8CCM0002.11110-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOSremote / ACOPOSmulti65 8CVI inverter modules and B&R servo motors with size 1 motor connectors
- speedtec - Innovative connector system for secure connections

2 Order data

Model number	Short description	Figure
	1.5 mm² motor cables	
8CCM0002.11110-0	ACOPOSremote motor cable, length 2 m, 4x 1.5 mm² + 2x 2x 0.75 mm², 8-pin female speedtec circular connector size 1, 8-pin male speedtec circular connector, can be used in cable drag chains	

Table 1: 8CCM0002.11110-0 - Order data

3 Technical data

Model number	8CCM0002.11110-0
General information	
Cable cross section	4x 1.5 mm² + 2x 2x 0.75 mm²
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	1.5 mm²
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	0.75 mm²
Shield	Separate shielding for pairs, tinned copper braiding, optical coverage >85% and foil banding
Stranding	White with white/red and white/blue with white/green
Cable stranding	With filler elements and foil banding
Cable shield	Tinned copper braiding, optical coverage >85% and wrapped in isolating film
Outer jacket	
Material	TPU
Color	Orange, similar to RAL 2003 flat
Labeling	B&R 4 G 1.5 + 2 x (2x0,75)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 circular connector, size 1
Mating cycles	<500
Contacts	8 (4 power and 4 signal contacts)
Additional connectors	8-pin male circular connector Mating cycles: <500 Contacts: 8 Degree of protection per EN 60529: IP66/67 when connected
Degree of protection per EN 60529	IP66/67 when connected

Table 2: 8CCM0002.11110-0 - Technical data

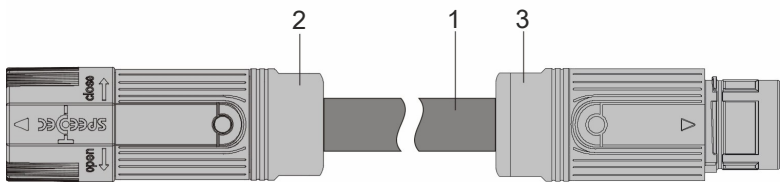
Model number	8CCM0002.11110-0
Electrical properties [1]	
Operating voltage	Max. 1000 V AC (UL)
Test voltage	
Wire/Wire	4 kV
Wire/Shield	4 kV
Conductor resistance	
Power lines	≤13.7 Ω/km
Signal line	≤26.7 Ω/km
Insulation resistance	≥500 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	20 A
Installed in conduit or cable duct	17.8 A
Installed in cable tray	20.9 A
Ambient conditions [1]	
Temperature	
Moving	-20°C to +80°C
Static	-20°C to +90°C
Mechanical properties [1]	
Dimensions	
Length	2 m
Diameter	12.2 mm ± 0.3 mm
Bend radius	
Single bend	>38 mm
Moving	>94 mm
Drag chain data	
Acceleration	Max. 50 m/s² (depends on the length of the travel path)
Flex cycles [2]	≥5,000,000
Speed	Max. 300 m/min
Weight	0.29 kg

Table 2: 8CCM0002.11110-0 - 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 cable	4x 1.5 mm² + 2x 2x 0.75 mm²
2	8-pin female circular connector	
3	Circular connector, 8-pin male	

Table 3: Motor cables - Cable construction

4.2 Pinout

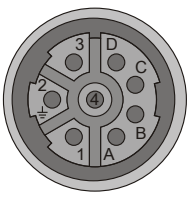
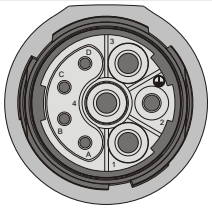
Female circular connector	Pin	Name	Function	Pin	Male circular connector
	1	U	Motor connection U	1	
	2	PE	Protective ground conductor	2	
	3	W	Motor connection W	3	
	4	V	Motor connection V	4	
	A	T+	Temperature +	A	
	B	T-	Temperature -	B	
	C	B+	Brake +	C	
	D	B-	Brake -	D	

Table 4: Motor cables - Pinout

4.3 Cable diagram

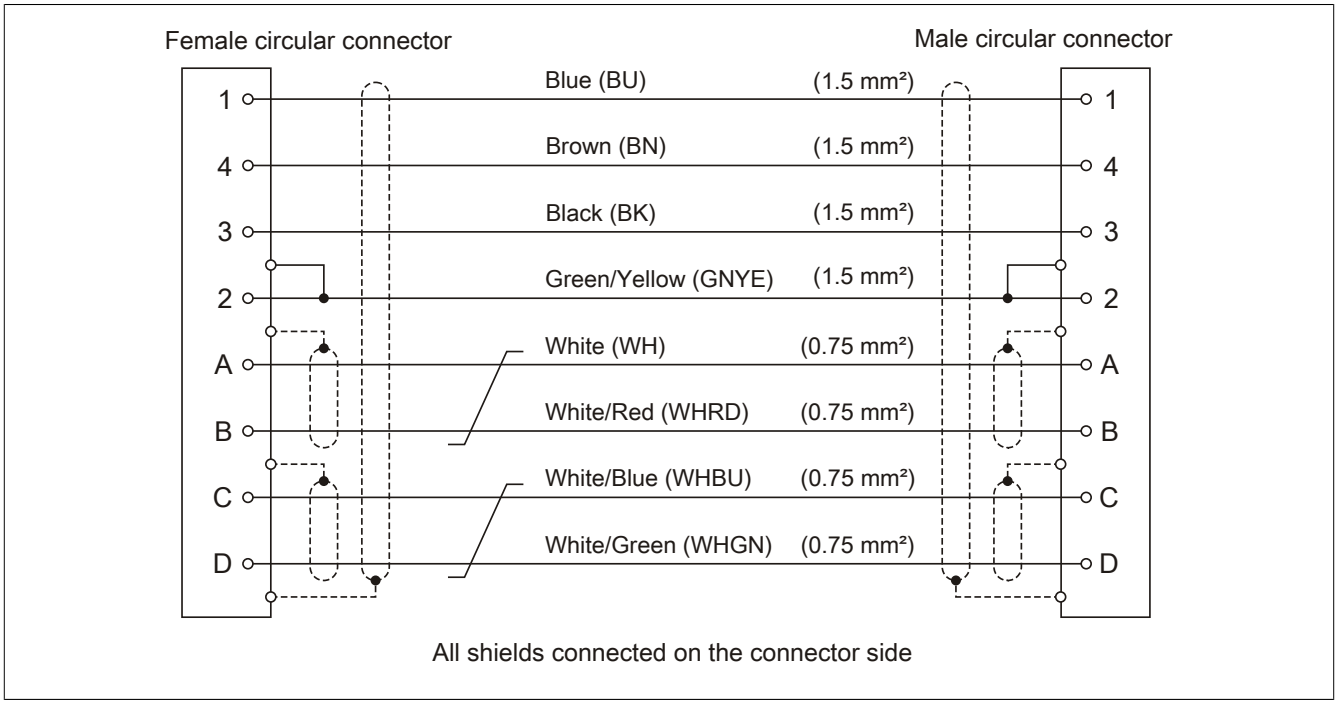


Figure 1: Motor cables - Cable diagram