

readycable® data cable suitable for AIDA Signal,
extension cable axis 1-6, pin/pin

MAT904117098



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Signal, extension cable axis 1-6, pin/pin**

- For torsion applications
- PUR outer jacket
- Overall shield
- Oil-resistant (according to DIN EN 50363-10-2)
- Guarantee up to 4 years

Product description

Introducing the readycable® data cable, designed for AIDA Signal applications. This robust extension cable features a durable PUR outer jacket, making it ideal for heavy-duty tasks involving torsion movements. Its oil, coolant, and UV resistance ensure reliability in both indoor and outdoor environments. With flame-retardant properties and a design that withstands harsh conditions, this cable is perfect for robots, 3D movements, and lead screw drives. Choose readycable® for unmatched performance and durability.

Connectors

Connector A	AIDA signal pin
Connector B	AIDA signal pin

General properties

Number of cores and conductor nominal cross-section	(5x(2x0.5))C
Outer diameter (d) max. mm	12.5 mm
Weight per km	170 kg/km
Copper index kg/km	80 kg/km

Electricity attributes

Nominal voltage	300/500V (according to DIN VDE 0298-3)
UL Voltage Rating	300 V
Test voltage	2000V (according to DIN EN 50395)
Maximum conductor resistance at 20°C [km]	39.0000



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 TPE mixture.
Conductor colours	Colour code according to DIN 47100
Core group 1 core structure	(5x(2x0.5))C
Overall shield	Extremely torsion-resistant, tinned copper shield. Cover approx. 85% optical
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	Steel blue (comparable to RAL 5011)

Properties and approvals

UV resistance	High
Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
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 10497 and 20911, 300 V, 80 °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 1. The outer jacket material of this series complies with CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1
CE	According to 2014/35/EU

Dynamic properties

Min. bend radius, e-chain (factor)	10 x d
Min. bend radius, e-chain	125 mm
Min. bend radius, flexible (factor)	8 x d
Min. bend radius, fixed (factor)	5 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
travel length	Class 8
torsion	Torsion ±180°, with 1m cable length, Class 3



Certificates and standards

