

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

MAT90489363



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

- For flexing applications
- iguPUR outer jacket
- Flame retardant
- Silicone-free
- UV-resistant
- Oil-resistant (according to DIN EN 50363-10-2)
- Guarantee up to 4 years

Product description

Introducing the Han 6B Connector Housing, designed for flexing applications with a single locking lever for secure connections. Crafted from iguPUR, this housing is flame retardant, silicone-free, UV-resistant, and oil-resistant, making it perfect for both indoor and outdoor use without direct sunlight. Ideal for unsupported travels up to 10m, it excels in processing and machine tools, as well as low-temperature environments. Upgrade your connectivity with this durable and versatile solution.

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	163 kg/km
Copper index kg/km	109 kg/km

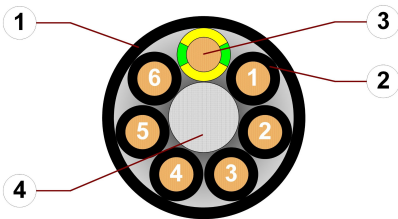


Electricity attributes

	Nominal voltage	300/500V
	UL Voltage Rating	600 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 iguPUR mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Jet black (comparable to RAL 9005)



- 1. Outer jacket: pressure extruded iguPUR 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

Medium

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 11323 and 20940, 600 V, 80 °C



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®	-20°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)	3 m/s
	v max. gliding (speed)	0 m/s
	a max. (acceleration)	20 m/s²
	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]	[Factor x d]	[Factor x d]	[Factor x d]
-20 / -10	15	16	17
-10 / +70	12.5	13.5	14.5
+70 / +80	15	16	17

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

Certificates and standards

