

Han 16B connector housing (pin) on Han 16B connector housing (socket), single locking lever, straight at both ends, PVC 6.8xd

MAT90489410



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- For heavy-duty applications
- PVC outer jacket
- Flame retardant
- Silicone-free
- UV-resistant
- Oil resistant (following DIN EN 50363-4-1)
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the Han 16B Connector Housing, designed for heavy-duty applications. This robust housing features a PVC outer jacket that is flame retardant, UV-resistant, and oil resistant, ensuring durability in various environments. Its single locking lever provides secure connections, while the straight design at both ends allows for easy installation. Ideal for both indoor and outdoor use, this connector is perfect for storage, retrieval, and machining units. Trust in the quality and reliability of Han for your demanding applications.

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	19.5 mm
Weight per km	478 kg/km
Copper index kg/km	267 kg/km

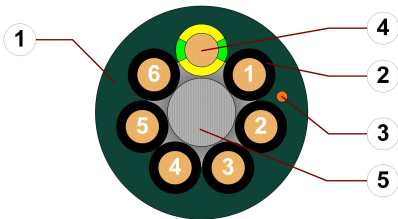


Electricity attributes

	Nominal voltage	300/500V (according to DIN VDE 0298-3)
	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	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality PVC 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, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
	Outer jacket colour	Moss green (comparable to RAL 6005)
	CFRIP®	Strip cables faster: a tear strip is moulded into the outer jacket



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



Properties and approvals

	UV resistance	Medium
Oil resistance		Oil-resistant (according to DIN EN 50363-4-1), Class 2
	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 11113 and 2570, 600 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	6.8 x d
	Min. bend radius, e-chain	132.6 mm
	Min. bend radius, flexible (factor)	5 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)	10 m/s
	v max. gliding (speed)	5 m/s
	a max. (acceleration)	80 m/s ²
	travel length	Class 5
	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	7.5	10	8.5	11	9.5	12
+15 / +60	6.8	7.5	7.8	8.5	8.8	9.5
+60 / +70	7.5	10	8.5	11	9.5	12

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

Certificates and standards

