

readycable® adapter cable suitable for Heidenhain

298 401-xx, basic cable PVC 10xd

MAT9741006



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Heidenhain 298 401-xx, basic cable PVC 10xd

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

Product description

Introducing the readycable® adapter cable, designed for Heidenhain 298 401-xx applications. This medium-duty cable features a durable PVC outer jacket that is oil resistant and silicone-free, ensuring reliability in various settings. Flame retardant and suitable for both indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and gliding applications up to 10m. Perfect for storage and retrieval units, processing machines, and indoor cranes, this cable combines versatility with robust performance.

Manufacturer attributes

Manufacturer Part No	298 401-xx
Cable type	Basic cable

Connectors

Connector A	round plug, socket
Connector B	round plug, socket

General properties

Number of cores and conductor nominal cross-section	(4x(2x0.14)+4x0.5)C
Outer diameter (d) max. mm	8.5 mm
Weight per km	86 kg/km
Copper index kg/km	54 kg/km

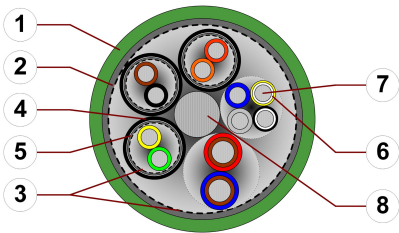


Electricity attributes

	Nominal voltage	50V
	UL Voltage Rating	300 V
	Test voltage	500V

Cable structure

	Conductor	Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	According to measuring system specification
	Conductor colours	according to measuring system specification
	Core group 1 core structure	4x(2x0.14)
	Core group 1 colour code	brown/green, yellow/violet, grey/pink, red/black
	Core group 2 core structure	4x0.5
	Element shield	Extremely bend-resistant, tinned copper shielding. Cover approx. 90% optical
	Element jacket	TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
	Overall shield	Extremely bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
	Outer jacket	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
	Outer jacket colour	Yellow-green (comparable to RAL 6018)



- 1. Outer jacket: pressure extruded, oil-resistant PVC mixture
- 2. Overall shield: extremely flexible braiding made of tinned copper wires
- 3. Banding: plastic foil
- 4. Element jacket: mechanically high-quality TPE mixture
- 5. Element shield: extremely flexible tinned copper wire
- 6. Core insulation: mechanically high-quality TPE mixture
- 7. Conductor: very finely stranded special conductors of a particularly bend-resistant design, made of tinned copper wires.
- 8. Strain relief: high tensile strength centre element



Properties and approvals

	UV resistance	none
	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 10467 and 2464, 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 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



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	85 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, fixed (factor)	5 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)	5 m/s
	v max. gliding (speed)	3 m/s
	a max. (acceleration)	30 m/s ²
	travel length	Class 2
	torsion	No torsion



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,	v max. [m/s]		a max.	Travel	R min. [Factor x d]	R min. [Factor x d]	R min. [Factor x d]
from/to [°C]	unsupported	gliding	[m/s²]	[m]			
+5/ +15					12.5	13.5	14.5
+15 / +60	5	3	30	≤ 10	10	11	12
+60 / +70					12.5	13.5	14.5

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

Certificates and standards

