

Han 16B connector housing (pin) on Han 16B connector housing (socket), single locking lever, angled at both ends, PVC 12.5xd

**MAT90489416**



**Han 16B connector housing (pin) on Han 16B connector housing (socket), single locking lever, angled at both ends, PVC 12.5xd**

- For flexing applications
- PVC outer jacket
- Flame retardant
- Silicone-free
- Not oil-resistant
- Guarantee up to 4 years

**Product description**

Introducing the Han 16B Connector Housing, designed for flexing applications with a durable PVC outer jacket. This connector features a single locking lever and is angled at both ends, making it ideal for indoor use, particularly in wood and stone processing, packaging, and handling devices. It is flame retardant and silicone-free, ensuring safety and reliability. Perfect for unsupported travels up to 10m, this connector is your go-to solution for efficient and effective connections.

**Connectors**

|             |                                                |
|-------------|------------------------------------------------|
| Connector A | Socket M32 insert 16+PE lateral Cable entry    |
| Connector B | Connector M32 insert 16+PE lateral Cable entry |

**General properties**

|                                                     |           |
|-----------------------------------------------------|-----------|
| Number of cores and conductor nominal cross-section | 18G1.5    |
| Outer diameter (d) max. mm                          | 14.5 mm   |
| Weight per km                                       | 370 kg/km |
| Copper index kg/km                                  | 279 kg/km |

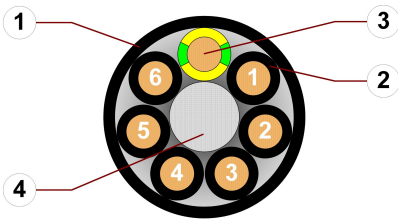


Electricity attributes

|                                                                                  |                                                      |                                   |
|----------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|
|  | Nominal voltage                                      | 300/500V                          |
|                                                                                  | UL Voltage Rating                                    | 300 V                             |
|  | Test voltage                                         | 2000V (according to DIN EN 50395) |
|                                                                                  | Maximum conductor resistance at 20°C [ $\Omega$ /km] | 13.3000                           |

Cable structure

|                                                                                    |                             |                                                                          |
|------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------|
|    | Conductor                   | Conductor consisting of bare copper wires (according to DIN EN 60228).   |
|    | Core insulation             | Mechanically high-quality TPE mixture.                                   |
|    | Core stranding              | Cores wound with an optimised pitch length.                              |
|   | Conductor colours           | cores black with white numbers, one core green-yellow.                   |
|                                                                                    | Core group 1 core structure | 18G1.5                                                                   |
|  | Outer jacket                | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®. |
|  | Outer jacket colour         | Jet black (comparable to RAL 9005)                                       |



- 1. Outer jacket: pressure-extruded PVC mixture
- 2. Core insulation: mechanically high-quality TPE mixture
- 3. Conductor: made of bare copper wires
- 4. Filler: plastic yarns



## Properties and approvals

|                                                                                    |                        |                                                                                                                                      |
|------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | none                                                                                                                                 |
|    | <b>Oil resistance</b>  | No oil resistance                                                                                                                    |
|    | <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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year" |
|    | <b>UL/CSA AWM</b>      | Style 10493 and 2464, 300 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>CE</b>              | According to 2014/35/EU                                                                                                              |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 12.5 x d                                      |
|    | Min. bend radius, e-chain           | 181.25 mm                                     |
|    | Min. bend radius, flexible (factor) | 10 x d                                        |
|    | Min. bend radius, fixed (factor)    | 7 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)          | 3 m/s                                         |
|   | v max. gliding (speed)              | 0 m/s                                         |
|  | a max. (acceleration)               | 20 m/s <sup>2</sup>                           |
|  | travel length                       | Class 1                                       |
|  | torsion                             | No torsion                                    |



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

| Double strokes* | 1 million  | 3 million  | 5 million  |
|-----------------|------------|------------|------------|
| Temperature,    | R min.     | R min.     | R min.     |
| from/to [°C]    | [Factorxd] | [Factorxd] | [Factorxd] |
| +5 / +15        | 15         | 16         | 17         |
| +15 / +60       | 12.5       | 13.5       | 14.5       |
| +60 / +70       | 15         | 16         | 17         |

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

Certificates and standards

