8CM025.12-8

1 Order data

Model number	Short description	Figure
	35 mm² motor cables	
8CM025.12-8	Motor cable, length 25 m, 4x 35 mm² + 2x 1.5 mm² + 2x 0.75 mm², not pre-assembled, can be used in cable drag chains	

Table 1: 8CM025.12-8 - Order data

2 Technical data

Model number	8CM025.12-8
General information	
Cable cross section	4x 35 mm² + 1x (2x 1.5 mm²) + 1x (2x 0.75 mm²)
Durability	Oil resistance per DIN EN 60811-404 and hydrolysis resistance per DIN EN 50363-10-2 [1]
Certification	UL AWM STYLE 20234, 80°C, 1000 V, E63216, CSA AWM 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	Special thermoplastic material
Wire colors	Black, brown, blue, yellow/green
Variant	Tinned copper stranded wire
Cross section	35 mm²
Shield	No
Stranding	No
Signal line	
Quantity	4
Wire insulation	Special thermoplastic material
Wire colors	White/Blue, white/green, white, white/red
Variant	Tinned copper stranded wire
Cross section	2x 1.5 mm² + 2x 0.75 mm²
Shield	Separate shielding for pairs, tinned copper braiding, optical coverage >85% and foil banding
Stranding	White/Blue with white/green and white with white/red
Cable stranding	With filler elements
Cable shield	Tinned copper braiding, optical coverage >85%
Outer jacket	
Material	PUR
Color	Orange, similar to RAL 2003 flat
Labeling	B&R 4x 35 + 1x2x0.75 + 1x2x 1.5 FLEX (UL) AWM STYLE 20234 80°C 1000 V E63216 CSA AWM I/II A/B 90°C 1000 V FT1 [1]
Electrical properties [1]	
Operating voltage	Max. 1000 V AC (UL)
Test voltage	
Wire - Wire	3 kV
Wire - Shield	3 kV
Conductor resistance	
Power lines	≤1 Ω/km
Signal line	0.75 mm²: ≤29 Ω/km, 1.5 mm²: ≤14 Ω/km
Insulation resistance	>200 MΩ*km
Current-carrying capacity per DIN VDE 0298 part 4, table 11	
Wall mounting	133.8 A
Installed in conduit or cable duct	116.5 A
Installed in cable tray	143.8 A
Ambient conditions [1]	
Temperature	
Moving	-10°C to +80°C
Static	-40°C to +90°C

Table 2: 8CM025.12-8 - Technical data

Model number	8CM025.12-8
Mechanical properties [1]	
Dimensions	
Length	25 m
Diameter	34 mm ± 1 mm
Bend radius	
Single bend	≥105 mm
Moving	≥263 mm
Drag chain data	
Acceleration	≤6 g
Flex cycles [2]	>3,000,000
Velocity	≤4 m/s
Weight	56.9 kg

Table 2: 8CM025.12-8 - Technical data

1) Values refer to the raw cable being used.
2) At an ambient temperature of 20°C and bend radius of 255 mm.