	PE	Protective ground conductor
	3	W	Motor connection W
	4	V	Motor connection V
	A	T+	Temperature +
	B	T-	Temperature -
	C	B+	Brake +
	D	B-	Brake -

Table 4: 8CMxxx.12-0, 8CMxxx.12-1, 8CMxxx.12-3 motor cables - Pinout

4.3 8CMxxx.12-0

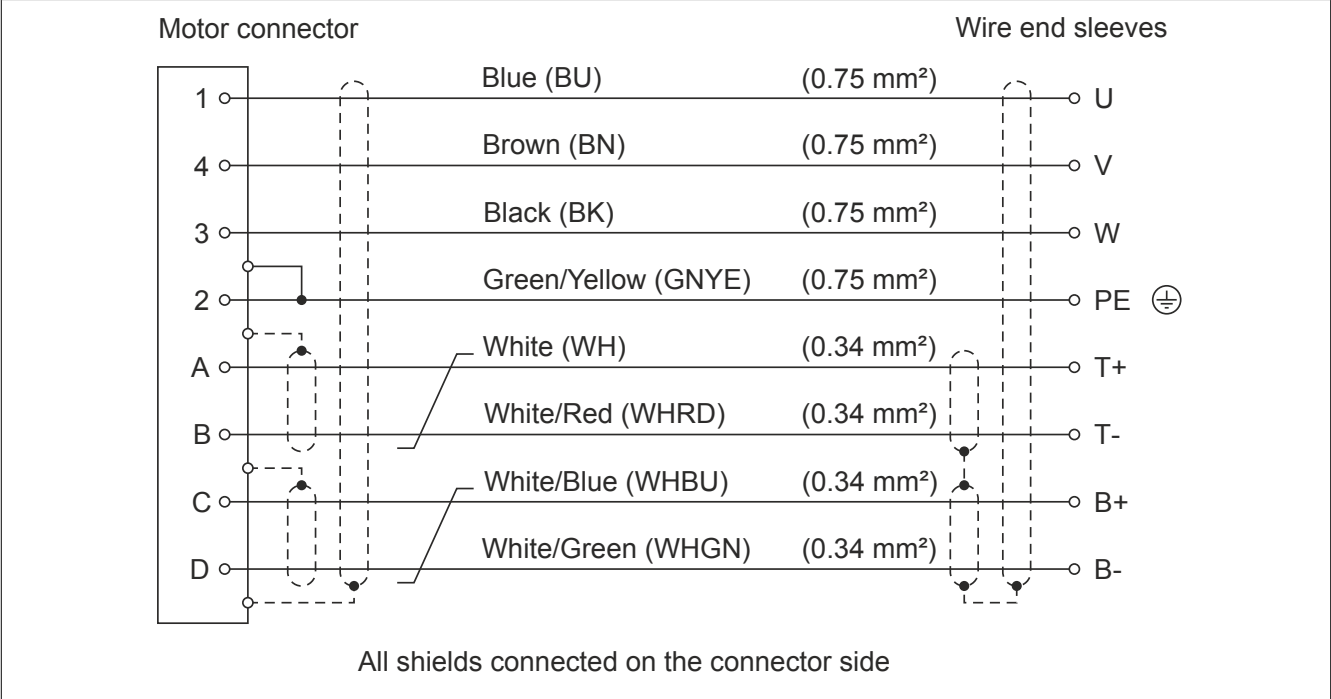


Figure 1: 8CMxxx.12-0 motor cables - Cable diagram