

# 8BCM0005.13250-0

## 1 General information

- Can be used in cable drag chains
- Assembled specifically for 8BCMxxx.1322A-0 motor cables
- speedtec - Innovative connector system for secure connections

## 2 Order data


Model number	Short description	Figure
8BCM0005.13250-0	<b>Motor cables 4 mm<sup>2</sup></b> Cable extension for 4 mm <sup>2</sup> motor cables with speedtec/standard connector size 1.5, length 5 m, can be used in cable drag chains	

Table 1: 8BCM0005.13250-0 - Order data

## 3 Technical data

Model number	8BCM0005.13250-0
<b>General information</b>	
Cable cross section	4 x 4.0 mm <sup>2</sup> + 2 x 0.75 mm <sup>2</sup> + 2 x 1.0 mm <sup>2</sup>
Durability	Oil resistance per HD 22.10 appendix A and DIN EN 60811-404 <sup>1)</sup>
Certification	E170315 cRUus AWM STYLE 21223 AWM I/II A/B 80°C 1000 V FT1 <sup>1)</sup>
Certifications	
CE	Yes
UL	cULus E225616 Power conversion equipment
EAC	Yes
<b>Cable construction</b>	
Power lines	
Quantity	4
Wire insulation	PP
Wire colors	Black, brown, blue, yellow/green
Variant	Tinned copper stranded wire
Cross section	4 mm <sup>2</sup>
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	2 x 0.75 mm <sup>2</sup> + 2 x 1.0 mm <sup>2</sup>
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 4 + (2x0.75)C + (2x1)C C E170315 cRUus AWM STYLE 21223 AWM I/II A/B 80°C 1000 V FT1 <sup>1)</sup>
<b>Connector</b>	
Type	8-pin female speedtec motor connector, size 1.5
Mating cycles	<500
Contacts	8 (4 power and 4 signal contacts)
Additional connectors	8-pin male coupling Connection cycles: <500 Contacts: 8
Degree of protection per EN 60529	Degree of protection per EN 60529: IP66/67 when connected
Degree of protection per EN 60529	IP66/67 when connected
<b>Electrical properties <sup>1)</sup></b>	
Operating voltage	Max. 1000 V AC (UL)

Table 2: 8BCM0005.13250-0 - Technical data

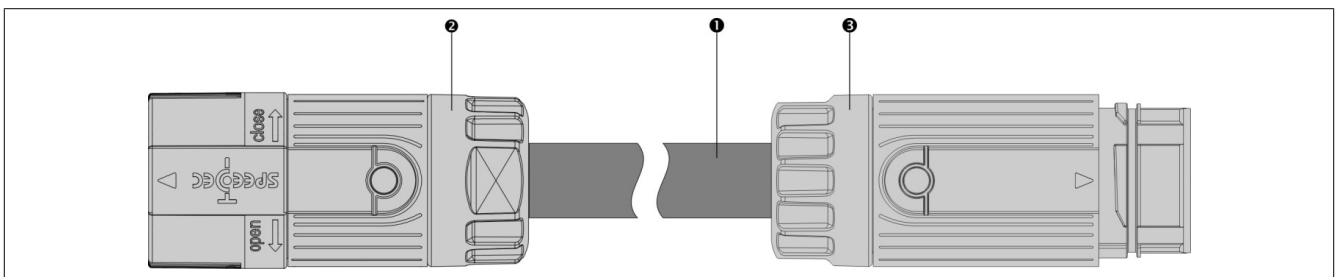
Model number	8BCM0005.13250-0
Test voltage	
Wire - Wire	4 kV
Wire - Shield	4 kV
Conductor resistance	
Power lines	≤5.1 Ω/km
Signal line	0.75 mm <sup>2</sup> : ≤26.7 Ω/km, 1 mm <sup>2</sup> : ≤20 Ω/km
Insulation resistance	≥500 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	30 A <sup>2)</sup>
Installed in conduit or cable duct	30 A <sup>2)</sup>
Installed in cable tray	30 A <sup>2)</sup>
<b>Ambient conditions <sup>1)</sup></b>	
Temperature	
Moving	-20°C to +80°C
Static	-20°C to +90°C
<b>Mechanical properties <sup>1)</sup></b>	
Dimensions	
Length	5 m
Diameter	15.4 mm ± 0.4 mm
Bend radius	
Single bend	>48 mm
Moving	>119 mm
Drag chain data	
Acceleration	Max. 50 m/s <sup>2</sup> (depends on the length of the travel path)
Flex cycles <sup>3)</sup>	≥5,000,000
Velocity	Max. 300 m/min
Weight	1.4 kg

Table 2: 8BCM0005.13250-0 - Technical data

- 1) Values refer to the raw cable being used.
- 2) Limited to 30 A by the motor connector.
- 3) At an ambient temperature from -20°C to +60°C.

## 4 Wiring

### 4.1 Cable construction



Pos.	Description	Note
1	4 mm <sup>2</sup> motor line 10 mm <sup>2</sup> motor line	4 x 4 mm <sup>2</sup> + 2 x 0.75 mm <sup>2</sup> + 2 x 1.0 mm <sup>2</sup> 4 x 10 mm <sup>2</sup> + 2 x 0.75 mm <sup>2</sup> + 2 x 1.5 mm <sup>2</sup>
2	8-pin female motor connector	
3	8-pin male coupling	

Table 3: 4 mm<sup>2</sup> motor cables - Cable construction

### 4.2 Pinout

Connector	Pin	Description	Function	Coupling
	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: 4 mm<sup>2</sup> motor cables - Pinout

### 4.3 Cable diagram

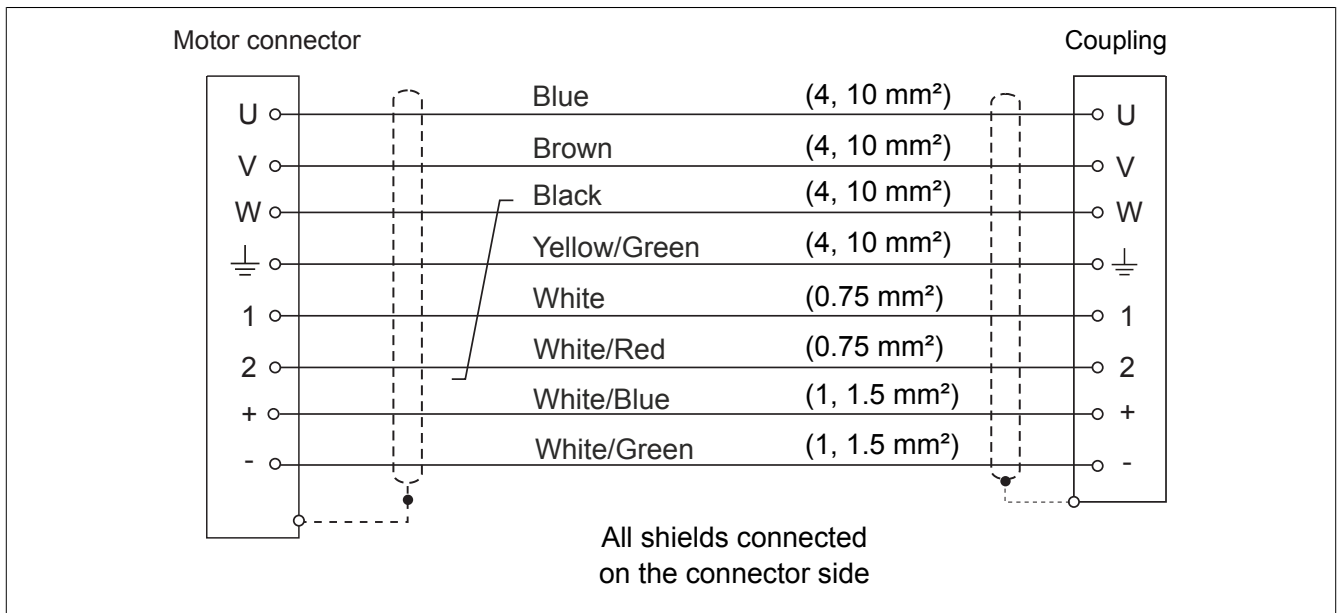


Figure 1: Motor cables with connector size 1.5 - Cable diagram