

Han 6B connector housing (pin) on Han 6B connector housing (socket), single locking lever, angled at both ends, TPE, halogen-free

MAT90489373



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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 6B Connector Housing, crafted for the heaviest duty applications. This robust connector features a TPE outer jacket that is halogen-free, UV-resistant, and oil-resistant, making it ideal for both indoor and outdoor use. With a single locking lever and angled design at both ends, it ensures secure connections while remaining flexible in low temperatures. Perfect for high-bay warehouses, machining units, and outdoor cranes, this connector is built to withstand the toughest environments.

Connectors

Connector A	Socket M20 insert 6+PE lateral Cable entry
Connector B	Connector M20 insert 6+PE lateral Cable entry

General properties

Number of cores and conductor nominal cross-section	7G1.5
Outer diameter (d) max. mm	9.5 mm
Weight per km	159 kg/km
Copper index kg/km	104 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

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 a layer with short pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	7G1.5
	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



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



Dynamic properties

	Min. bend radius, e-chain (factor)	5 x d
	Min. bend radius, e-chain	47.5 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	-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

