

8BCA01X5.1312A-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for DC connection between ACOPOSMulti expansion modules 8BVE
- Integrated shield plates

Information:

A shield plate is attached to each end of an ACOPOSMulti 8BCA expansion cable. If these shield plates are correctly installed on the respective ACOPOSMulti 8BVE expansion module, no additional shielding measures are necessary.

2 Order data

Order number	Short description	Figure
	Expansion cables	
8BCA01X5.1312A-0	ACOPOSMulti expansion cable, length 1.5 m, 3x 4 mm ² , integrated shield plate, can be used in cable drag chains	

Table 1: 8BCA01X5.1312A-0 - Order data

3 Technical data

Order number	8BCA01X5.1312A-0
General information	
Cable cross section	3x 4 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 Power conversion equipment
EAC	Yes
Cable construction	
Power lines	
Quantity	3
Wire insulation	PP
Wire colors	Black, brown, yellow/green
Variant	Tinned copper stranded wire
Cross section	4 mm ²
Shield	No
Stranding	No
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 FLEX UL AWM STYLE 20234 80°C 1000 V E63216 CSA AWM I/II A/B 90°C 1000 V FT2 LL46064
Electrical properties ¹⁾	
Operating voltage	Max. 1000 VAC (UL)
Test voltage	
Wire - Wire	4 kV
Wire - Shield	4 kV
Conductor resistance	
Power lines	≤5.1 Ω/km
Insulation resistance	≥500 MΩ*km

Table 2: 8BCA01X5.1312A-0 - Technical data

Order number	8BCA01X5.1312A-0
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	1.5 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 ² (depends on the length of the travel path)
Flex cycles ³⁾	≥5,000,000
Velocity	Max. 300 m/min
Weight	0.4 kg

Table 2: 8BCA01X5.1312A-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 Construction

Pos.	Description	Note
1	Expansion wire	3x 1.5 mm ² (for 8BCAxxxx.1111A-0) 3x 4 mm ² (for 8BCAxxxx.1312A-0) 3x 10 mm ² (for 8BCAxxxx.1513A-0)
2	Heat shrink tubing	
3	Wire end sleeves	
4	Cable clamp	
5	Shield plate	

Table 3: 8BCA expansion cables - Construction

4.2 Cable diagram

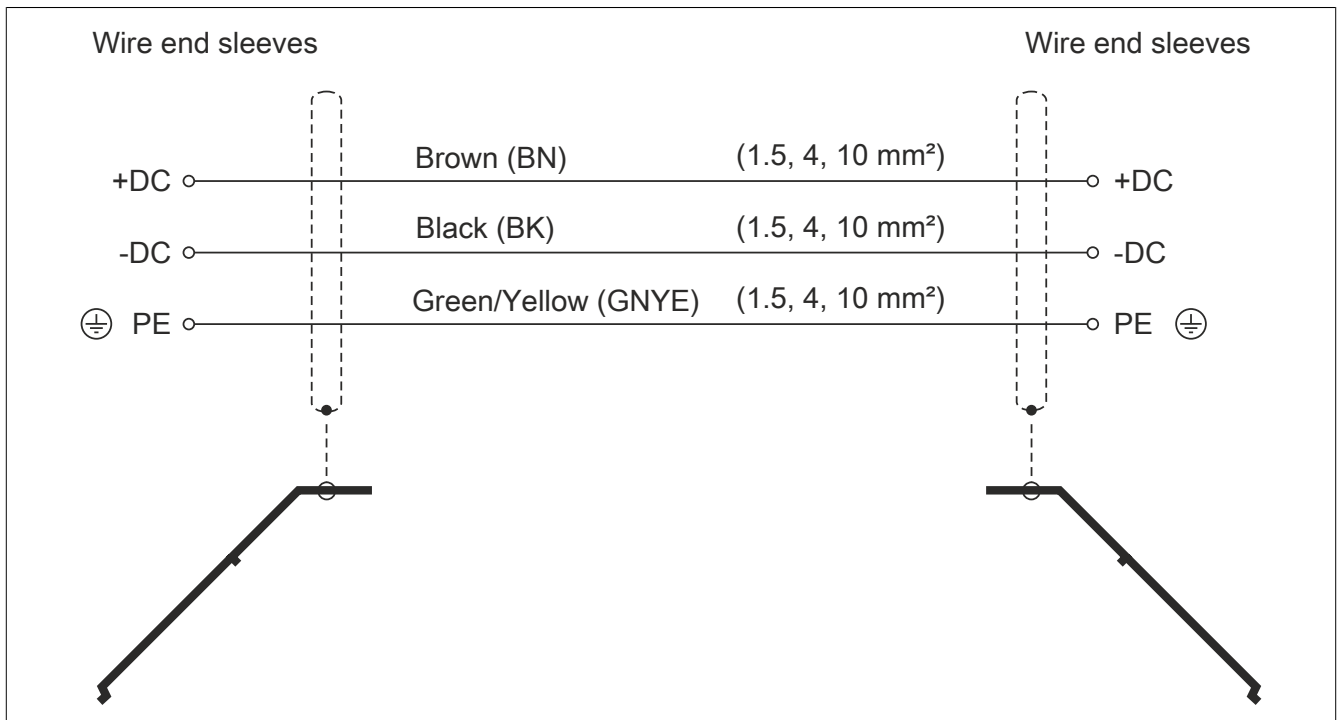


Figure 1: 8BCA expansion cables - Cable diagram