

8CM010.12-8

1 Order data

Order number	Short description	Figure
	35 mm² motor cables	
8CM010.12-8	Motor cable, length 10 m, 4x 35 mm ² + 2x (2x 1.5 mm ²), not pre-assembled, can be used in cable drag chains	

Table 1: 8CM010.12-8 - Order data

2 Technical data

Order number	8CM010.12-8
General information	
Cable cross section	4x 35 mm ² + 2x (2x 1.5 mm ²)
Durability	Hydrolysis resistance per EN 50396 Halogen-free per EN 60754-1 PWIS per VW PV 3.10.7 Oil resistance per EN 60811-404 Flame propagation per EN 60332-1-2
Certification	E170315 cRUus AWM STYLE 21209 VW-1 I/II A/B 90°C 1000 V FT1 ¹⁾
Certifications	
CE	Yes
UL	cULus E225616 Power conversion equipment
EAC	Yes
Cable construction	
Power lines	
Quantity	4
Wire insulation	PP
Wire colors	Green/Yellow, Black, labeled in white U/L1/C/L+, V/L2, W/L3/D/L-
Variant	Copper stranded wire
Cross section	35 mm ²
Shield	No
Stranding	No
Signal line	
Quantity	4
Wire insulation	PP
Wire colors	Black, labeled in white 5, 6, 7, 8
Variant	Copper stranded wire
Cross section	4x 1.5 mm ²
Shield	Shielded in pairs, tinned copper braiding, optical coverage approx. 85% and foil shield
Stranding	No. 5+6, no. 7+8
Cable stranding	With filler elements
Cable shield	Tinned copper braiding, optical coverage approx. 85%
Outer jacket	
Material	PUR
Color	Orange, similar to RAL 2003 flat
Labeling	4x 35+ 2x (2x 1.5) C E170315 cRUus AWM STYLE 21209 VW-1 I/II A/B 90°C 1000 V FT1 ¹⁾
Electrical properties ¹⁾	
Operating voltage	Max. 1000 VAC (UL)
Test voltage	
Wire - Wire	4 kV
Wire - Shield	4 kV
Current-carrying capacity	35 mm ² : 135 A 1.5 mm ² : 18 A
Conductor resistance	
Power lines	≤0.554 Ω/km
Signal line	≤13.3 Ω/km
Insulation resistance	≥500 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	133.77 A
Installed in conduit or cable duct	116.48 A
Installed in cable tray	143.78 A

Table 2: 8CM010.12-8 - Technical data

Order number	8CM010.12-8
Ambient conditions ¹⁾	
Temperature	
Storage	-30°C to +90°C
Transport	-30°C to +90°C
Moving	-30°C to +90°C
Static	-50°C to +90°C
Mechanical properties ¹⁾	
Dimensions	
Length	10 m
Diameter	30.5 mm ±0.5 mm
Bend radius	
Single bend	≥124 mm
Moving	≥232.5 mm
Drag chain data	
Acceleration	50 m/s ² up to 3 m travel path 15 m/s ² up to 10 m travel path 5 m/s ² up to 20 m travel path
Flex cycles ²⁾	≤10,000,000
Velocity	≤5 m/s
Weight	12.16 kg

Table 2: 8CM010.12-8 - Technical data

- 1) Values refer to the raw cable being used.
2) With bend radius of 232.5 mm.