

8BCM0002.13140-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for 8BCMxxxx.1312A-0 motor cables
- speedtec - Innovative connector system for secure connections

2 Order data

Order number	Short description	Figure
8BCM0002.13140-0	Motor cables 4 mm² Cable extension for 4 mm ² motor cables with speedtec/standard connector size 1, length 2 m, can be used in cable drag chains	

Table 1: 8BCM0002.13140-0 - Order data

3 Technical data

Order number	8BCM0002.13140-0
General information	
Cable cross section	4 x 4.0 mm ² + 2 x 0.75 mm ² + 2 x 1.0 mm ²
Durability	Oil resistance per HD 22.10 appendix A and DIN EN 60811-404 ¹⁾
Certification	UL AWM style 20234, 80°C, 1000 V, E63216 and CSA AWM I/II A/B, 90°C, 1000 V, FT2 LL46064
Certifications	
CE	Yes
UKCA	Yes
UL	cULus E225616
EAC	Power conversion equipment
	Yes
Cable construction	
Power lines	
Quantity	4
Wire insulation	PP
Wire colors	Black, brown, blue, yellow/green
Variant	Tinned copper stranded wire
Cross section	4 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	2 x 0.75 mm ² + 2 x 1.0 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	BERNECKER + RAINER 4x4,0+2x2x1,0 FLEX UL AWM STYLE 20234 80°C 1000 V E63216 CSA AWM I/II A/B 90°C 1000 V FT2 LL46064
Connector	
Type	8-pin female speedtec motor connector
Mating cycles	<500
Contacts	8 (4 power and 4 signal contacts)
Additional connectors	8-pin male coupling 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
Electrical properties ¹⁾	
Operating voltage	Max. 1000 VAC (UL)

Table 2: 8BCM0002.13140-0 - Technical data

Order number	8BCM0002.13140-0
Test voltage	
Wire - Wire	4 kV
Wire - Shield	4 kV
Conductor resistance	
Power lines	≤5.1 Ω/km
Signal line	0.75 mm ² : ≤26.7 Ω/km, 1 mm ² : ≤20 Ω/km
Insulation resistance	≥500 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	30 A ²⁾
Installed in conduit or cable duct	30 A ²⁾
Installed in cable tray	30 A ²⁾
Ambient conditions ¹⁾	
Temperature	
Moving	-20°C to +80°C
Static	-20°C to +90°C
Mechanical properties ¹⁾	
Dimensions	
Length	2 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 ² (depends on the length of the travel path)
Flex cycles ³⁾	≥5,000,000
Velocity	Max. 300 m/min
Weight	0.6 kg

Table 2: 8BCM0002.13140-0 - 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

Construction

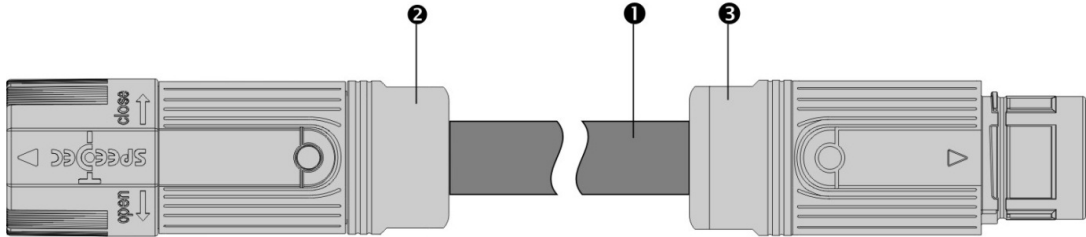
		
Pos.	Description	Note
1	Motor line	4x 1.5 mm ² + 2x 2x 0.75 mm ² (8BCMxxx.11140-0) 4x 4 mm ² + 2x 0.75 mm ² + 2x 1 mm ² (8BCMxxx.13140-0)
2	8-pin female circular connector	
3	8-pin male coupling	

Table 3: Cable construction

4.2 Pinout

Pinout

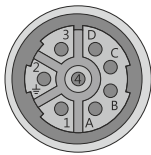
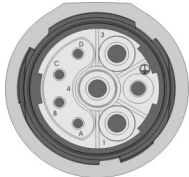
Circular connector	Pin	Description	Function	Coupling
	1	U	Motor connection U	
	4	V	Motor connection V	
	3	W	Motor connection W	
	2	PE	Protective ground conductor	
	A	T+	Temperature +	
	B	T-	Temperature -	
	C	B+	Brake +	
	D	B-	Brake -	

Table 4: Pinout

4.3 Cable diagram

Cable diagram

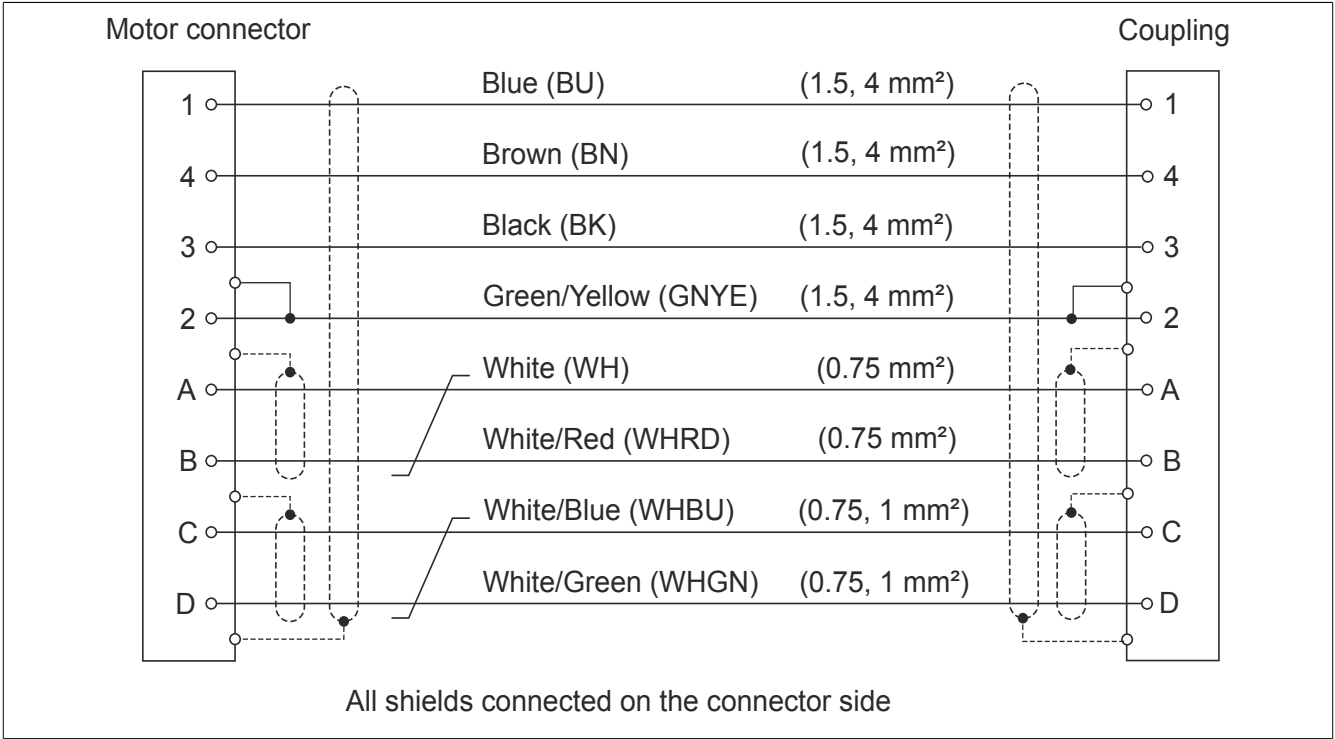


Figure 1: Motor cables - Cable diagram