

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

MAT90489375



Han 6B connector housing (pin) on Han 6B connector housing (socket), single locking lever, angled 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 with torsion movements. This robust housing features a single locking lever and is angled at both ends for optimal flexibility. Made from PUR, it boasts exceptional resistance to oil, UV, and flame, making it suitable for both indoor and outdoor use. Ideal for robotics, 3D movements, and lead screw drives, this connector housing ensures durability and reliability in demanding environments. Experience unmatched performance with Han 6B.

Connectors

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



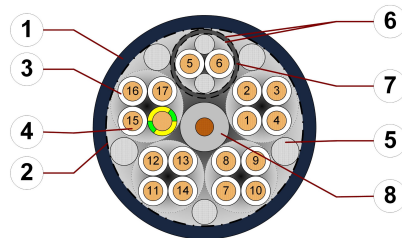
Outer jacket

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 1 m 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

