

Han 6B connector housing (pin) on Han 6B
connector housing (socket), single locking lever,
straight at both ends, PUR 10xd

MAT90489367



**Han 6B connector housing (pin) on Han 6B
connector housing (socket), single locking
lever, straight at both ends, PUR 10xd**

- For torsion applications
- 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 Han 6B Connector Housing, designed for heavy-duty applications requiring torsion movements. This robust housing features a durable PUR outer jacket, ensuring excellent resistance to oil, coolant, and UV exposure. Ideal for indoor and outdoor use, it excels in environments involving robots, 3D movements, and lead screw drives. With its flame-retardant, halogen-free, and silicone-free properties, this connector housing is built to withstand the toughest conditions while maintaining reliability and safety.

Connectors

Connector A	Socket M20 insert 6+PE straight Cable entry
Connector B	Connector M20 insert 6+PE straight Cable entry

General properties

Number of cores and conductor nominal cross-section	5G1.0+(2x1.0)C
Outer diameter (d) max. mm	10 mm
Weight per km	136 kg/km
Copper index kg/km	82 kg/km

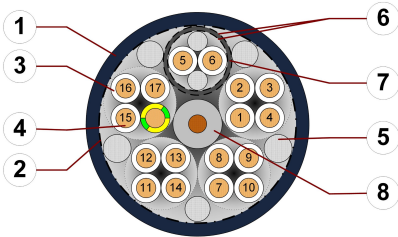


Electricity attributes

	Nominal voltage	300/500V (according to DIN VDE 0298-3)
	UL Voltage Rating	300 V
	Test voltage	2000V (according to DIN EN 50395)

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	white with black digits 1-4, one wire green-yellow white with black digits 5-6
	Core group 1 core structure	5G1.0
	Core group 1 colour code	white with black numerals 1-4, one green-yellow core
	Core group 2 core structure	(2x1.0)C
	Element 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)



- 1. Outer jacket: pressure extruded PUR mixture
- 2. Overall banding: plastic fleece over plastic band
- 3. Core insulation: mechanically high-quality TPE mixture
- 4. Conductor: fine-wire strand in especially bending-stable version consisting of bare copper wires
- 5. Filler: plastic yarns
- 6. Element banding: plastic fleece
- 7. Element shield: extremely flexible tinned copper wire
- 8. Strain relief: high tensile strength and torsion-resistant core element



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)
Halogen-free		According to DIN EN 60754
	UL verified	Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	NFPA	According to NFPA 79-2018, chapter 12.9
	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	100 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



chainflex®Lifetime

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

