

readycable® control cable according to AIDA
specification, extension cable socket-pin, 7th axis
MAT904152119



**readycable® control cable according to AIDA
specification, extension cable socket-pin, 7th
axis**

- For torsion applications
- DNV-certified
- PUR outer jacket
- Coolant-resistant
- Notch-resistant
- Hydrolysis and microbe-resistant
- Flame retardant
- Halogen-free
- Silicone-free
- UV-resistant
- PVC-free
- Oil-resistant (according to DIN EN 50363-10-2)
- Guarantee up to 4 years

Product description

Introducing the readycable® control cable, designed for heavy-duty applications with exceptional durability. This extension cable features a robust PUR outer jacket that is coolant, oil, and UV-resistant, making it suitable for both indoor and outdoor use. With its flame-retardant and halogen-free properties, it ensures safety and reliability. Ideal for machining, storage, packaging, and refrigeration sectors, it supports unsupported travel distances up to 100m for gliding applications.

Connectors

Connector A	AIDA power pin
Connector B	AIDA power pin

General properties

Number of cores and conductor nominal cross-section	5G2.5
Outer diameter (d) max. mm	10 mm
Weight per km	196 kg/km
Copper index kg/km	124 kg/km

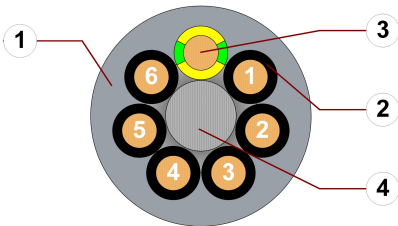


Electricity attributes

	Nominal voltage	300/500V
	UL Voltage Rating	1000 V
	Test voltage	2000V (according to DIN EN 50395)

Cable structure

	Conductor	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound in a layer with short pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	5G2.5
	Inner jacket	TPE mixture adapted to suit the requirements in e-chains®.
	Outer jacket	Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).
	Outer jacket colour	Window grey (comparable to RAL 7040)



- 1. Outer jacket: pressure-extruded, gusset-filling PUR mixture
- 2. Core insulation: mechanically high-quality TPE mixture
- 3. Conductor: finely stranded wires of bare copper wires
- 4. Strain relief: high tensile strength centre element
- 5. 12 cores or more: bundles with optimised pitch length and direction



Properties and approvals

	UV resistance	Medium
Oil resistance		Oil-resistant (according to DIN EN 50363-10-2), Class 3
Offshore		MUD-resistant according to NEK 606 - status 2018
	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)
Halogen-free		According to DIN EN 60754
	UL verified	Certificate no. V293650: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	UL/CSA AWM	Style 11323 and 21223, 1000 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003X1
	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 1, material/cable tested by IPA according to DIN EN ISO standard 14644-1
DESINA		According to VDW, DESINA standardisation
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	6.8 x d
	Min. bend radius, e-chain	68 mm
	Min. bend radius, flexible (factor)	5 x d
	Min. bend radius, fixed (factor)	4 x d
	Temperature e-chain®	-25°C up to +80°C
	Temperature, flexible	-40°C to +80°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +80°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/s ²
	travel length	Class 5
	torsion	Torsion ±180°, with 1m cable length, Class 3



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Double strokes*	5 million		7.5 million		10 million	
Temperature,	< 10 m	≥ 10m	< 10 m	≥ 10m	< 10 m	≥ 10m
from/to [°C]	R min. [Factor x d]		R min. [Factor x d]		R min. [Factor x d]	
-25/-5	8.5	10	9.5	11	10.5	12
+15/+70	6.8	7.5	7.5	8.5	8.5	9.5
+70 / +80	8.5	10	9.5	11	10.5	12

* Higher number of double strokes possible - use the service life calculation function on this page.

Torsion application

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® Guarantee](#)

Cycles*			5 million	7.5 million	10 million
Temperature,	v max. [°/s]	a max. [°/s²]	Torsion max.	R min. [Factor x d]	R min. [Factor x d]
from/to [°C]	twisted	twisted	[°/m]	[°/m]	[°/m]
-25 / -15			±150	±90	±30
-15 / +70	180	60	±180	±120	±60
+70 / +80			±150	±90	±30

* Higher number of cycles possible - please ask for your individual calculation.

Certificates and standards

