

Han 24B connector housing (pin) on Han 24B connector housing (socket), single locking lever, angled at both ends, TPE, halogen-free

MAT90489453



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- For heaviest duty applications
- TPE outer jacket
- Coolant-resistant
- Low-temperature-flexible
- Hydrolysis and microbe-resistant
- Halogen-free
- 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 24B Connector Housing, designed for the toughest applications. This robust housing features a TPE outer jacket that is halogen-free, UV-resistant, and flexible in low temperatures. With its single locking lever and angled design at both ends, it ensures secure connections. Ideal for both indoor and outdoor use, it offers exceptional resistance to oil, including bio-oils. Perfect for high-bay warehouses, machining units, and outdoor cranes, this connector housing is built to withstand the elements.

Connectors

Connector A	Socket M32 insert 24+PE lateral Cable entry
Connector B	Connector M32 insert 24+PE lateral Cable entry

General properties

Number of cores and conductor nominal cross-section	25G1.5
Outer diameter (d) max. mm	19 mm
Weight per km	585 kg/km
Copper index kg/km	371 kg/km



Electricity attributes

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

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
	Silicone-free	Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)
	Halogen-free	According to DIN EN 60754
	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 AWM	Style 11886 and 22351, 1000 V, 90 °C
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 1, material/cable tested by IPA according to DIN EN ISO standard 14644-1
	CE	According to 2014/35/EU



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		25G1.5
	Outer jacket	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Steel blue (comparable to RAL 5011)
	CFRIP®	Strip cables faster: a tear strip is moulded into the outer jacket



Dynamic properties

	Min. bend radius, e-chain (factor)	5 x d
	Min. bend radius, e-chain	95 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	-50°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	12.5 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

