

80CMxxx03.26-01 - ABR incremental encoder cables with M12 connector

1 Order data

Order number	Short description	Figure
	Inc. encodercables M12	
80CM00303.26-01	Incremental encoder cable, length 0.3 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM00503.26-01	Incremental encoder cable, length 0.5 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM00703.26-01	Incremental encoder cable, length 0.7 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM00803.26-01	Incremental encoder cable, length 0.8 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01003.26-01	Incremental encoder cable, length 1 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01103.26-01	Incremental encoder cable, length 1.1 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01303.26-01	Incremental encoder cable, length 1.3 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01403.26-01	Incremental encoder cable, length 1.4 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01503.26-01	Incremental encoder cable, length 1.5 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM01703.26-01	Incremental encoder cable, length 1.7 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM02003.26-01	Incremental encoder cable, length 2 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM02503.26-01	Incremental encoder cable, length 2.5 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM02603.26-01	Incremental encoder cable, length 2.6 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM02903.26-01	Incremental encoder cable, length 2.9 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM04003.26-01	Incremental encoder cable, length 4 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM05003.26-01	Incremental encoder cable, length 5 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM05403.26-01	Incremental encoder cable, length 5.4 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	
80CM10003.26-01	Incremental encoder cable, length 10 m, 5x 0.34 mm ² , 8-pin male Molex connector on the motor side, M12 connector on the drive side, can be used in cable drag chains, UL listed	

2 Technical data

Product ID	80CMxxx03.26-01
General information	
Cable cross section	5x 0.34 mm ²
Cable construction	
Power lines	
Quantity	5
Wire insulation	PVC
Wire colors	Black, brown, blue, gray, white
Cross section	0.34 mm ²
Shield	Yes
Stranding	Yes
Cable stranding	With filler elements and foil shield
Cable shield	Tinned copper braiding, optical coverage >85% and foil shield
Outer jacket	
Material	PUR/PVC
Electrical properties	
Nominal current	Max. 4 A / contact
Connection voltage	Max. 60 V AC/DC
Ambient conditions	
Temperature	
Moving	-10 to 70°C
Static	-20 to 90°C
Mechanical properties	
Dimensions	
Diameter	6.4 mm ±0.2 mm
Bend radius	≥10x outer diameter
Drag chain data	
Acceleration	Max. 5.0 m/s ²
Flex cycles	>2.5 million
Velocity	Max. 2.0 m/s

3 Wiring

3.1 Pinout

Dimensions

Pinout

8-pin terminal block

Pin

Name

Pin

M12 circular connector

1

A

A

2

2

B

B

4

3

R

R

5

4

-

NC

5

-

NC

6

+24 VDC

Encoder supply +24 V

1

7

COM

Encoder supply 0 V

3

8

-

NC

Wire colors / wiring, see cable diagram.

Cable lug

Pin

Name

Pin

-

PE wire / Shield

-

Cable lengths (L)	
Order number	Length [m]
80CM00303.26-01	0.3
80CM00503.26-01	0.5
80CM00703.26-01	0.7
80CM00803.26-01	0.8
80CM01003.26-01	1.0
80CM01103.26-01	1.1

Cable lengths (L)	
Order number	Length [m]
80CM01303.26-01	1.3
80CM01403.26-01	1.4
80CM01503.26-01	1.5
80CM01703.26-01	1.7
80CM02003.26-01	2.0
80CM02503.26-01	2.5

Cable lengths (L)	
Order number	Length [m]
80CM02603.26-01	2.6
80CM02903.26-01	2.9
80CM04003.26-01	4.0
80CM05003.26-01	5.4
80CM05403.26-01	5.4
80CM10003.26-01	10.0

3.2 Cable diagram

