

readycable® servo cable, suitable for Harmonic Drive, APC2-10-8M23-A-BT-2-xxx-00, basic cable PVC 15xd

MAT9452705



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

Product description

Introducing the readycable® servo cable, designed for flexing applications and compatible with Harmonic Drive models like APC2-10-8M23-A-BT-2-xxx-00. This high-quality cable features a durable PVC outer jacket, making it suitable for indoor use and unsupported travels up to 10m. With a flame-retardant design and overall shield, it ensures safety and reliability in wood/stone processing, packaging, and handling tasks. Choose the readycable® for your essential wiring needs.

Manufacturer attributes

Manufacturer Part No	APC2-10-8M23-A-BT-2-xxx-00
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General properties

Number of cores and conductor nominal cross-section	(4G1.0+2x(2x0.75)C)C
Outer diameter (d) max. mm	11.5 mm
Weight per km	184 kg/km
Copper index kg/km	110 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	Power cores and control pair elements wound together in an optimised pitch length.
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	4G1.0
Core group 2 core structure	2x(2x0.75)C)C
Element shield	Foil taping of optimised, flexible foil shield.
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	172.5 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

