

readycable® control cable according to AIDA
specification, extension cable socket-socket, axis
1-6

MAT904152122



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specification, extension cable socket-socket,
axis 1-6

- 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. This extension cable features a robust PUR outer jacket that is oil, coolant, and UV-resistant, making it ideal for both indoor and outdoor use. With its flame retardant and halogen-free properties, it ensures safety and durability. Perfect for machining, storage units, and packaging industries, this cable supports unsupported travel distances and can handle gliding applications up to 100m. Trust readycable® for reliable performance in demanding environments.

Connectors

Connector A	AIDA power socket
Connector B	AIDA power socket

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

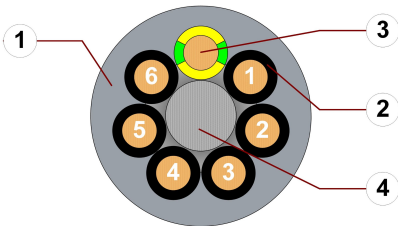


Electricity attributes

	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

