

Han 6B connector housing (pin) on Han 6B
connector housing (socket), single locking lever,
straight at both ends, PVC 6.8xd

MAT90489362



**Han 6B connector housing (pin) on Han 6B
connector housing (socket), single locking
lever, straight at both ends, PVC 6.8xd**

- 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 6B Connector Housing, designed for heavy-duty applications. This robust connector features a PVC outer jacket that is flame retardant, UV-resistant, and oil resistant, ensuring durability in various environments. With a single locking lever and straight design at both ends, it is perfect for both indoor and outdoor use at temperatures above 5°C. Ideal for storage units, packaging machines, and indoor cranes, this connector is engineered for reliability and performance.

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	10.5 mm
Weight per km	180 kg/km
Copper index kg/km	105 kg/km

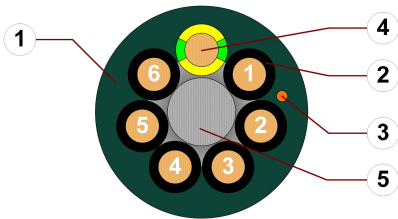


Electricity attributes

	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 a layer with short pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	7G1.5
	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	71.4 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

