

Han 6B connector housing (pin) on Han 6B
connector housing (socket), single locking lever,
straight at both ends, PVC 12.5xd

MAT90489360



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connector housing (socket), single locking
lever, straight at both ends, PVC 12.5xd**

- For flexing applications
- PVC outer jacket
- Flame retardant
- Silicone-free
- Not oil-resistant
- Guarantee up to 4 years

Product description

Introducing the Han 6B Connector Housing, designed for flexing applications with a reliable single locking lever. This PVC housing features a flame-retardant and silicone-free construction, making it ideal for indoor use in wood and stone processing, packaging, and handling devices. Its straight design at both ends supports unsupported travels up to 10m, ensuring robust performance without oil influence. Choose the Han 6B for durability and efficiency in your applications.

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	7G1.5
Outer diameter (d) max. mm	10 mm
Weight per km	167 kg/km
Copper index kg/km	109 kg/km

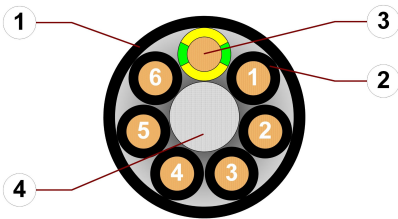


Electricity attributes

	Nominal voltage	300/500V
	UL Voltage Rating	300 V
	Test voltage	2000V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [Ω /km]	13.3000

Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound with an optimised pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	7G1.5
	Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Jet black (comparable to RAL 9005)



- 1. Outer jacket: pressure-extruded PVC mixture
- 2. Core insulation: mechanically high-quality TPE mixture
- 3. Conductor: made of bare copper wires
- 4. Filler: plastic yarns



Properties and approvals

	UV resistance	none
Oil resistance		No oil resistance
	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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	UL/CSA AWM	Style 10493 and 2464, 300 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	12.5 x d
	Min. bend radius, e-chain	125 mm
	Min. bend radius, flexible (factor)	10 x d
	Min. bend radius, fixed (factor)	7 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)	3 m/s
	v max. gliding (speed)	0 m/s
	a max. (acceleration)	20 m/s ²
	travel length	Class 1
	torsion	No torsion



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Double strokes*	1 million	3 million	5 million
Temperature,	R min.	R min.	R min.
from/to [°C]	[Factorxd]	[Factorxd]	[Factorxd]
+5 / +15	15	16	17
+15 / +60	12.5	13.5	14.5
+60 / +70	15	16	17

* Higher number of double strokes possible - use the service life calculation function on this page.

Certificates and standards

