

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

**MAT90489406**



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connector housing (socket), double locking  
lever, angled 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 the heaviest duty applications. This robust housing features a double locking lever and an angled design at both ends, ensuring secure connections. Made from flame-retardant TPE, it offers exceptional resistance to oil, UV, and low temperatures, making it ideal for both indoor and outdoor use. Perfect for high-bay warehouses, machining units, and outdoor cranes, this connector is built to withstand the toughest conditions while remaining flexible and durable.

**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                          | 13.5 mm   |
| Weight per km                                       | 309 kg/km |
| Copper index kg/km                                  | 178 kg/km |

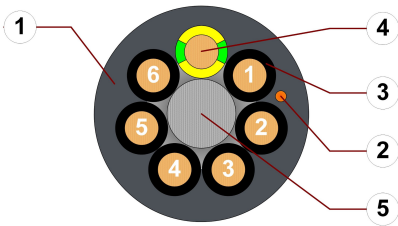


Electricity attributes

|                                                                                  |                                                      |                                        |
|----------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|
|  | 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 [ $\Omega$ /km] | 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

|                                                                                    |                        |                                                                                                                                                           |
|------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | High                                                                                                                                                      |
| <b>Oil resistance</b>                                                              |                        | 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                   |
|    | <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 11886 and 22021, 1000 V, 90 °C                                                                                                                      |
|    | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                                   |
|   | <b>DNV</b>             | Type approval certificate TAE00003X2                                                                                                                      |
|  | <b>Lead-free</b>       | According to 2011/65/EU (RoHS-II/RoHS-III)                                                                                                                |
|  | <b>Cleanroom</b>       | 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 |
|  | <b>CE</b>              | 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 <sup>2</sup>                            |
|  | 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

