

Han F+B Hybrid male

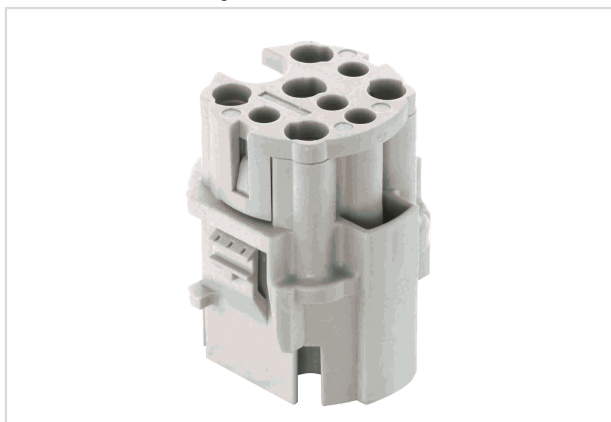


Image is for illustration purposes only. Please refer to product description.

Part number	09 15 512 3002
Specification	Han F+B Hybrid male
HARTING eCatalogue	https://b2b.harting.com/09155123002

Identification

Category	Inserts
Series	Han [®] F+B

Version

Termination method	Crimp termination
Gender	Male
Number of contacts	12
Number of data contacts	4
Number of signal contacts	4
Number of power contacts	4
PE contact	Yes
Details	Please order crimp contacts separately. 4x Han E [®] 4x Han D [®] 4x M12 for data element incl. Ethernet element

Technical characteristics

Conductor cross-section	0.14 ... 4 mm ²
Rated current (signal)	10 A
Rated voltage (signal)	250 V
Rated impulse voltage (signal)	4 kV
Pollution degree (signal)	3
Rated current (power)	20 A



Technical characteristics

Rated voltage (power)	400 V
Rated impulse voltage (power)	6 kV
Pollution degree (power)	3
Transmission characteristics	Cat. 5 Class D up to 100 MHz
Data rate	10 Mbit/s 100 Mbit/s
Insulation resistance	$>10^{10} \Omega$
Limiting temperature	-40 ... +125 °C
Mating cycles	≥ 500
Mating cycles with other HMC components	$\geq 3,000$

Material properties

Material (insert)	Polycarbonate (PC)
Colour (insert)	RAL 7032 (pebble grey)
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel Lead

Commercial data

Packaging size	1
Net weight	22 g
Country of origin	Germany
European customs tariff number	85366990
eCI@ss	27440205 Contact insert for industrial connectors

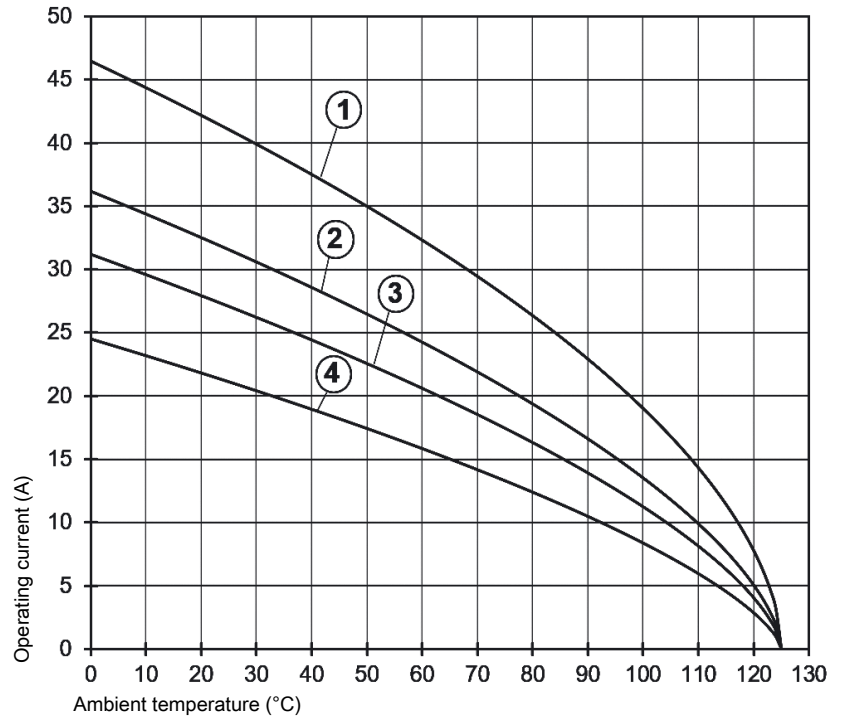


Pushing Performance

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



- Han F[®] 4 mm², Han D[®] 2.5 mm² 10 A
- Han E[®] 2.5 mm², Han D[®] 2.5 mm² 10 A
- Han E[®] 1.5 mm², Han D[®] 2.5 mm² 10 A
- Han E[®] 1,0 mm², Han D[®] 2,5 mm² 10 A