

Han 10B connector housing (pin) on Han 10B
connector housing (socket), single locking lever,
straight at both ends, TPE, flame-retardant

MAT90489382



**Han 10B connector housing (pin) on Han 10B
connector housing (socket), single locking
lever, straight at both ends, TPE, flame-
retardant**

- For extremely heavy duty applications
- TPE outer jacket
- Coolant-resistant
- Low-temperature-flexible
- Hydrolysis and microbe-resistant
- Flame retardant
- Silicone-free
- UV-resistant
- PVC-free
- Oil-resistant (following DIN EN 60811-404), resistant to bio oils (following VDMA 24568 with Plantocut 8 S-MB tested by DEA)
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the Han 10B Connector Housing, designed for heavy-duty applications. This robust connector features a single locking lever and is made from flame-retardant TPE, ensuring durability in extreme conditions. It's oil, UV, and hydrolysis resistant, making it suitable for both indoor and outdoor use. With flexibility in low temperatures and compatibility with unsupported travel up to 400m, this connector is ideal for high-bay warehouses, machining units, and more. Trust Han for reliable performance in demanding environments.

Connectors

Connector A

Socket M25 insert 10+PE straight Cable entry

Connector B

Connector M25 insert 10+PE straight Cable entry



General properties

Number of cores and conductor nominal cross-section	12G1.5
Outer diameter (d) max. mm	13.5 mm
Weight per km	309 kg/km
Copper index kg/km	178 kg/km

Electricity attributes

 Nominal voltage	300/500V (according to DIN VDE 0298-3)
UL Voltage Rating	1000 V
 Test voltage	2000V (according to DIN EN 50395)
Maximum conductor resistance at 20°C [μm]	13.3000



Cable structure



Conductor

Stranded conductor in an especially bend-resistant version 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

12G1.5



Outer jacket

Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.



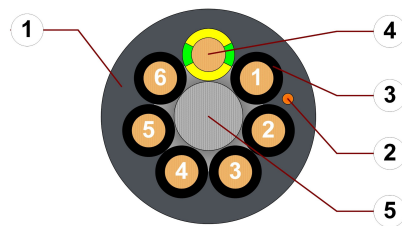
Outer jacket colour

Slate grey (comparable to RAL 7015)



CFRIP®

Strip cables faster: a tear strip is moulded into the outer jacket



1. Outer jacket: pressure extruded, gusset-filling, flame-retardant TPE mixture
2. CFRIP: tear strip for faster stripping
3. Core insulation: mechanically high-quality TPE mixture
4. Conductor: stranded wire in especially flexible version consisting 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	High
	Oil resistance	Oil-resistant (according to DIN EN 60811-404), bio-oil-resistant (according to VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
	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 11886 and 22021, 1000 V, 90 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003X2
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF34.UL.25.04.D - tested by IPA according to standard DIN EN ISO 14644-1
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	5 x d
	Min. bend radius, e-chain	67.5 mm
	Min. bend radius, flexible (factor)	4 x d
	Min. bend radius, fixed (factor)	3 x d
	Temperature e-chain®	-35°C up to +100°C
	Temperature, flexible	-45°C to +100°C (according to DIN EN 60811-504)
	Temperature, fixed	-55°C to +100°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	6 m/s
	a max. (acceleration)	100 m/s ²
	travel length	Class 6
	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,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
-35 / -25	6.8	7.5	8.5
-25 / +90	5	6	7
+90 / +100	6.8	7.5	8.5

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

Certificates and standards

