

readycable® servo cable suitable for Baumüller
448138, 50A basic cable, PVC 7.5xd, Speedtec
MAT9295151



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- For heavy-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Silicone-free
- Flame retardant
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® servo cable, designed for heavy-duty applications and compatible with Baumüller 448138. This 50A basic cable features a durable PVC outer jacket that is oil resistant and flame retardant, ensuring reliability in various environments. Ideal for unsupported and gliding travels up to 100m, it's perfect for storage and retrieval units, machining units, and indoor cranes. With its silicone-free construction, this cable is built to withstand both indoor and outdoor conditions above 5°C.

Manufacturer attributes

Manufacturer Part No	448138
Cable type	50 A Basic cable SpeedTec

Connectors

Connector A	Connector M40 socket 8-pin
Connector B	open cable end

General properties

Number of cores and conductor nominal cross-section	(4G10+2x(2x1.5)C)C
Outer diameter (d) max. mm	23 mm
Weight per km	925 kg/km
Copper index kg/km	592 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	Stranded conductor in an especially bend-resistant version consisting of bare copper wires (according to DIN EN 60228).
Core insulation	Mechanically high-quality, especially low-capacity XLPE mixture.
Core stranding	Power cores with control pair elements wound with elements for high-tensile stresses.
Conductor colours	Power cores: Cores black with white digits, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L- 2 control pairs: cores black with white digits. 1st control wire: 5 2nd control wire: 6 3rd control wire: 7 4th control wire: 8
Core group 1 core structure	4G10
Core group 2 core structure	2x(2x1.5)C)C
Element shield	Extremely bend-resistant braiding made of tinned copper wires.
Inner jacket	PVC mixture adapted to suit the requirements in e-chains®.
Overall shield	Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
Outer jacket colour	Moss green (comparable to RAL 6005)
CFRIP®	Strip cables faster: a tear strip is moulded into the inner jacket

Dynamic properties

Min. bend radius, e-chain (factor)	7.5 x d
Min. bend radius, e-chain	172.5 mm
Min. bend radius, flexible (factor)	6 x d
Min. bend radius, fixed (factor)	4 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)	10 m/s
v max. gliding (speed)	5 m/s
a max. (acceleration)	80 m/s²
travel length	Class 5
torsion	No torsion



Properties and approvals

UV resistance	Medium
Oil resistance	Oil-resistant (according to DIN EN 50363-4-1), Class 2
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 30052 und 20886, 1000V, 90°C
NFPA	According to NFPA 79-2018, chapter 12.9
REACH	In accordance with Regulation (EC) No. 1907/2006 (REACH)
Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
Cleanroom	According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1
CE	According to 2014/35/EU

Certificates and standards

