Han 10B connector housing (pin) on Han 10B connector housing (socket), double locking lever, straight at both ends, PVC 6.8xd

MAT90489394

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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 10B Connector Housing, designed for heavy-duty applications. This reliable connector features a double locking lever and a straight design at both ends, ensuring secure connections. Made from durable PVC, it is flame retardant, UV-resistant, and oil resistant, making it suitable for both indoor and outdoor use in temperatures above 5°C. Ideal for storage and retrieval units, machining and packaging machines, and indoor cranes, it's built to withstand 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

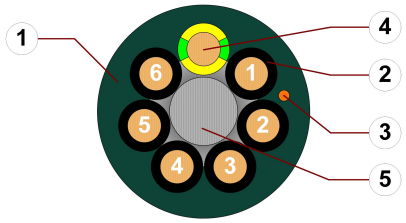
Number of cores and conductor nominal cross-section	12G1.5
Outer diameter (d) max. mm	15 mm
Weight per km	264 kg/km
Copper index kg/km	179 kg/km

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 [/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	12G1.5
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	102 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/s²
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