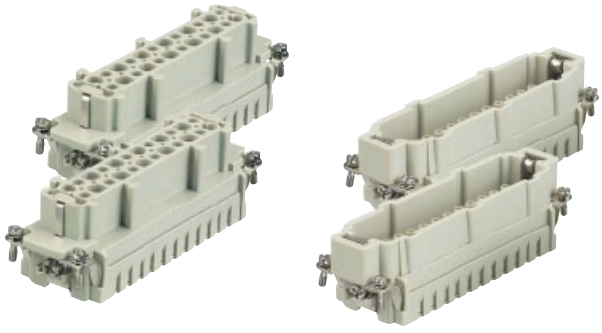
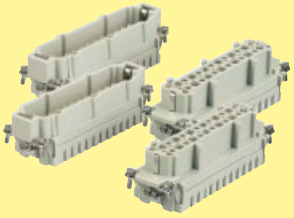
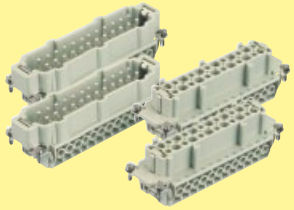
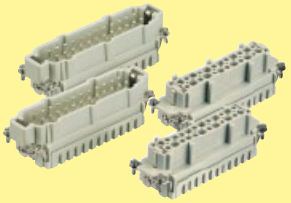
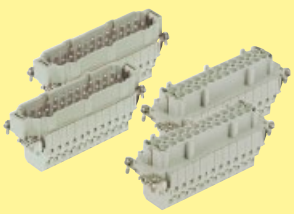
Number of contacts

48 + ⏚

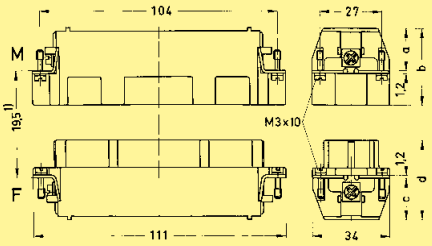


Inserts

Han E / EE

Identification	Series	Part number Male insert (M)	Part number Female insert (F)
Crimp terminal Order crimp contacts separately (see Technical characteristics on page 03.03)	Han E®		
	1 - 24	**09 33 024 2602**	**09 33 024 2702**
	25 - 48	09 33 024 2612	09 33 024 2712
Screw terminal with wire protection	Han E®		
	1 - 24	**09 33 024 2601**	**09 33 024 2701**
	25 - 48	**09 33 024 2611**	**09 33 024 2711**
Cage-clamp terminal	Han® ES		
	1 - 24	**09 33 024 2616**	**09 33 024 2716**
	25 - 48	09 33 024 2626	09 33 024 2726
Cage-clamp terminal two terminals per contact	Han® ESS		
	1 - 24	**09 33 024 2672**	**09 33 024 2772**
	1 - 24	**09 33 024 2672**	**09 33 024 2772**

Drawing

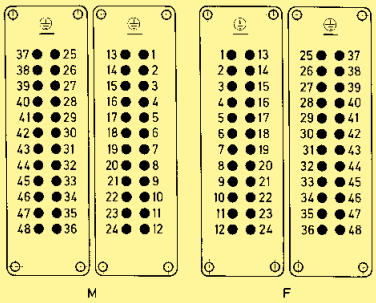


1) Distance for contact max. 21 mm

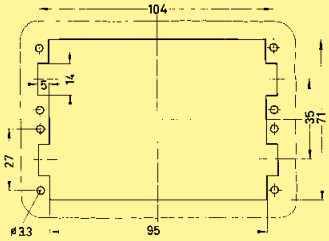
Dimensions in mm

	a	b	c	d
Han E® screw	18	33	18	35
Han® ES / Han E® crimp	19	34	19	36
Han® ESS	34	49	32	49

Contact arrangement
view from termination side



Panel cut out



Stock items in bold type

Features

- Available in different termination techniques
  - Han E® Crimp terminal
  - Han E® Screw terminal
  - Han® ES Cage-clamp terminal
  - Han® ESS Cage-clamp terminal
  - Han® EE Crimp terminal
  - Han® EEE Crimp terminal
- Han E® covers a wide range of cross core sections
- Wire protection for Han E® screw

Specifications

DIN EN 60 664-1
DIN EN 61 984

Approvals

Inserts

Number of contacts	6, 10, 16, 24, 32 (2x 16), 48 (2x 24) + PE
Electrical data acc. to EN 61 984	**16 A 500 V 6 kV 3**
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Insulation resistance	≥ 10^{10} Ω
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface - hard-gold plated	2 µm Au over 3 µm Ni
Surface - hard-silver plated	3 µm Ag
Contact resistance	≤ 1 mΩ
Crimp terminal - min	0.14 mm² / AWG 26
Crimp terminal - max	4 mm² / AWG 12
Screw terminal - min	0.14 mm² / AWG 26
Screw terminal - max	2.5 mm² / AWG 14
Tightening/test torque	0.5 Nm
Stripping length	7 mm

Hoods/Housings

Material	aluminium die-cast
Surface	powder-coated
Locking element	Han-Easy Lock®
Flammability acc. to UL 94	V 0
Hoods/Housings seal	NBR
Limiting temperatures	-40 °C ... +125 °C
Degree of protection acc. to DIN EN 60 529 for coupled connector	IP 65

Further selection of hoods/housings see chapter 30 / chapter 31

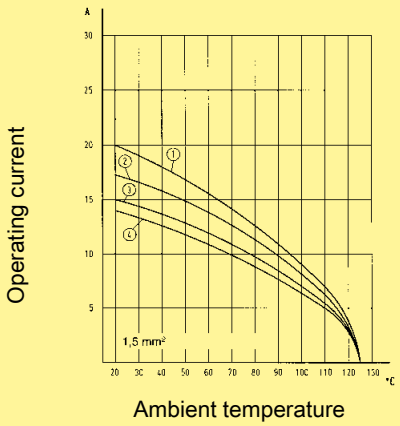
Accessories

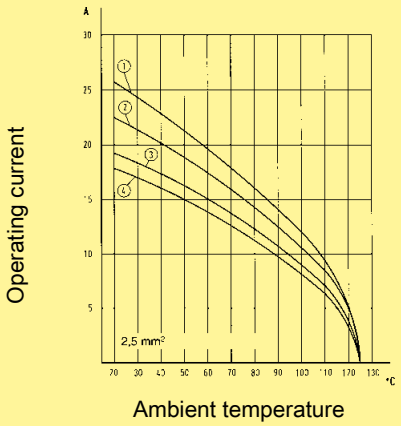
Crimping tools	chapter 99
Cable clamps	chapter 40
Coding of hoods/housings	chapter 40
Label acc. to CSA-approval	chapter 40
Han-Snap®	chapter 11
Assembly plates for test connector	chapter 40
Special insert fixing screws	chapter 40

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 according to DIN EN 60 512-5

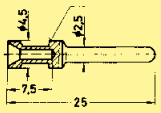


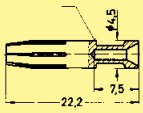


① Han® 6 E
② Han® 10 E
③ Han® 16 E
④ Han® 24 E

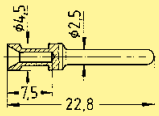
Identification	Wire gauge (mm²)	Part number Male contact	Part number Female contact
Crimp contacts			
Power contacts			
silver plated	0.14-0.37	09 33 000 6127	09 33 000 6227
	0.5	**09 33 000 6121**	**09 33 000 6220**
	0.75	**09 33 000 6114**	**09 33 000 6214**
	1	**09 33 000 6105**	**09 33 000 6205**
	1.5	**09 33 000 6104**	**09 33 000 6204**
	2.5	**09 33 000 6102**	**09 33 000 6202**
	3	09 33 000 6106	09 33 000 6206
	4	**09 33 000 6107**	**09 33 000 6207**
gold plated	0.14-0.37	**09 33 000 6117**	**09 33 000 6217**
	0.5	**09 33 000 6122**	**09 33 000 6222**
	0.75	**09 33 000 6115**	**09 33 000 6215**
	1	**09 33 000 6118**	**09 33 000 6218**
	1.5	**09 33 000 6116**	**09 33 000 6216**
	2.5	**09 33 000 6123**	**09 33 000 6223**
	4	09 33 000 6119	**09 33 000 6221**
Relay contact silver plated	0.75-1	09 33 000 6109	
	1.5	09 33 000 6110	
	2.5	09 33 000 6111	
F.O. contacts			
for 1 mm plastic fibre		20 10 001 3311	20 10 001 3321
Coding pin			
for crimp inserts only			09 33 000 9954

Operating contact Identification





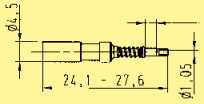
Relay contact

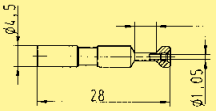


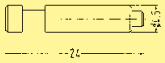
Dimensions in mm

Identification	Wire gauge		Stripping length
no groove	0.14-0.37 mm²	AWG 26-22	7.5 mm
no groove	0.5 mm²	AWG 20	7.5 mm
1 groove*	0.75 mm²	AWG 18	7.5 mm
1 groove	1 mm²	AWG 18	7.5 mm
2 grooves	1.5 mm²	AWG 16	7.5 mm
3 grooves	2.5 mm²	AWG 14	7.5 mm
wide groove	3 mm²	AWG 12	7.5 mm
no groove	4 mm²	AWG 12	7.5 mm

* on the back crimp collar







Use of the coding pin prevents incorrect mating to other connectors of the same type. The male pin should be omitted from the opposing cavity in the male insert.

Crimp contacts 0.14 ... 0.37 mm² only used with BUCHANAN crimping tool 09 99 000 0001

Stock items in bold type