8BCM0016.1111A-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOSmulti drive systems and B&R servo motors with motor connector size 1
- speedtec - Innovative connector system for secure connections
- Integrated shield plate

Information:

A shield plate is attached to ACOPOSmulti 8BCM motor cables. If this shield plate is correctly installed on the respective ACOPOSmulti 8BVI inverter module, no additional shielding measures are necessary.

2 Order data

Model number	Short description	Figure
	1.5 mm² motor cables	
8BCM0016.1111A-0	ACOPOSmulti motor cable, length 16 m, 4x 1.5 mm² + 2x 2x 0.75 mm², 8-pin female speedtec motor connector size 1, integrated shield plate, can be used in cable drag chains	

Table 1: 8BCM0016.1111A-0 - Order data

3 Technical data

Model number	8BCM0016.1111A-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
EAC	Yes
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 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 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 motor connector, size 1

Table 2: 8BCM0016.1111A-0 - Technical data

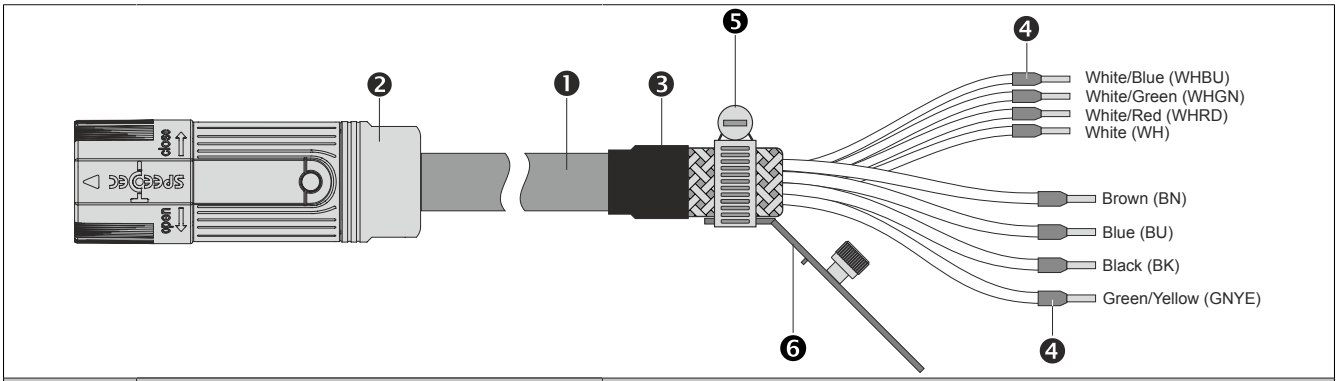
Model number	8BCM0016.1111A-0
Mating cycles	<500
Contacts	8 (4 power and 4 signal contacts)
Degree of protection per EN 60529	IP66/67 when connected
Electrical properties [1]	
Operating voltage	Max. 1000 V AC (UL)
Test voltage	
Wire - Wire	4 kV
Wire - Shield	4 kV
Conductor resistance	
Power lines	≤13.7 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	16 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
Velocity	Max. 300 m/min
Weight	2.4 kg

Table 2: 8BCM0016.1111A-0 - Technical data

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

4 0.75 mm² - 4 mm² motor cables

Construction



Pos.	Description	Note
1	Motor line	4x 0.75 mm² + 2x 2x 0.34 mm² (8BCMxxxx.x011A-0) 4x 1.5 mm² + 2x 2x 0.75 mm² (8BCMxxxx.1111A-0) 4x 4 mm² + 2x 0.75 mm² + 2x 1 mm² (8BCMxxxx.1312A-0)
2	8-pin female circular connector	Dimensions: ø 28 x 78 mm
3	Heat shrink tubing	
4	Wire end sleeves	
5	Cable clamp	
6	Shield plate	

Table 3: 0.75 mm² - 4 mm² motor cables - Construction

Pinout

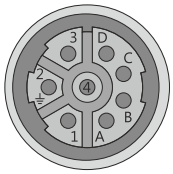
Circular connector	Pin	Description	Function
	1	U	Motor connection U
	4	V	Motor connection V
	3	W	Motor connection W
	2	PE	Protective ground conductor
	A	T+	Temperature +
	B	T-	Temperature -
	C	B+	Brake +
	D	B-	Brake -

Table 4: 0.75 mm² - 4 mm² motor cables - Pinout

Cable diagram

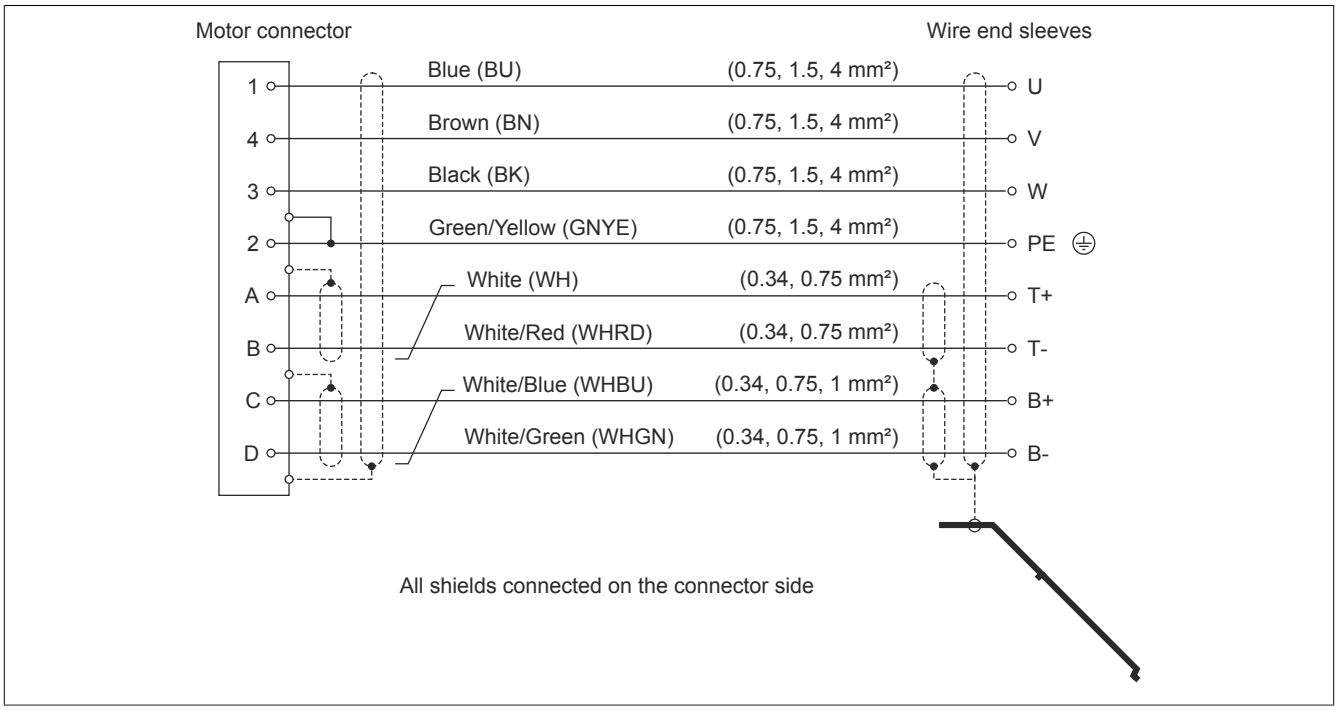


Figure 1: 0.75 mm² - 4 mm² motor cables - Cable diagram