

3.2 80CMxx001.21-01 - Motor cables

3.2.1 Pinout

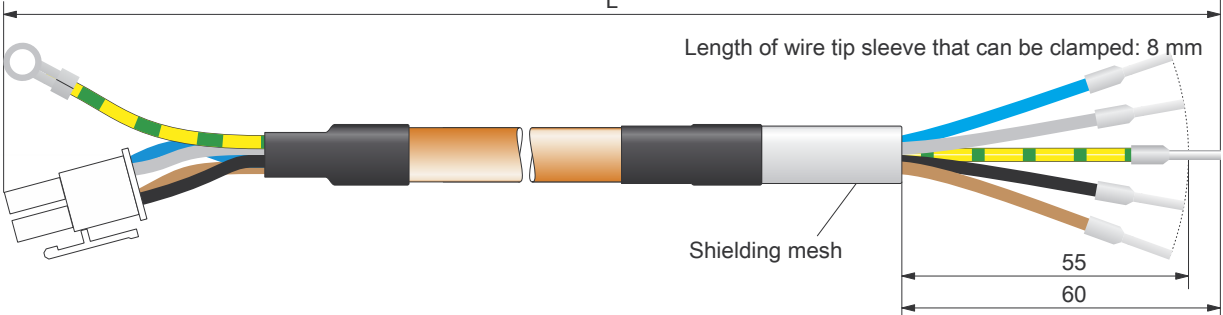
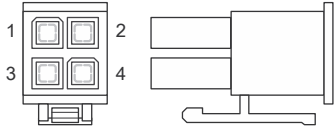
Dimensions				
				
Pinout				
4-pin terminal block	Pin	Name	Wire colors	Open
	1	A\	Gray	For custom wiring Connection to drive system
	2	B\	Blue	
	3	A	Black	
	4	B	Brown	
Cable lug	Pin	Name	Wire colors	
	-	PE lead / shielding	yellow / green	

Table 53: 80CMxx001.21-01 motor cables - Dimensions and pinout

Cable lengths (L)		
Model number	Length [cm]	Length [m]
80CM01001.21-01	100	1.0
80CM02001.21-01	200	2.0
80CM03001.21-01	300	3.0
80CM05001.21-01	500	5.0
80CM10001.21-01	1,000	10.0
80CM15001.21-01	1,500	15.0
80CM20001.21-01	2,000	20.0

Table 54: 80CMxx001.21-01 motor cables - Cable lengths

3.2.2 Cable schematic

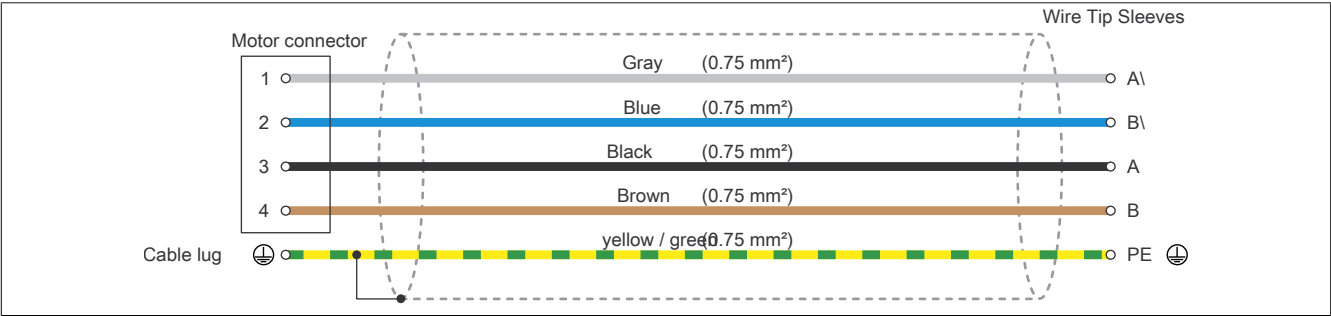


Figure 63: 80CMxx001.21-01 motor cables - Cable schematic

3.2.3 Technical data

Product ID	80CM01001. 21-01	80CM02001. 21-01	80CM03001. 21-01	80CM05001. 21-01	80CM10001. 21-01	80CM15001. 21-01	80CM20001. 21-01
General information							
Cable cross section	5x 0.75 mm²						
Durability	Oil resistance according to VDE 0472 part 803 as well as standard hydraulic oil						
Listed	UL AWM Style 20234, 80°C, 1000 V, E63216 and CSA AWM I/II A/B, 90°C, 1000 V, FT2 LL46064						
Certification cULus	Yes						
Cable construction							
Power lines	5 Special thermoplastic material Black, brown, blue, green, yellow/green Tinned Cu wire 0.75 mm² No No						
Quantity							
Wire insulation							
Wire colors							
Design							
Diameter							
Shield							
Stranding							
Cable stranding	With filler elements and foil banding						
Complete shielding	Tinned Cu mesh, optical coverage > 85% and wrapped in isolating film						
Outer sheathing	PUR Orange, similar to RAL 2003 flat BERNECKER + RAINER 5x0,75 FLEX UL AWM STYLE 20234 80°C 1000 V E63216 CSA AWM I/II A/B 90°C 1000 V FT2 LL46064						
Material							
Color							
Labeling							
Electrical characteristics							
Test voltage	3 kV 3 kV						
Wire/Wire							
Wire/Shield							
Conductor resistance	≤29 Ω/km						
Power lines							
Insulation resistance	>200 MΩ/km						
Max. current load in accordance with IEC 60364-5-523 by installation type	13 A 11.5 A 13.5 A						
Wall mounting							
Installed in conduit or cable duct							
Installed in cable tray							
Environmental conditions							
Temperature	-10 to 70°C -20 to 90°C						
Moving							
Static							
Mechanical characteristics							
Dimensions	1 m 2 m 3 m 5 m 10 m 15 m 20 m						
Length							
Diameter	8.5 mm ±0.3 mm						
Flex radius	>34 mm ≥85 mm						
Single bend							
Moving							
Drag chain data	<60 m/s² ≥3,000,000 ≤4 m/s						
Acceleration							
Flex cycles ¹⁾							
Speed							
Weight	0.128 kg/m						

Table 55: 80CM01001.21-01, 80CM02001.21-01, 80CM03001.21-01, 80CM05001.21-01, 80CM10001.21-01, 80CM15001.21-01, 80CM20001.21-01 - Technical data

1) At an ambient temperature of 20°C and a flex radius of 125 mm.