

Han 16B connector housing (pin) on Han 16B
connector housing (socket), single locking lever,
straight at both ends, PUR 10xd

MAT90489415



**Han 16B connector housing (pin) on Han 16B
connector housing (socket), single locking
lever, straight at both ends, PUR 10xd**

- Use: For torsion applications
- Outer jacket: PUR
- Coolant-resistant
- Notch-resistant
- Hydrolysis and microbe-resistant
- Flame retardant
- Halogen-free
- Silicone-free
- UV-resistant
- PVC-free
- Oil resistance: Oil-resistant (based on DIN EN 50363-10-2)
- chainflex® class: 6.1.3.3

Product description

Introducing the Han 16B Connector Housing, designed for the toughest applications with torsion movements. This robust housing features a single locking lever and is made from durable PUR material, ensuring it is resistant to oil, UV, and harsh conditions. Ideal for both indoor and outdoor use, it's perfect for robots, 3D movements, and lead screw drives. Enjoy peace of mind with its flame retardant, hydrolysis and microbe-resistant properties, making it a reliable choice for demanding environments.

General properties

Number of cores and conductor nominal cross-section	16G1.0+(2x1.0)C
Copper index kg/km	194 kg/km
Core group 1 core structure	16G1.0

Dimensions

Outer diameter (d) max. mm	15.5 mm
Weight per km	307 kg/km



Connectors

Connector A	Socket M32 insert 16+PE straight Cable entry
Connector B	Connector M32 insert 16+PE straight Cable entry
Insert 1 HARTING Part No.	09330162702
Insert 2 HARTING Part No.	09330162602
Housing 1 HARTING Part No.	19300161442
Housing 2 HARTING Part No.	19300161442
Housing series	Han 16B
Connector design	straight cable entry on both sides
Locking type	single locking lever

Electricity attributes

	Nominal voltage	300/500V (according to DIN VDE 0298-3)
	Test voltage	2000V (according to DIN EN 50395)

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.
	Outer jacket	Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).
	Outer jacket colour	Steel blue (comparable to RAL 5011)



Properties and approvals

	UV resistance	High
	Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
	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
	EAC	Certificate No. RU C-DE.ME77.B.00300/19
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1
	CE	According to 2014/35/EU
	Flame-retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame
	NFPA	According to NFPA 79-2018, chapter 12.9
	UKCA	In accordance with the valid regulations of the United Kingdom (as of 08/2021)



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	155 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, flexible	124 mm
	Min. bend radius, fixed (factor)	5 x d
	Min. bend radius, fixed	77.5 mm
	Temperature e-chain®	-25°C up to +80°C
	Temperature, flexible	-40°C to +80°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +80°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	travel length	Class 1
	v max., twisted (speed)	180 °/m
	torsion	Torsion ±180°, with 1m cable length, Class 3



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Cycles*			5 million	7.5 million	10 million
Temperature,	v max. [°/s]	a max. [°/s²]	Torsion max.	R min. [Factor x d]	R min. [Factor x d]
from/to [°C]	twisted	twisted	[°/m]	[°/m]	[°/m]
-25 / -15			±150	±90	±30
-15 / +70	180	60	±180	±120	±60
+70 / +80			±150	±90	±30

* Higher number of cycles possible - please ask for your individual calculation.

Certificates and standards

