

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

**MAT90489402**



**Han 10B connector housing (pin) on Han 10B  
connector housing (socket), double locking  
lever, angled 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 10B Connector Housing, designed for heavy-duty applications. This robust connector features a double locking lever and angled ends for secure connections. Made from durable PVC, it is flame retardant, UV-resistant, and oil resistant, ensuring reliable performance in various environments. Ideal for indoor and outdoor use above 5°C, it's perfect for storage units, packaging machines, and indoor cranes. Experience the quality and resilience of the Han 10B series for your toughest tasks.

**Connectors**

|             |                                                |
|-------------|------------------------------------------------|
| Connector A | Socket M25 insert 10+PE lateral Cable entry    |
| Connector B | Connector M25 insert 10+PE lateral 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 |

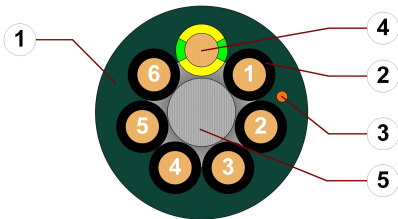


Electricity attributes

|                                                                                  |                                                      |                                        |
|----------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|
|  | 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 [ $\Omega$ /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

|                                                                                    |                        |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | Medium                                                                                                                                   |
|    | <b>Oil resistance</b>  | Oil-resistant (according to DIN EN 50363-4-1), Class 2                                                                                   |
|    | <b>Flame-retardant</b> | According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame                                                                 |
|    | <b>Silicone-free</b>   | Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)                                                |
|    | <b>UL verified</b>     | Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year" |
|    | <b>UL/CSA AWM</b>      | Style 11113 and 2570, 600 V, 80 °C                                                                                                       |
|    | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                  |
|    | <b>Lead-free</b>       | According to 2011/65/EU (RoHS-II/RoHS-III)                                                                                               |
|   | <b>Cleanroom</b>       | According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1                                                 |
|  | <b>CE</b>              | 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/s <sup>2</sup>                           |
|  | 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

