

Han 16B connector housing (pin) on Han 16B
connector housing (socket), single locking lever,
angled at both ends, PVC 7.5xd

MAT90489417



**Han 16B connector housing (pin) on Han 16B
connector housing (socket), single locking
lever, angled at both ends, PVC 7.5xd**

- For medium-duty applications
- PVC outer jacket
- Flame retardant
- Silicone-free
- Not oil-resistant
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the Han 16B Connector Housing, designed for medium duty applications. This connector features a durable PVC outer jacket that is flame retardant and silicone-free, making it ideal for indoor use. With its unique angled design at both ends and single locking lever, it ensures secure connections without the influence of oil. Perfect for wood and stone processing, packaging, and handling devices, this connector is engineered for unsupported travel distances and gliding applications up to 50m.

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	17 mm
Weight per km	438 kg/km
Copper index kg/km	268 kg/km

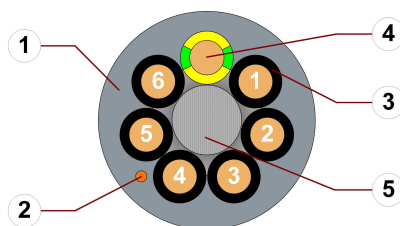


Electricity attributes

	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	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound in bundles are then wound around a high tensile strength centre element, all with optimised short pitch lengths and directions. Especially low-torsion structure.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	18G1.5
	Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
	Outer jacket colour	Silver grey (comparable to RAL 7001)
	CFRIP®	Strip cables faster: a tear strip is moulded into the outer jacket



1. Outer jacket: pressure-extruded, gusset-filling PVC mixture
2. CFRIP: tear strip for faster stripping
3. Core insulation: mechanically high-quality TPE mixture
4. Conductor: finely stranded wires of bare copper wires
5. Strain relief: high tensile strength centre element
6. 12 cores or more: bundles with optimised pitch length and direction



Dynamic properties

	Min. bend radius, e-chain (factor)	7.5 x d
	Min. bend radius, e-chain	127.5 mm
	Min. bend radius, flexible (factor)	6 x d
	Min. bend radius, fixed (factor)	4 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)	2 m/s
	a max. (acceleration)	20 m/s ²
	travel length	Class 4
	torsion	Torsion ±90°, with 1m cable length, Class 2



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Double strokes*	5 million		7.5 million		10 million	
Temperature,	< 10m	≥ 10m	< 10m	≥ 10m	< 10m	≥ 10m
from/to [°C]	R min. [Factorxd]		R min. [Factorxd]		R min. [Factorxd]	
+5 / +15	10	12.5	11	13.5	12	14.5
+15 / +60	7.5	10	8.5	11	9.5	12
+60 / +70	10	12.5	11	13.5	12	14.5

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

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: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"



UL/CSA AWM

Style 10493 and 20200, 300 V, 60 °C



NFPA

According to NFPA 79-2018, chapter 12.9



REACH

In accordance with Regulation (EC) No. 1907/2006 (REACH)



Lead-free

According to 2011/65/EU (RoHS-II/RoHS-III)



Cleanroom

According to ISO Class 1, material/cable tested by IPA according to DIN EN ISO standard 14644-1



CE

According to 2014/35/EU



Certificates and standards

