

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

MAT90489419



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- 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 flexing applications with a single locking lever. Crafted from iguPUR material, this connector is flame retardant, silicone-free, and UV-resistant, making it ideal for both indoor and outdoor use without direct sunlight. It's perfect for unsupported travels up to 10m and is oil-resistant, ensuring durability in processing and machine tools. Choose the Han 16B for reliable performance in low-temperature environments.

Connectors

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

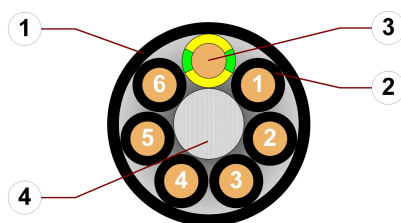
Properties and approvals

	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



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



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

