

Han 16B connector housing (pin) on Han 16B
connector housing (socket), single locking lever,
straight at both ends, iguPUR

MAT90489411



**Han 16B connector housing (pin) on Han 16B
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 16B Connector Housing, designed for reliable performance in flexing applications. This robust housing features a single locking lever and a straight design at both ends, crafted from iguPUR material. It's flame retardant, silicone-free, UV-resistant, and oil-resistant, making it ideal for both indoor and outdoor use without direct sunlight. Perfect for unsupported travels up to 10m, it's an excellent choice for processing and machine tools, even in low-temperature environments.

Connectors

Connector A	Socket M32 insert 16+PE straight Cable entry
Connector B	Connector M32 insert 16+PE straight Cable entry

General properties

Number of cores and conductor nominal cross-section	18G1.5
Outer diameter (d) max. mm	14.5 mm
Weight per km	362 kg/km
Copper index kg/km	279 kg/km

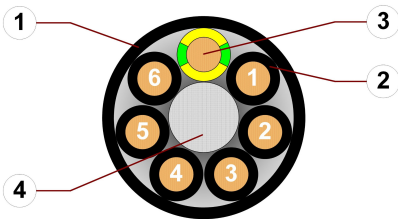


Electricity attributes

	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	18G1.5
	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	181.25 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/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]	[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

