

readycable® motor cable, suitable for Wittenstein,
160410-xxx, basic cable PVC 15xd

MAT9752801



readycable® motor cable, suitable for
Wittenstein, 160410-xxx, basic cable PVC 15xd

- For flexing applications
- PVC outer jacket
- Overall shield
- Flame retardant
- Silicone-free
- Not oil-resistant
- Guarantee up to 4 years

Product description

Introducing the readycable® motor cable, designed for Wittenstein applications. This PVC cable features a flame-retardant outer jacket and overall shielding, making it ideal for flexing applications. Perfect for indoor use, it supports unsupported travels up to 10m, making it suitable for wood and stone processing, packaging, and handling devices. Its silicone-free design ensures compatibility in various environments, while its robust construction guarantees reliability in demanding settings.

Connectors

Connector A	Connector M23 socket 8-pin
Connector B	Wire end sleeve

Manufacturer attributes

Manufacturer Part No	160410-xxx
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General properties

Number of cores and conductor nominal cross-section	(4G1.5)C
Outer diameter (d) max. mm	9 mm
Weight per km	119 kg/km
Copper index kg/km	82 kg/km



Electricity attributes

Nominal voltage	600/1,000V (according to DIN VDE 0298-3)
UL Voltage Rating	1000 V
Test voltage	4000V (according to DIN EN 50395)

Cable structure

Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
Core stranding	Cores wound with an optimised pitch length.
Conductor colours	cores black with white numbers, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L-
Core group 1 core structure	(4G1.5)C
Overall shield	Braiding made of tinned copper wires. Cover approx. 60% optical.
Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.
Outer jacket colour	Pastel orange (comparable to RAL 2003)

Properties and approvals

UV resistance	none
Oil resistance	No oil resistance
Flame-retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame
Silicone-free	Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)
UL verified	Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
UL/CSA AWM	Style 10492 and 2570, 1000 V, 80 °C
NFPA	According to NFPA 79-2018, chapter 12.9
Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
CE	According to 2014/35/EU

Dynamic properties

Min. bend radius, e-chain (factor)	15 x d
Min. bend radius, e-chain	135 mm
Min. bend radius, flexible (factor)	12 x d
Min. bend radius, fixed (factor)	8 x d
Temperature e-chain®	+5°C up to +70°C
Temperature, flexible	-5°C to +70°C (according to DIN EN 60811-504)
Temperature, fixed	-15°C to +70°C (according to DIN EN 50305)
v max. unsupported (speed)	3 m/s
a max. (acceleration)	20 m/s²
travel length	Class 1
torsion	No torsion



Certificates and standards

