

# 80CMxx004.25-01 - SSI absolute value encoder cable

## 1 Order data


Model number	Short description	Figure
	<b>SSI encoder cables</b>	
80CM01004.25-01	SSI encoder cable, length 1 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM02004.25-01	SSI encoder cable, length 2 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM03004.25-01	SSI encoder cable, length 3 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM05004.25-01	SSI encoder cable, length 5 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM10004.25-01	SSI encoder cable, length 10 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM15004.25-01	SSI encoder cable, length 15 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	
80CM20004.25-01	SSI encoder cable, length 20 m, 4x 0.14 mm <sup>2</sup> , 4x 0.34 mm <sup>2</sup> , 8-pin connector on the motor side, 9-pin DSUB connector on the drive side, can be used in cable drag chains, UL listed	

Table 1: 80CM01004.25-01, 80CM02004.25-01, 80CM03004.25-01, 80CM05004.25-01, 80CM10004.25-01, 80CM15004.25-01, 80CM20004.25-01 - Order data

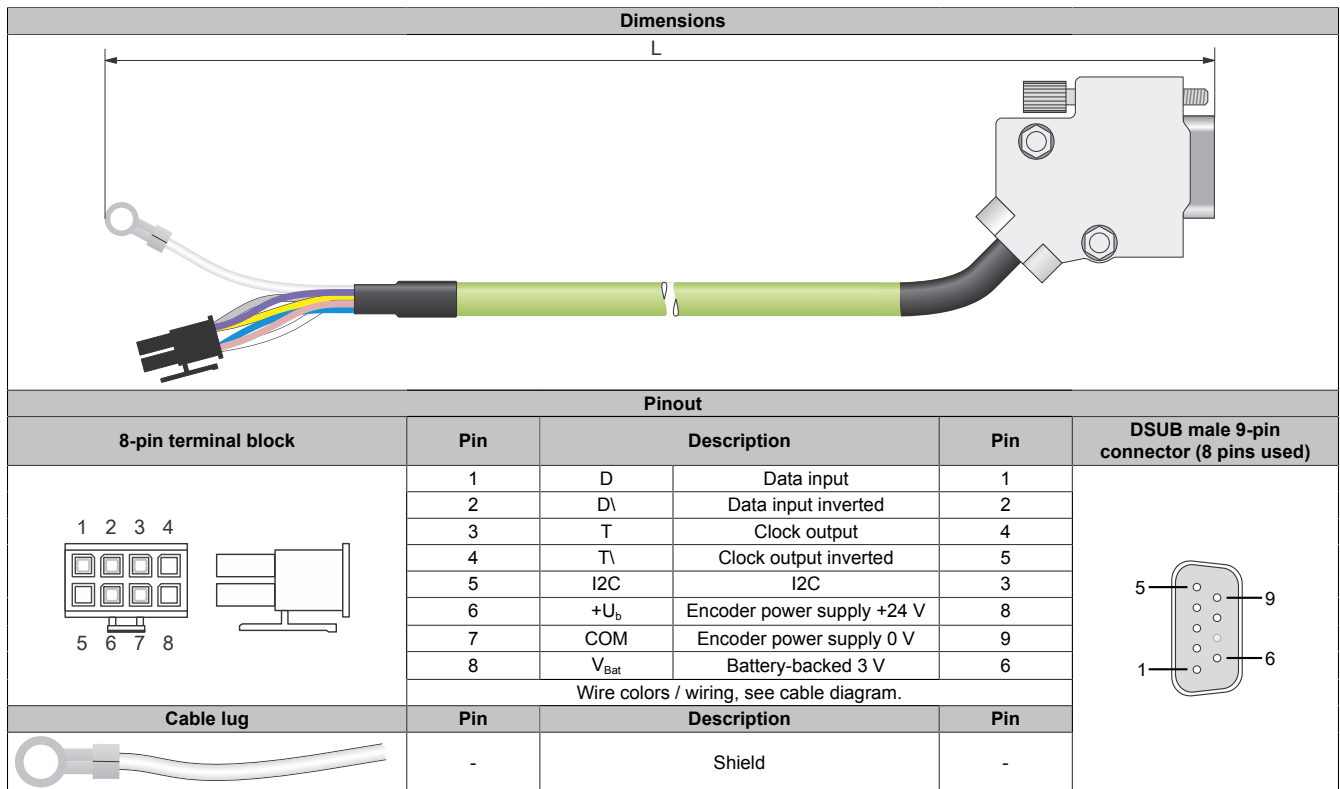
## 2 Technical data

Model number	80CM01004. 25-01	80CM02004. 25-01	80CM03004. 25-01	80CM05004. 25-01	80CM10004. 25-01	80CM15004. 25-01	80CM20004. 25-01
<b>General information</b>							
Cable cross section	1x 4x 0.14 mm <sup>2</sup> + 4x 0.34 mm <sup>2</sup>						
Durability	Oil resistance per VDE 0472 Part 803 test type B						
Certification	UL AWM Style 20963, 80°C, 30 V, E63216						
<b>Cable construction</b>							
Supply lines							
Quantity	4						
Wire insulation	Special thermoplastic material						
Wire colors	White/Green, brown/green, blue, white						
Design	Tinned copper stranded wire						
Cross section	0.34 mm <sup>2</sup>						
Shield	No						
Stranding	No						
Signal lines							
Quantity	4						
Wire insulation	Special thermoplastic material						
Wire colors	Yellow, gray, pink, violet						
Design	Tinned copper stranded wire						
Cross section	0.14 mm <sup>2</sup>						
Shield	No						
Stranding	All 4 wires together						
Cable stranding	With terminating foil shield						
Complete shielding	Copper/Tin braiding						
Outer jacket							
Material	PUR						
Color	Green						
Labeling	Heidenhain UR AWM style 20963 80°C 30 V E63216						
<b>Electrical characteristics</b>							
Test voltage							
Wire/Wire	0.5 kV						
Wire/Shield	0.5 kV						
Conductor resistance							
Supply lines	≤55 Ω/km						
Signal lines	≤134 Ω/km						
Insulation resistance	>200 MΩ/km						
<b>Environmental conditions</b>							
Temperature							
Moving	-10 to 80°C						
Static	-40 to 80°C						
<b>Mechanical properties</b>							
Dimensions							
Length	1 m	2 m	3 m	5 m	10 m	15 m	20 m
Diameter	6 mm ±0.25 mm						
Bend radius							
Single bend	≥20 mm						
Moving	≥75 mm						
Drag chain data							
Acceleration	<60 m/s <sup>2</sup>						
Flex cycles	≥3,000,000						
Speed	≤4 m/s						
Weight	0.08 kg/m						

Table 2: 80CM01004.25-01, 80CM02004.25-01, 80CM03004.25-01, 80CM05004.25-01, 80CM10004.25-01, 80CM15004.25-01, 80CM20004.25-01 - Technical data

### 3 Wiring

#### 3.1 Pinout



Cable lengths (L)	
Model number	Length [m]
80CM01004.25-01	1
80CM02004.25-01	2
80CM03004.25-01	3
80CM05004.25-01	5
80CM10004.25-01	10
80CM15004.25-01	15
80CM20004.25-01	20

#### 3.2 Cable diagram

