

127 / HE8

The well proven technology

The 127 series is a medium-density range of multi-contact plug-in connectors for printed circuit boards. This range of 2.54 [.100] staggered grid, low profile connectors meets the common harsh environmental requirements.

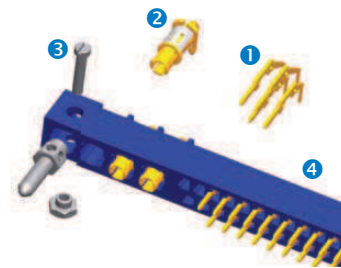
A wide range of fittings and guides, as well as numerous contact terminations, provide more flexibility to PCB designers.

A well-proven technology

- The 127 series is a medium-density range of multi-contact plug-in connectors for printed circuit boards. This range of 2.54 [.100] staggered grid, low profile connectors meets the common harsh environmental requirements.
- The contact technology is based on the tuning fork and blade concept. Using advanced copper alloys provides optimized electrical conductivity as well as long-term mechanical reliability.

A large choice of attachments on Printed Circuit Boards

- Different styles, from 17 to 144 contacts with various terminations: straight, right angled 90°, crimp barrel, solder cup, SMT and wire-wrapping.
- Hybrid patterns, with a combination of 3 to 10 special cavities, permit the usage of coaxial, power contacts, as well as optical terminations.



The 127 series connectors are available in 3 different versions: HE801 / HE804 / HE807

QUICK SELECTION GUIDE

Signal contacts ①		Special contacts ②	Keying & Guiding ③	Connector type
<p>FEMALE</p>	<p>MALE</p>	<p>POWER 10A</p> <p>POWER 20A</p> <p>COAXIAL</p>	<p>NON KEYING</p> <p>KEYING</p> <p>LOCKING</p> <p>NON LOCKING</p>	<p>HE801 Round male contact Standard molding size</p> <p>HE804 Rectangular male contact Molding smaller in size</p> <p>HE807 Hybrid cavities</p>
PAGE 52	PAGE 53	PAGE 54	PAGE 56	PAGE 51

The 127 series serves various markets, including:



Military avionics & airframe



Commercial avionics & airframe



C4ISR



Ground vehicle



Industrial

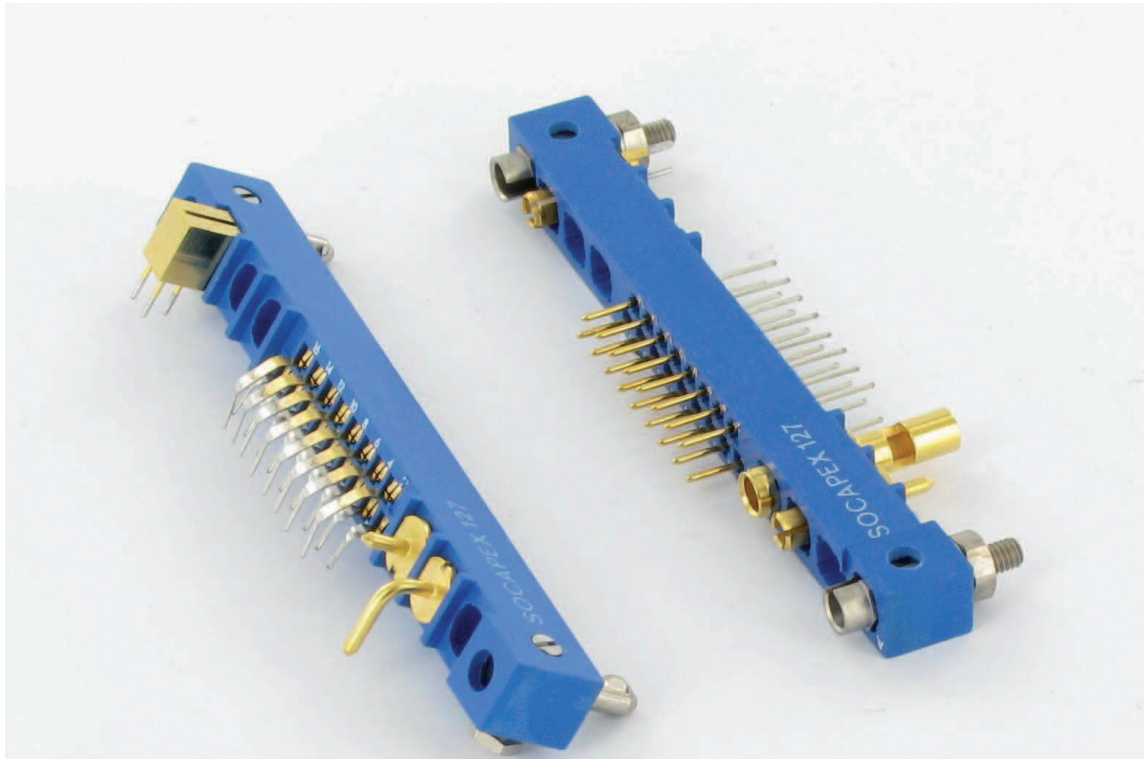
This proven range of PCB connectors complies with numerous international standards:

NFC UTE 93424
HE801, HE804 & HE807

BS9525
N0001, F0006, F0007

MIL-DTL-55302
140 to 155

All dimensions are given for information only and are in mm [inch], except as otherwise specified



127 Series

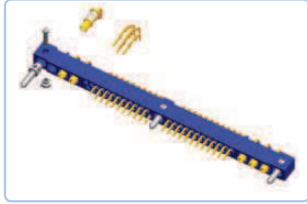
B

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Proven, reliable and robust connectors

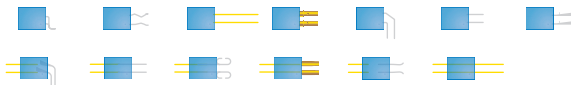
B p d t r g	98
Signal contacts	Q
Special contacts	104
Female fittings for receptacles	106
Male fittings for plugs	110
Typical arrangements and layouts, signal connectors (HE801&HE804)	114
Typical arrangements and layouts, hybrid connectors (HE807)	116
Tooling.....	119
Fittings & contacts compatibility	D

127 / HE8 >>> GENERAL SPECIFICATIONS

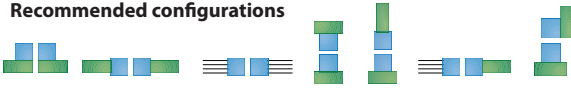


- 2.54 [.100] staggered grid (1.27 [.050] offset), 2.54 [.100] between rows
- Proven, reliable and robust rectangular PCB connectors
- Numerous contact terminations and fittings
- Hybrid patterns with power or coax contacts

Terminations



Recommended configurations



Standards

NFC UTE 93424
HE801, HE804 & HE807

BS9525
N0001, F0006, F0007

MIL-DTL-55302
140 to 155

Main characteristics

- Density: 0.11 cts / mm² [71 cts / inch²]
- 17 to 144 signal contacts
- 0 to 10 special contacts
- 3 A per signal contacts
- Fully compatible with all the standard connectors HE801, HE804 & HE807 on the market

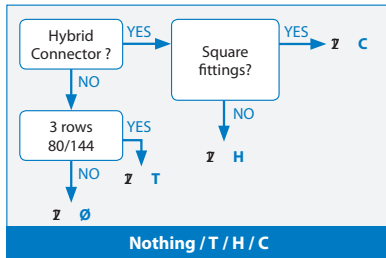
Markets



Main applications



How to order

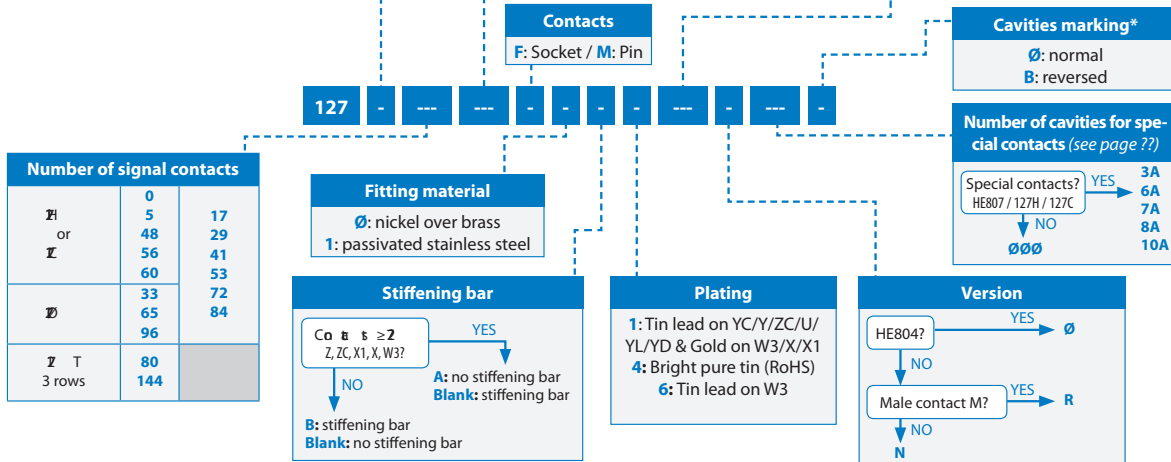


Reference	Codable	Lockable
Fittings for receptacle (X: No fittings)		
K / A / P / B / KE / AE / L	Yes	No
S / D / SC / DC	No	Yes
KD / AD / KED / AED / KT / AT / KET / AET	Yes	Yes
Fittings for plug (XL: No fittings)		
A / J / H / N / V / E / R	Yes	No
PA / PC / T	No	No
D / S / NF / EF / RF	No	Yes
AS / JS / NS / ES / RS / ET / RT	Yes	Yes

Fittings (see pages 106 to 113)

Socket	Pin	Description
YC		Right angle PC tail
YL		Long right angle PC tail
T		SMT with metallized terminals
U		SMT double sided
Y		Straight PC tail
YD		Straight PC tail (for HE804 connector only)
W3		Wire wrap connections
Z	ZC	Solder on wire
X1**	X**	Crimping tail
ØØ	ØØ	No signal contacts (HE807)

Signal contacts (see pages 102 to 105)

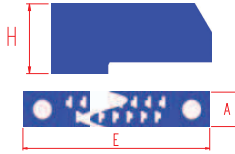


* Asymmetrical arrangements with female contacts always have plug marking. Asymmetrical arrangements with male contacts always have receptacle marking.
** Not available for HE801 and HE807 connectors.

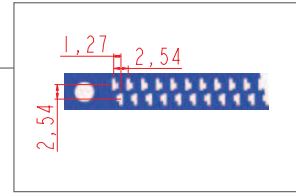
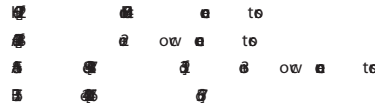
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127 / HE8 >>> TECHNICAL SPECIFICATIONS

DIMENSIONAL CHARACTERISTICS



H = 7.9 [.311] for HE801 & HE807 connectors



FEMALE CONTACT

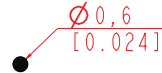


- Female tuning fork contact**
- Compatible with other technologies

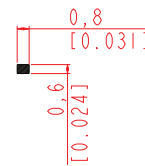
- Material**
- CuSn9P (blade)

- Plating**
- Terminations: gold on W3, X & X1 and tin lead or bright pure tin on YD, Y, Z, YC, YL, T & U
 - Active contact area: gold

MALE CONTACT



- For HE801 & HE807 connectors
- Contact section: 0.36 mm² [.0004 inch²]



- For HE804 connectors
- Contact section: 0.48mm² [.0007 inch²]

Material: CuZn (blade)

- Plating**
- Terminations: gold on W3, X & X1 and tin lead or bright pure tin on YD, Y, Z, YC, YL, T & U
 - Active contact area: gold

MARKING

Plug marking



Receptacle marking

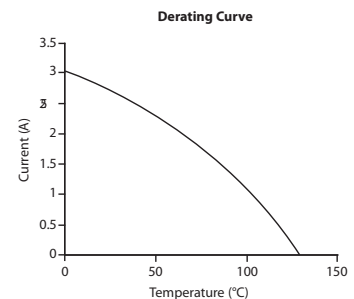


MATERIALS

- Fittings:** electroless nickel over brass or passivated stainless steel (303 ASTM)
- Plastic insert:** thermoset DAP, 30% glass-fiber filled

	HE801	HE804	HE807
MECHANICAL CHARACTERISTICS			
Backoff¹ (mm)	1 MAX [.039]	1 MAX [.039]	1 MAX [.039]
Mating force per contact (N)	1.60 MAX	1.60 MAX	1.60 MAX
Unmating force per contact (N)	0.14 MIN	0.14 MIN	0.14 MIN
Durability cycles	500	500	∅
Vibrations (20 to 2000 Hz) micro discontinuity 1µs	10 g	10 g	10 g
Shocks micro discontinuity 1µs	100 g	100 g	100 g
Recommended tightening torques			
- nuts for Ø 1.6mm screws, brass m.N	0.15	0.15	0.15
ENVIRONMENTAL CHARACTERISTICS			
Thermal shocks (°C)	∅	∅	∅
Salt Spray hours	96	96	96
ELECTRICAL CHARACTERISTICS			
Current rating per contacts (A)	See derating curve	See derating curve	See derating curve
Insulation resistance (GΩ)	5 MIN	5 MIN	5 MIN
Contact resistance (mΩ)	2 MAX	2 MAX	2 MAX
Dielectric Withstanding Voltage (Vrms)	1 000	1 000	1 000
Capacitance between contacts (pF)	5 MAX	5 MAX	5 MAX
Service voltage at 50 Hz (Vrms)	∅	∅	∅

¹: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly

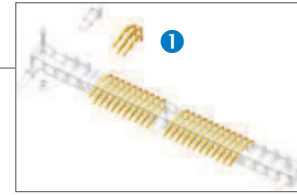


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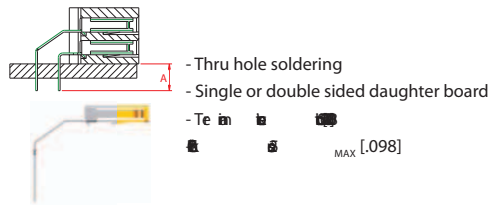


127 / HE8 >>> SIGNAL CONTACTS (1)

FEMALE CONTACTS



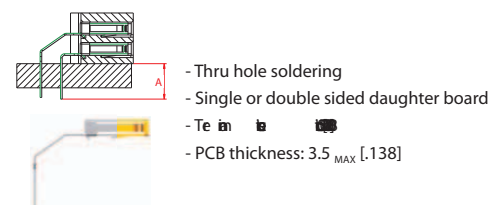
Right angle PC tail



- Thru hole soldering
- Single or double sided daughter board
- Te in
- MAX [.098]

Termination style **YC**

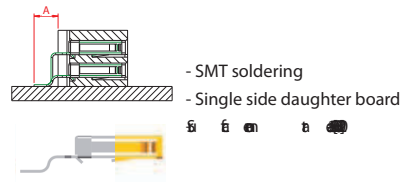
Long right angle PC tail



- Thru hole soldering
- Single or double sided daughter board
- Te in
- PCB thickness: 3.5 MAX [.138]

Termination style **YL**

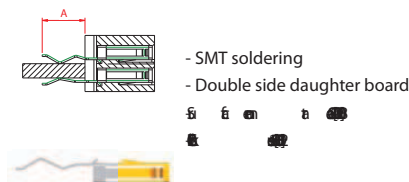
SMT single side



- SMT soldering
- Single side daughter board
-

Termination style **T**

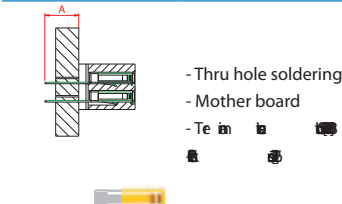
SMT double side



- SMT soldering
- Double side daughter board
-

Termination style **U**

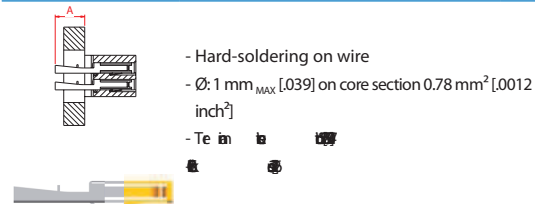
Straight PC tail



- Thru hole soldering
- Mother board
- Te in

Termination style **YD/Y**

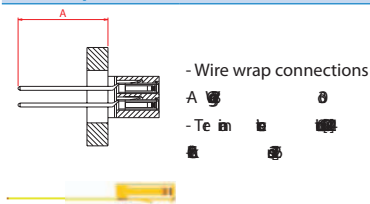
Solder cup



- Hard-soldering on wire
- Ø: 1 mm MAX [.039] on core section 0.78 mm² [.0012 inch²]
- Te in

Termination style **Z**

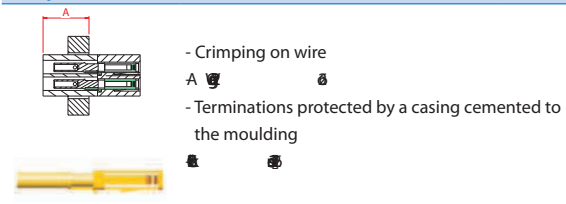
Wire-wrap



- Wire wrap connections
- A
- Te in

Termination style **W3**

Crimp barrel



- Crimping on wire
- A
- Terminations protected by a casing cemented to the moulding

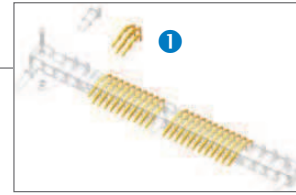
Termination style **X1**

	YC	YL	T	U	YD	Y	Z	W3	X1	
A _{MAX} for HE801/HE807			Ø	Ø					Ø	
A _{MAX} for HE804	3 [.118]	4 [.157]	3.8 [.150]	Ø	4.7 [.185]	4.9 [.193]	4.5 [.177]	14.1 [.555]	8 [.315]	
Active contact area plating µm [µin]	1 [.040] Au						1 [.040] Au			
Termination plating µm [µin]	b or bright pure Sn for RoHS version						1 [.040] Au			

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127 / HE8 >>> SIGNAL CONTACTS (1)

MALE CONTACTS



Right angle PC tail

- Thru hole soldering
- Single or double sided daughter board
- Termination section: 0.35 x 0.35 [.014 x .014]

Termination style **YC**

Long right angle PC tail

- Thru hole soldering
- Single or double sided daughter board
- Termination section: 0.35 x 0.35 [.014 x .014]
- PCB thickness: 3.7 [.146]

Termination style **YL**

Straight PC tail

- Thru hole soldering
- Mother board
- Termination section: 0.35 x 0.35 [.014 x .014]

Termination style **Y**

SMT double side

- SMT soldering
- Double sided daughter board

Termination style **U**

Solder cup

- Hard-soldering on wire
- $\varnothing: 1_{MAX} [.039]$ on core section $0.78 \text{ mm}^2 [.0012 \text{ inch}^2]$

Termination style **ZC**

Wire-wrap

- Wire wrap connections
- Termination section: \varnothing

Termination style **W3**

The mention → or ← means the contact removal direction.

Crimp barrel

- Crimping on wire
- Terminations protected by a casing cemented to the moulding

Termination style **X**

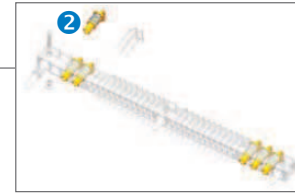
	YC	YL	Y	U	ZC	W3	X
A_{MAX} for HE801/HE807	3	5	5.05 [.199]	5	4.3 [.169]	15.05 [.593]	8
A_{MAX} for HE804			5 [.197]	5	5	8	8 [.315]
Active contact area plating $\mu\text{m} [\mu\text{in}]$	1 [.040] Au					1 [.040] Au	
Termination plating $\mu\text{m} [\mu\text{in}]$	b or bright pure Sn for RoHS version					0.2 [.008] Au	

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127 Series

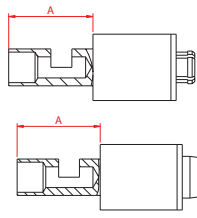
127 / HE8 >>> SPECIAL CONTACTS (2)

POWER CONTACTS**



Current rating 10A

Solder cup

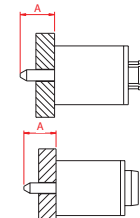


- Hard soldering on wire
- Wire termination
- Termination section: Ø
- Current rating 10A



Pin	M121*
Socket	F121*

Straight PC tail

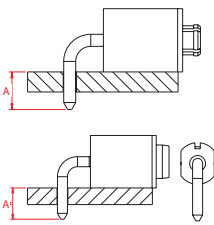


- Thru hole soldering
- Mother board termination
- PCB thickness: up to 3.2_{MAX} [126]
- Current rating 10A



Pin	M141*
Socket	F141*

Right angle PC tail



- Thru hole soldering
- Daughter board termination
- Current rating 10A

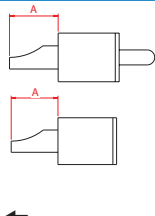


Pin	M132*
Socket	F132*

Current rating at 5V (A)	10
Maximum current rating at 5V (A)	15
Contact resistance (mΩ)	2 _{MAX}
Operating temperature rise (°C)	0 _{MAX}
Contact retention (N)	50 _{MIN}
Insertion and extraction force per contact (N)	f ≤ F ≤ 15

Current rating 20A

Solder cup

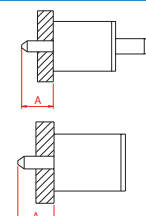


- Hard soldering on wire
- Wire termination
- Current rating 20A



Pin	MH1*
Socket	FH1*

Straight PC tail



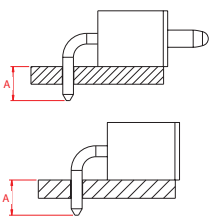
- Thru hole soldering
- Mother board termination
- Termination section: 1.4 [053]
- Current rating 20A



Pin	MH2*
Socket	FH2*

Current rating at 5V (A)	0
Contact resistance (mΩ)	2 _{MAX}
Operating temperature rise (°C)	0 _{MAX}
Contact retention (N)	50 _{MIN}
Insertion and extraction force per contact (N)	f ≤ F ≤ 15

Right angle PC tail



- Thru hole soldering
- Daughter board termination
- Current rating 20A



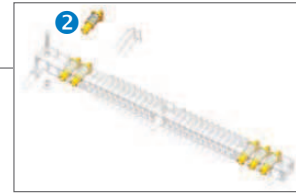
Pin	MH3*
Socket	FH3*

	M121/F121	M141/F141	M132/F132	MH1/FH1	MH2/FH2	MH3/FH3
A _{MAX}	Ø	3.8 [.150]	3.8 [.150]	Ø	Ø	3.8 [.150]
Central contact area plating µm [µin]	1.2 [.047] Au					
Other plating area µm [µin]	0.4 [.016] Au					

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127 / HE8 >>> SPECIAL CONTACTS (2)

COAXIAL CONTACTS**



Straight PC tail

- Thru hole soldering
- Mother board
- Te in

Pin	M041*
Socket	F041*

Right angle PC tail

- Thru hole soldering
- Daughter board
- Te in
- PCB thickness: 1.6 to 2.4 [.063 to .095]

Pin	M032*
Socket	F032*

Straight on flexible cable

- Hard-soldering on flexible cable

Pin	M011*
Socket	F011*

Straight on flexible cable

- Hard-soldering on flexible cable
- Wire

Pin	M021*
Socket	F021*

COAXIAL CONTACTS	
Impedance (Ω)	50
Voltage rating (Vrms)	180
Current rating (mA)	500
Contact retention (N)	50 _{MIN}
Frequency range (GHz)	0 to 1
Contact resistance (mΩ)	2 _{MAX}
SWR (at 1 GHz)	1.3 _{MAX}
Insertion and extraction force per contact (N)	1 ≤ F ≤ 15

OPTICAL TERMINI

Consult us.

	M041/F041	M021/F021	M011/F011	M032/F032
A _{MAX}	3.8 [.150]	⌀	⌀	⌀
B _{MAX}				⌀
Central contact area plating μm [μin]		⌀	⌀	⌀
Other plating area μm [μin]		⌀	⌀	⌀

* Coaxial contacts and power contacts have to be ordered separately against the here above part number. Example: F011

** These contacts can be mounted in all types of connectors 127H-127C/HE807.

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127 / HE8 >>> FEMALE FITTINGS (3)

END FITTINGS FOR RECEPTACLES**



Codable & Non lockable fittings

K									
	- Chassis or mother board - Fixed receptacle Compatibility - Female contact: 801 / 804 / 807 - Male contact: 807 - Nickel over brass*								
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801 / 807</td> <td>212</td> <td>229</td> </tr> <tr> <td>HE 804</td> <td>201</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 801 / 807	212	229	HE 804	201
	EF	CF							
HE 801 / 807	212	229							
HE 804	201	202							

A									
	- Chassis or mother board - Fixed receptacle Compatibility - Male contact: 801 / 804 - Nickel over brass*								
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>212</td> <td>229</td> </tr> <tr> <td>HE 804</td> <td>201</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 801	212	229	HE 804	201
	EF	CF							
HE 801	212	229							
HE 804	201	202							

P									
	- Chassis - Floating receptacle Compatibility - Female contact: 801 / 804 - Nickel over brass*								
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>203</td> <td>202</td> </tr> <tr> <td>HE 804</td> <td>203</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 801	203	202	HE 804	203
	EF	CF							
HE 801	203	202							
HE 804	203	202							

B									
	- Chassis - Floating receptacle Compatibility - Male contact: 801 / 804 - Nickel over brass*								
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>203</td> <td>202</td> </tr> <tr> <td>HE 804</td> <td>203</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 801	203	202	HE 804	203
	EF	CF							
HE 801	203	202							
HE 804	203	202							

P						
	- Chassis - Floating receptacle Compatibility - Female contact: 807 - Male contact: 807 - Nickel over brass *					
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 807</td> <td>226</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 807	226
	EF	CF				
HE 807	226	202				

L						
	- Chassis or mother board - With insulating washer Compatibility - Female contact: 804 - Nickel over brass *					
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 804</td> <td>228</td> <td>202</td> </tr> </tbody> </table>		EF	CF	HE 804	228
	EF	CF				
HE 804	228	202				

KE									
	- Daughter board or board to board mating - Free receptacle - with bracket - Connection board to board aligned with each other Compatibility - Female contact: 801 / 807 - Male contact: 807 - Nickel over brass *								
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>208</td> <td>209</td> </tr> <tr> <td>HE 807</td> <td>208</td> <td>208</td> </tr> </tbody> </table>		EF	CF	HE 801	208	209	HE 807	208
	EF	CF							
HE 801	208	209							
HE 807	208	208							

AE						
	- Daughter board or board to board mating - Free receptacle - with bracket - Connection board to board aligned with each other Compatibility - Male contact: 801 - Nickel over brass *					
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>208</td> <td>209</td> </tr> </tbody> </table>		EF	CF	HE 801	208
	EF	CF				
HE 801	208	209				

KE						
	- Daughter board or board to board mating - Free receptacle - with bracket - Connection board to board aligned with each other Compatibility - Female contact: 804 - Nickel over brass *					
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 804</td> <td>209</td> <td>209</td> </tr> </tbody> </table>		EF	CF	HE 804	209
	EF	CF				
HE 804	209	209				

AE						
	- Daughter board or board to board mating - Free receptacle - with bracket - Connection board to board aligned with each other Compatibility - Male contact: 804 - Nickel over brass *					
	<table border="1"> <thead> <tr> <th></th> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 804</td> <td>209</td> <td>209</td> </tr> </tbody> </table>		EF	CF	HE 804	209
	EF	CF				
HE 804	209	209				

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FEMALE FITTINGS (3)

END FITTINGS FOR RECEPTACLES**



Non codable & lockable fittings

S

- Cables, free receptacle
- Locking device-extractor - tapped female fitting
- Locking and unlocking shall be carried out simultaneously at both ends

Compatibility

- Female contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	219	229
HE 804	220	202

D

- Cables, free receptacle
- Locking device-extractor - tapped female fitting
- Locking and unlocking shall be carried out simultaneously at both ends

Compatibility

- Male contact: 801/ 804
- Nickel over brass *

	EF	CF
HE 801	219	229
HE 804	220	202

SC

- Cables, free receptacle
- Flex, locking device-extractor

Compatibility

- Female contact: 804
- Nickel over brass *

	EF	CF
HE 804	207	202

DC

- Cables, free receptacle
- Flex, locking device-extractor

Compatibility

- Male contact: 804
- Nickel over brass *

	EF	CF
HE 804	207	202

SC

- Chassis, floating receptacle
- Locking device-extractor

Compatibility

- Female contact: 801
- Nickel over brass *

	EF	CF
HE 801	213	229

DC

- Chassis, floating receptacle
- Locking device-extractor

Compatibility

- Male contact: 801
- Nickel over brass *

	EF	CF
HE 801	213	229

S

- Chassis, floating receptacle
- Locking device-extractor - tapped female fitting
- Locking and unlocking shall be carried out simultaneously at both ends

Compatibility

- Female contact: 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 807	213	229

	S 219 220	D 219 220	SC 207	DC 207	SC 213	DC 213	S 213
A	Ø 3		Ø 3		Ø 3		Ø 3
D	4.7 MAX [.185]		6 MAX		6 MAX		6 MAX
E			2 MAX [.083]		2 MAX [.083]		2 MAX

	K 212/201	A 212/201	P 203	B 203	P 226	L 228	KE 208	AE 208	KE 209	AE 209
A			Ø 6	Ø 6	Ø 6	Hex 5 [.197]	Ø 3.5 [.138]	Ø 3.5 [.138]	Ø 3.5 [.138]	Ø 3.5 [.138]
A'							Ø 3.5 [.138]	Ø 3.5 [.138]	Ø 3.5 [.138]	Ø 3.5 [.138]
B			Ø 4.5 [.177]	Ø 4.5 [.177]	Hex 4.5 [.177]				1 MAX [.039]	
C	Ø 1	Ø 1	Ø 1	Ø 1		Ø 1				
D	6 MAX	2	2	2	9	6 MAX	4.6 [.181]			
E	2 MAX	2	2	2	2 MAX [.083]	2.7 MAX [.106]	6			
F					3		3		3	
G							2 MAX		2 MAX	
H							5			

To order the fitting alone: HE8C + xxx

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 Series

127 / HE8 >>> FEMALE FITTINGS (3)

END FITTINGS FOR RECEPTACLES**



Codable & lockable fittings

KD						
	- Chassis or mother board - Fixed receptacle - Locking ensuring resistance to vibrations Compatibility - Female contact: 801 / 804 / 807 - Male contact: 807 - Nickel over brass*					
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801 / 807</td> <td>221 229</td> </tr> <tr> <td>HE 804</td> <td>221 202</td> </tr> </tbody> </table>	EF	CF	HE 801 / 807	221 229	HE 804
EF	CF					
HE 801 / 807	221 229					
HE 804	221 202					

AD						
	- Chassis or mother board - Fixed receptacle - Locking ensuring resistance to vibrations Compatibility - Male contact: 801 / 804 - Nickel over brass*					
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801 / 804</td> <td>221 229</td> </tr> <tr> <td>HE 804</td> <td>221 202</td> </tr> </tbody> </table>	EF	CF	HE 801 / 804	221 229	HE 804
EF	CF					
HE 801 / 804	221 229					
HE 804	221 202					

KED				
	- Daughter board - Free receptacle - with bracket - Connection board to board aligned with each other - Locking ensuring resistance to vibrations Compatibility - Female contact: 804 - Nickel over brass*			
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 804</td> <td>223 209</td> </tr> </tbody> </table>	EF	CF	HE 804
EF	CF			
HE 804	223 209			

AED				
	- Daughter board - Free receptacle - with bracket - Connection board to board aligned with each other - Locking ensuring resistance to vibrations Compatibility - Male contact: 804 - Nickel over brass*			
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 804</td> <td>223 209</td> </tr> </tbody> </table>	EF	CF	HE 804
EF	CF			
HE 804	223 209			

KED						
	- Daughter board - Free receptacle - with bracket - Connection board to board aligned with each other - Locking ensuring resistance to vibrations Compatibility - Female contact: 801 / 807 - Male contact: 807 - Nickel over brass*					
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>224 209</td> </tr> <tr> <td>HE 807</td> <td>224 208</td> </tr> </tbody> </table>	EF	CF	HE 801	224 209	HE 807
EF	CF					
HE 801	224 209					
HE 807	224 208					

AED				
	- Daughter board - Free receptacle - with bracket - Connection board to board aligned with each other- Locking ensuring resistance to vibrations Compatibility - Male contact: 801 - Nickel over brass*			
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>224 209</td> </tr> </tbody> </table>	EF	CF	HE 801
EF	CF			
HE 801	224 209			

KT						
	- Chassis or mother board - Fixed receptacle - Quarter turn locking on plug side Compatibility - Female contact: 801 / 804 / 807 - Male contact: 807 - Passivated stainless steel only*					
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801 / 807</td> <td>422 429</td> </tr> <tr> <td>HE 804</td> <td>422 402</td> </tr> </tbody> </table>	EF	CF	HE 801 / 807	422 429	HE 804
EF	CF					
HE 801 / 807	422 429					
HE 804	422 402					

AT						
	- Chassis or mother board - Fixed receptacle - Quarter turn locking on plug side Compatibility - Male contact: 801 / 804 - Passivated stainless steel only					
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801</td> <td>422 429</td> </tr> <tr> <td>HE 804</td> <td>422 402</td> </tr> </tbody> </table>	EF	CF	HE 801	422 429	HE 804
EF	CF					
HE 801	422 429					
HE 804	422 402					

KET				
	- Daughter board or board to board mating - Free receptacle - Quarter turn locking on plug side Compatibility - Female contact: 801 / 804 / 807 - Male contact: 807 - Passivated stainless steel only			
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801/804/807</td> <td>425 425</td> </tr> </tbody> </table>	EF	CF	HE 801/804/807
EF	CF			
HE 801/804/807	425 425			

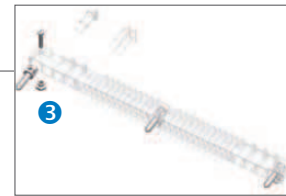
AET				
	- Daughter board or board to board mating - Free receptacle - Quarter turn locking on plug side Compatibility - Male contact: 801 / 804 - Passivated stainless steel only			
	<table border="1"> <thead> <tr> <th>EF</th> <th>CF</th> </tr> </thead> <tbody> <tr> <td>HE 801/804</td> <td>425 425</td> </tr> </tbody> </table>	EF	CF	HE 801/804
EF	CF			
HE 801/804	425 425			

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FEMALE FITTINGS (3)

CENTRAL FITTINGS FOR RECEPTACLES**



229

Compatibility
 - Female contact: 801 / 807
 - Male contact: 801 / 807
 - **EF:** K / A / P / B / S / D / SC / DC / KD / AD
 - Nickel over brass *

HE 801/807	229
-------------------	------------

202

Compatibility
 - Female contact: 804
 - Male contact: 804
 - **EF:** K / A / P / B / L / S / D / SC / DC / KD / AD
 - Nickel over brass *

HE 804	202
---------------	------------

429

Compatibility
 - Female contact: 801 / 807
 - Male contact: 801 / 807
 - **EF:** KT / AT
 - Passivated stainless steel *

HE 801 / 807	429
---------------------	------------

402

Compatibility
 - Female contact: 804
 - Male contact: 804
 - **EF:** KT / AT
 - Passivated stainless steel *

HE 804	402
---------------	------------

208

Compatibility
 - Female contact: 801 / 807
 - Male contact: 801 / 807
 - **EF:** KE / AE / KED / AED
 - Nickel over brass *

HE 801 / 807	208
---------------------	------------

209

Compatibility
 - Female contact: 804
 - Male contact: 804
 - **EF:** KE / AE / KED / AED
 - Nickel over brass *

HE 804	209
---------------	------------

425

Compatibility
 - Female contact: 801 / 804 / 807
 - Male contact: 801 / 804 / 807
 - **EF:** KET / AET
 - Passivated stainless steel *

HE 801 / 804 / 807	EF	CF
	224	208

	202 / 229 / 429 / 402	208	209	425
A	Ø 4 [.157]	Ø 3.5 [.138]		Hex 5 [.197]
B			1 MAX [.039]	
D	7 MAX ⌀	4.6 [.181]		4.1 MAX [.161]
E		♣ ♣ ♣	♣	
F		♣ ♣	♣	
G		2 MAX ⌀		
H		♣		
A'		♣	Hex 4 [.157]	Hex 4 [.157]
C				♣

	KD / AD 221	KED / AED 223	KED / AED 224	KT / AT 422	KET / AET 425	
A	Ø 5 [.197]		Ø 5 [.197]		Hex 5 [.197]	
C	♣			♣		
D	X HE804 = 18 MAX [.709] Y HE804 = 14 MAX [.551] Z HE804 = 14 MAX [.551]	X HE801/807 = 17 MAX [.669] Y HE801/807 = 13 MAX [.518] Z HE801/807 = 13 MAX [.518]	Z = 14 MAX [.551]	Z = 13 MAX ⌀	HE804: 7 MAX ⌀ HE801 / 807: 6 MAX ⌀	4.1 MAX [.161]
D'			4.6 [.181]			
E	♣ MAX ⌀	♣ ♣ ♣	♣			
A'	Hex 5 [.197]		♣		Hex 4 [.157]	
C'		Ø 1.6 [0.63]				

** To order the fitting alone: HE8C + xxx
 T o at é 2 é e e a " 2
 T o v b s 4 é e e e a 2
 x: unlocked - y: screw out - z: locked

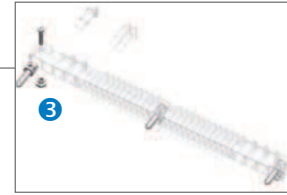
EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 Series

127 / HE8 >>> MALE FITTINGS (3)

END FITTINGS FOR PLUGS**



Non codable & Non lockable fittings

PA

- Daughter board or extension board single or double sided
- Free plug - with plated thru holes
- Compatibility**
- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801/ 804/ 807	102	102

PC

- Daughter board or extension board single or double sided
- Free plug - with plated thru holes
- Compatibility**
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801 /804	102	102

T

- Chassis or mother board
- Board to board, board to chassis, parallel to one another
- Compatibility**
- Female contact: 801/ 804/ 807
- Male contact: 801/ 804 / 807
- Nickel over brass *

	EF	CF
HE 801/807	118	129
HE 804	111	113

	PA / PC	T
A	Hex 4 [.157]	Hex 5 [.197]
C	♠ ♣ ♠	♠ ♣
D	1.3 MAX [.051]	6 MAX ♣

Non codable & Non locking fittings

D

- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side
- Compatibility**
- Female contact: 801/ 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801/804/807	103	102

S

- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side
- Compatibility**
- Male contact: 801/ 804
- Nickel over brass *

	EF	CF
HE 801/ 804	103	102

EF

- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side
- Compatibility**
- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801/ 807	119	129
HE 804	112	113

RF

- Chassis or mother board
- Free plug - with plated thru holes
- Lockable on receptacle side
- Compatibility**
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	119	129
HE 804	112	113

NF

- SMT daughter board aligned with connector centerline
- Lockable on receptacle side
- Compatibility**
- Female contact: 801 / 804
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	116	114
HE 804	108	104

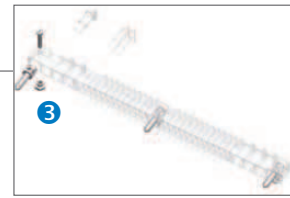
	D / S	EF	RF	NF
A	Hex 4 [.157]	Hex 5 [.197]		
C	♠ ♣ ♠	♠ [.197]		1.6 [.063]
D	1.3 MAX [.051]	6 MAX ♣		HE801 13.9 MAX [.547] ♣ MAX [.480]
F		3 MAX ♣		1.1 [.043]
G				3.5 [.138]

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> MALE FITTINGS (3)

END FITTINGS FOR PLUGS**



Codable & Non lockable fittings

A

- Daughter board single or double sided
- Free plug - with plated thru holes

Compatibility

- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801 / 804 / 807	101	102

J

- Daughter board single or double sided
- Free plug - with plated thru holes

Compatibility

- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801 / 804	101	102

N

- SMT daughter board aligned with connector centreline
- Free plug - with plated thru holes

Compatibility

- Female contact: 801 / 804
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	115	114
HE 804	106	104

V

- SMT daughter board aligned with connector centreline
- Free plug - with plated thru holes

Compatibility

- Female contact: 801 / 804
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	114	114
HE 804	104	104

E

- Chassis or mother board
- Board to board, board to chassis

Compatibility

- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801 / 807	117	129
HE 804	110	113

R

- Chassis or mother board (board to board, board to chassis)

Compatibility

- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	117	129
HE 804	110	113

H

- SMT daughter board
- Offset from connector centreline
- Free plug - with plated thru holes

Compatibility

- Female contact: 804
- Nickel over brass *

	EF	CF
HE 804	107	105

	A	J	N	V	E	R	H
A	Hex 4 [.157]				Hex 5 [.197]		
C	5 [0.63 to 0.94]		1.6 [0.63]		5	5	1.6 [0.63]
D	1.3 _{MAX} [.051]		HE801 13.9 _{MAX} [.547] 12 _{MAX} [.480]		6 _{MAX} 5		13.05 _{MAX} [.514]
F			1.1 [.043]		2 _{MAX} 5		1.1 [.043]
G			3.5 [.138]				2 5

*To order the same fitting in passivated stainless steel, change the "1" in the HE8 reference to a "3" (1xx => 3xx)

** To order the fitting alone: HE8C + xxx

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 Series

127 / HE8 >>> MALE FITTINGS (3)

END FITTINGS FOR PLUGS**



Codable & lockable fittings

AS

- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

Compatibility

- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801 / 804 / 807	124	102

JS

- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

Compatibility

- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801 / 804	124	102

ES

- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side

Compatibility

- Female contact: 801 / 804 / 807
- Male contact: 807
- Nickel over brass *

	EF	CF
HE 801	125	129
HE 804	125	113

RS

- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side

Compatibility

- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	125	129
HE 804	125	113

ET

- Cable to board or cable to chassis
- Quarter turn locking
- Dimensions given in reset position

Compatibility

- Female contact: 801 / 804 / 807
- Male contact: 807
- Passivated stainless steel only

	EF	CF
HE 801/807	327	329
HE 804	327	313

RT

- Cable to board or cable to chassis
- Quarter turn locking
- Dimensions given in reset position

Compatibility

- Male contact: 801 / 804
- Passivated stainless steel only

	EF	CF
HE 801	327	329
HE 804	327	313

NS

- SMT daughter board aligned with fitting centerline
- Lockable on receptacle side

Compatibility

- Female contact: 801 / 804
- Male contact: 801 / 804
- Nickel over brass *

	EF	CF
HE 801	114	114
HE 804	126	104

	AS	JS	ES	RS	ET	RT	NS
A	Hex 4 [.157]		Hex 5 [.197]				
C	♂ ♀ [.063 to .094]		♂ ♀				1.6 [.063]
D	1.3 _{MAX} [.051]		7 _{MAX} [.276]		16 _{MAX} [.630]		HE801 13.9 _{MAX} [.547] ♂ ♀ _{MAX} [.480]
F			3 _{MAX} [B]				1.1 [.043]
G							3.5 [.138]

EF: End Fitting / CF: Central Fitting

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> MALE FITTINGS (3)

CENTRAL FITTINGS FOR PLUGS**



127 Series

114

Compatibility
 - Female contact: 801
 - Male contact: 801
 - N / V / NF / NS
 - Nickel over brass *

HE 801 **114**

104

Compatibility
 - Female contact: 804
 - Male contact: 804
 - N / V / NF / NS
 - Nickel over brass *

HE 804 **104**

129

Compatibility
 - Female contact: 801 / 807
 - Male contact: 801 / 807
 - E / R / T / EF / RF / ES / RS
 - Nickel over brass *

HE 801/807 **129**

113

Compatibility
 - Female contact: 804
 - Male contact: 804
 - E / R / T / EF / RF / ES / RS
 - Nickel over brass *

HE 804 **113**

329

Compatibility
 - Female contact: 801 / 807
 - Male contact: 801 / 807
 - ER / RT
 - Passivates stainless steel *

HE 801/807 **329**

313

Compatibility
 - Female contact: 804
 - Male contact: 804
 - ER / RT
 - Passivated stainless steel *

HE 804 **313**

102

Compatibility
 - Female contact: 801 / 804 / 807
 - Male contact: 801 / 804 / 807
 - A / J / PA / PC / D / S / AS / JS
 - Nickel over brass *

HE 801 / 804 / 807 **102**

105

Compatibility
 - Female contact: 804
 - H
 - Nickel over brass *

HE 804 **105**

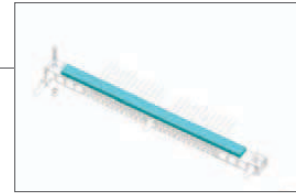
	114	104	129	113	329	313	102	105
A	1.6 [.063]		Ø 4 [.157]			Hex 4 [.157]		1.1 [.043]
D	13.9 MAX [.547]	2 MAX [.480]	7 MAX [Ø]			1.3 MAX [.051]		2 MAX [.480]
F	1.1 [.043]					.6 to .8 [.063 to .094]		1.6 [.063]
G	3.5 [.514]							Ø

** To order the fitting alone: HE8C + xxx
 *To order the same fitting in passivated stainless steel, change the "1" in the HE8 reference to a "3" (1xx => 3xx)
 *To order the same fitting in nickel over brass, change the "3" in the HE8 reference to a "1" (3xx => 1xx)

All dimensions are given for information only and are in mm [inch], except as otherwise specified

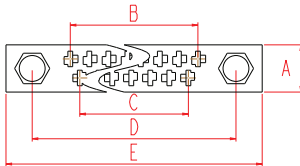
127 / HE8 >>> HE 801 & HE 804

TYPICAL ARRANGEMENTS



n indicates the total number of signal contacts

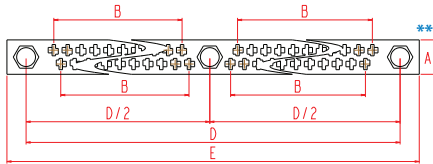
Signal contacts on 2 rows without central fitting*



n = 80

A	6.3 ^{+0.1}
B	2
C	2
D	B + 10.16
E	≈ D + 7

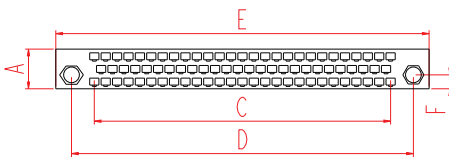
Signal contacts on 2 rows with central fittings*



n = 80

A	6.3 ^{+0.1}
B	(n-4) X 0.635
D	2 X B
E	≈ D + 7

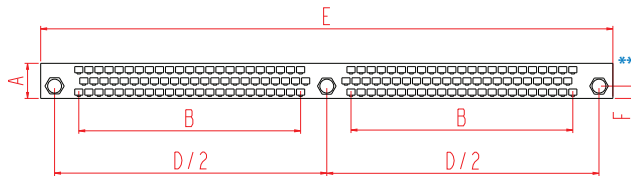
Signal contacts on 3 rows without central fittings*



n = 80

A	8.94 (female connector) or 8.55 (female connector)
C	66.04
D	76.3 _{MAX}
E	83.4 _{MAX}
F	3.1

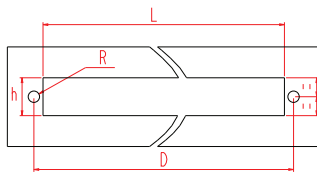
Signal contacts on 3 rows with central fittings*



n = 144

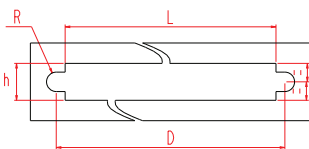
A	8.4 _{MAX}
B	2
D	137.16
E	144.36 _{MAX}
F	3.1

Panel drilling*



- Receptacle with A-AD-AT fittings or plug with R-RF-RS-T fittings with male contact W3-ZC-X
- Receptacle with K-KD-KT-L fittings or plug with E-EF-ES-T fittings with female contact W3-Z

D	See above
L	≈ D - 4.6
h	9.5 _{MIN}
R	



- Receptacle with B fitting and male contact W3-ZC-X
- Receptacle with P fitting and female contact W3-Z

D	See above
L	≈ D - 4.6
h	9.5 _{MIN}
R	

* in mm: 1mm = 0.03937 inch

** The standard version presents a stiffening bar with W3-ZC-Z contacts and no stiffening bar with YC-V-Y-YD-X contacts. Put an A in the part number code to have no stiffening bar on the connector with W3-ZC-Z contacts or a B to have a stiffening bar on the connector with YC-U-Y-YD-X contacts.

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> HE 801 & HE 804

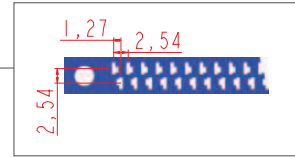
LAYOUTS

The boards are shown from the connector side.

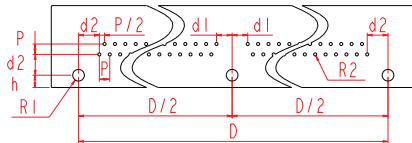
The drawings show various footprints for connectors with a central attachment on board.

For a table of dimensions, see the table below.

All contacts outputs are equidistant. For daughterboard, the first contact's marking is indicated for reference only.

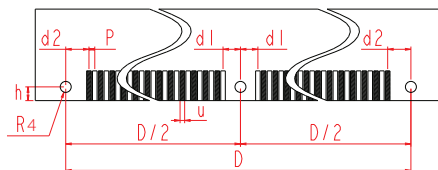


Daughterboard drilling for YC contact*



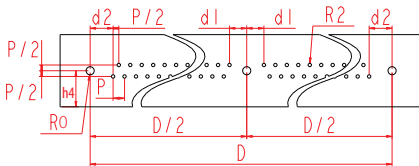
- Receptacle with KET-AET fittings or plug with A-D-AS-PA-J-S-JS-PC fittings
- YC (male and female contact)

Daughterboard drilling for U contact*



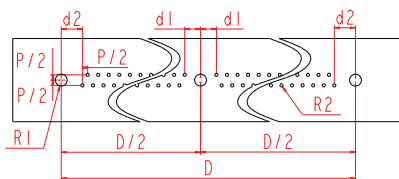
- Plug with H-N-NF-NS-V fittings
- U (male and female contact)

Daughterboard drilling for YC contact*



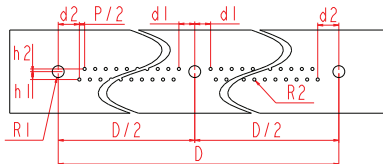
- Receptacle with KE-KED-AE-AED fittings
- YC (male and female contact)

Motherboard drilling for Y contact (male and female)*



- Receptacle with A-AD-AT fittings or plug with R-RF-RS-T fittings
- Y (male and female contact)

Motherboard drilling for YD contacts (socket only)*



- Receptacle with K-L-KD-KT fittings or plug with E-EF-ES-T fittings
- YD (female contact only)

D	d ₁	d ₂	p	p ₂	h	h ₁	h ₂	h ₄	R ₀	R ₁	R ₂	R ₄	u
See above	3.81 [.150]	5.08 D	3 [.100]	2 [.050]	3 _{MAX} [.118]	1.9 [.075]	0.64 B	8 _{MAX} [.315]	Ø 1.8 _{MIN} [.071]	Ø 2.85 _{MIN} P ⊕ ⊖ Ø 0.2	Ø 0.75 _{MIN} [.030] ⊕ ⊖ Ø 0.2	Ø _{MIN} [.094]	Ø _{MIN} [.063]

* in mm: 1mm = 0.03937 inch

All dimensions are given for information only and are in mm [inch], except as otherwise specified



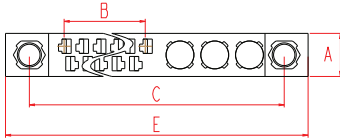
127 / HE8 >>> HE 807

TYPICAL ARRANGEMENTS

n indicates the total number of signal contacts
h indicates the total number of hybrid contacts



n signal contacts + 3 cavities without central fittings*



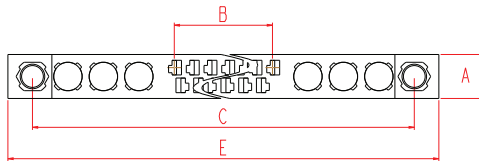
Note:

- Asymmetrical arrangements with female contacts always have plug marking
- Asymmetrical arrangements with male contacts always have receptacle marking

- h = 3

B	
D	
E	D + 7

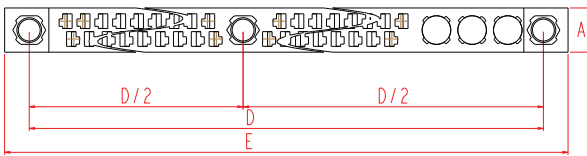
n signal contacts + 6 cavities without central fittings*



- h = 6

B	
D	
E	D + 7

n signal contacts + 3 cavities with central fittings*



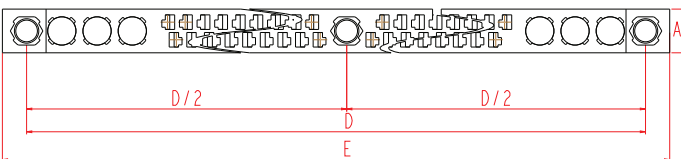
Note:

- Asymmetrical arrangements with female contacts always have plug marking
- Asymmetrical arrangements with male contacts always have receptacle marking

- h = 3

A	6.3 ^{+0.1}
D	
E	D + 7

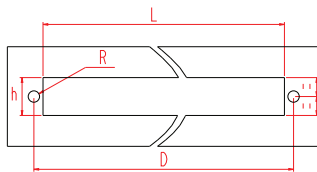
n signal contacts + 6 cavities with central fittings*



- h = 6

A	6.3 ^{+0.1}
D	
E	D + 7

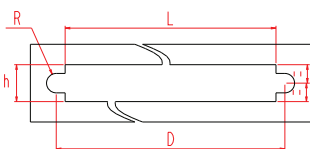
Panel drilling*



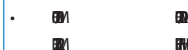
- Receptacle with K-KD-KT fittings or plug with E-EF-ES fittings and male contacts W3-ZC-X and special contacts
- Receptacle with K-KD-KT fittings or plug with E-EF-ES fittings and female contacts W3-ZC-X1 and special contacts



D	See above
L	D - 4.6
h	9.5 MIN
R	



- Receptacle with P fitting with male contacts W3-ZC-X and special contacts
- Receptacle with P fitting with female contact W3-ZC-X1 and special contacts



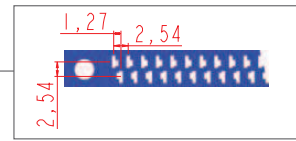
D	See above
L	D - 4.6
h	9.5 MIN
R	

* in mm: 1mm = 0.03937 inch

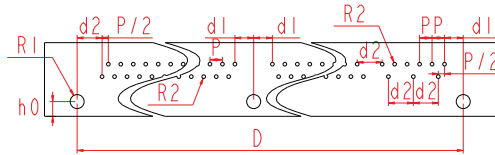
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> HE 807

LAYOUTS COAXIAL CONTACTS

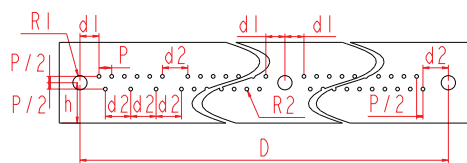


Daughterboard drilling YC + F032/M032 contacts*



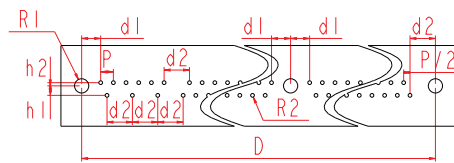
- Receptacle with KET fittings or plug A-D-AS-PA
- Y&

Daughterboard drilling YC + F032/M032 contacts*



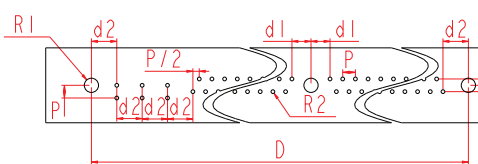
- Receptacle KE
- Y&

Daughterboard drilling YC + F032/M032 contacts*



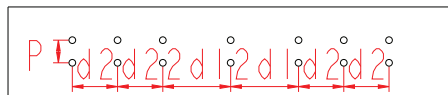
- Receptacle IE
- Y&

Motherboard drilling Y + F041/M041 contacts*

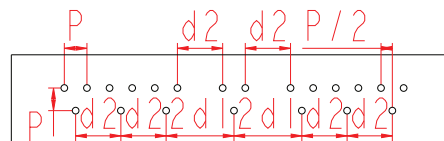


- Receptacle with K-KD-KT fittings and plug E-EF-ES-T fittings.
- Y & coaxial F041 / M041 contacts (male & female contacts)

Contact F041/M041



Contact F032/M032



D	d ₁	d ₂	p	p ₂	h ₀	h ₁	h ₂	R ₁	R ₂	h
See above	3.81 [.150]	5.08 D	2 [.100]	2 [.050]	3 ^{MAX} [.118]	1.9 [.075]		∅ 2.85 _{MIN} ∅ 0.2 P	∅ 0.75 _{MIN} ∅ 0.2 [.030]	9.35 [.368]

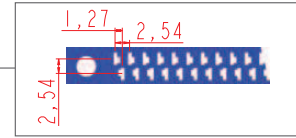
* in mm: 1mm = 0.03937 inch

All dimensions are given for information only and are in mm [inch], except as otherwise specified

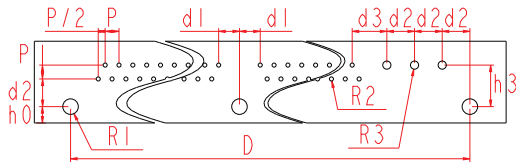


127 / HE8 >>> HE 807

LAYOUTS. POWER CONTACTS.

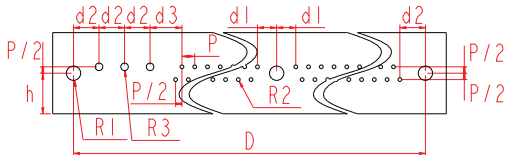


Daughterboard drilling YC + FH3/MH3 & F132/M132



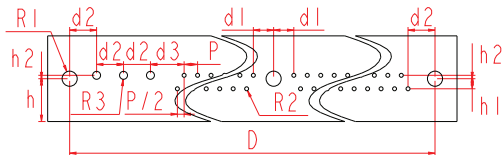
- Receptacle with KET fitting & plug with A-D-AS-PA fittings
- Y w o a b c d e f g h i j k l m n o p q r s t u v w x y z

Daughterboard drilling YC + FH3/MH3 & F132/M132



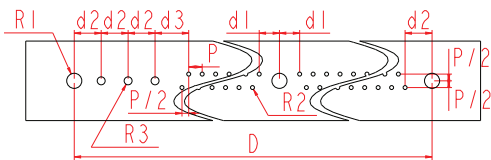
- Receptacle with KE fitting
- Y w o a b c d e f g h i j k l m n o p q r s t u v w x y z

Daughterboard drilling YC + FH3/MH3 & F132/M132



- Receptacle with IE fitting
- Y w o a b c d e f g h i j k l m n o p q r s t u v w x y z

Daughterboard drilling Y + FH2/MH2 & F141/M141




- Receptacle with KE fitting & plug with w
- M141 contacts (male & female)
- P -fi w
- M141 contacts (male & female)


D	d ₁	d ₂	d ₃	p	p ₂	h ₀	h ₁	h ₂	h ₃	R ₁	R ₂	R ₃	h
See above	3.81 [.150]	5.08 D	6.35 D	z [.100]	z [.050]	3 _{MAX} [.118]	1.9 [.075]	0.64 D	z [.300]	∅ 2.85 _{MIN} ∅ ∅ 0.2	∅ 0.75 _{MIN} ∅ ∅ 0.2	∅ 1.5 _{MIN} ∅ ∅ 0.2	9.35 [.368]


All dimensions are given for information only and are in mm [inch], except as otherwise specified


127 / HE8 >>> TOOLING

REMOVAL TOOLS

1272	
	<ul style="list-style-type: none"> - Pin: ZC / X / YC / YL - Rear release
Part number	1272


24098	
	<ul style="list-style-type: none"> - Pin Y / W3 / U - Front release
Part number	24098

1271	
	<ul style="list-style-type: none"> - Socket: YC / U / Z (HE 801 & HE 804) - Rear release
Part number	1271


24099	
	<ul style="list-style-type: none"> - Socket: YC / U / Z (HE 807) - Rear release
Part number	24099


20973	
	<ul style="list-style-type: none"> - Socket: W3 - Rear release
Part number	20973

20143	
	<ul style="list-style-type: none"> - Socket: Y / YD - Front release
Part number	20143

23550	
	<ul style="list-style-type: none"> - Socket: particular contacts HE 807 - Rear release
Part number	23550

CRIMPING TOOLS

HE 8 20 051	
	<ul style="list-style-type: none"> - Pin: X A W a - No additional turret
Part number	HE 8 20 051

809801	
	<ul style="list-style-type: none"> - Socket: X1 A W a A b r e M b y e e a
Part number	809801

127 Series

All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FITTINGS & CONTACT COMPATIBILITIES

HE801

COMPATIBLE MALE FITTINGS Connector with male contacts										FEMALE FITTING RECEPTACLE	COMPATIBLE MALE FITTINGS Connector with female contacts												
FEMALE CONTACTS											MALE CONTACTS												
RT								X	X	X	AET	X	X									ET	
											KET												
											AT				X	X	X	X					
	X	X	X	X							KT												
JS NS RS									X	X	X	AED	X	X								AS NS ES	
											KED												
											AD				X	X	X	X					
	X	X	X	X							KD												
S NF RF											DC				X	X	X	X				D NF EF	
											SC												
	X	X	X	X							D				X	X	X	X					
	X	X	X	X							S												
J PC N V R T											L											A PA N V E T	
									X	X	X	AE	X	X	X								
												KE											
												B				X	X	X	X				
	X	X	X	X	X							P											
	X	X	X	X	X							A				X	X	X	X				
											K												
A B AE								X	X	X	A											K P KE	
								X	X	X	J	X	X										
											PA												
											PC	X	X										
						X					H												
						X					N			X									
D DC	X	X	X	X	X						V			X									
	X	X	X	X	X						E												
								X	X	X	R				X	X	X	X					
											T				X	X	X	X					
									X	X	X	D											
												S	X	X									
AD AED									X	X	X	NF			X							S SC	
											EF												
	X	X	X	X	X						RF				X	X	X	X					
									X	X	X	AS											
AT AET											JS	X	X								KD KED		
											NS			X									
	X	X	X	X	X						ES												
											RS				X	X	X	X					
											ET										KT KET		
										RT						X	X	X					

COMPATIBLE FEMALE FITTINGS
Connector with male contacts

MALE FITTING PLUG

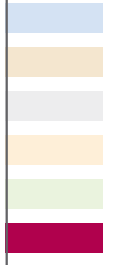
COMPATIBLE FEMALE FITTINGS
Connector with female contacts

127 / HE8 >>> FITTINGS & CONTACT COMPATIBILITIES

HE804

COMPATIBLE MALE FITTINGS Connector with male contacts										FEMALE FITTING RECEPTACLE	COMPATIBLE MALE FITTINGS Connector with female contacts															
FEMALE CONTACTS											YC	YL	U	Y	W3	ZC	X	MALE CONTACTS								
RT								X	X	X	AET	X	X								ET					
											KET															
											AT				X	X	X	X								
		X	X	X	X						KT															
JS NS RS								X	X	X	AED	X	X								AS NS ES					
											KED															
											AD				X	X	X	X								
		X	X		X						KD															
S NF RF											DC				X	X	X	X			D NF EF					
											SC															
											D				X	X	X	X								
		X	X	X	X						S															
J PC N V R T											L										A PA N V E T					
											AE	X	X													
									X	X	X	KE														
												B				X	X	X	X							
A B AE											P										K P KE					
											A				X	X	X	X								
											K															
		X	X	X	X	X																				
D DC								X	X	X	A										S SC					
											J	X	X													
											PA															
		X	X	X	X	X					PC	X	X													
AD AED											H										K D KED					
											N			X												
											V			X												
		X	X	X	X	X					E															
AT AET											R				X	X	X	X			KT KET					
											T				X	X	X	X								
											D															
		X	X	X							S	X	X													
AS NS ES RS								X	X	X	NF			X							K D KED					
											EF															
											RF				X	X	X	X								
											AS															
AS NS ES RS											JS	X	X								K D KED					
											NS			X												
											ES															
		X	X	X	X	X					RS				X	X	X	X								
AS NS ES RS											ET										K D KED					
											RT					X	X	X								
		X	X	X																						

127 Series



127 / HE8 >>> FITTINGS & CONTACT COMPATIBILITIES

HE807

COMPATIBLE MALE FITTINGS Connector with male contacts										FEMALE FITTING RECEPTACLE	COMPATIBLE MALE FITTINGS Connector with female contacts																	
ET										AET																		
										KETX	X	X									ET							
										AT																		
	X X X X									KT					X	X	X	X										
AS ES										AED																		
										KED	X	X									AS ES							
X X X X									AD																			
D EF										KD					X	X	X	X	D EF									
	X X X X									DC																		
A PA E T										SC																		
										D																		
X X X X X									S					X	X	X	X	A PA E T										
									L																			
									AE																			
									KE	X	X	X								A PA E T								
X X X X X									B																			
X X X X X									P					X	X	X	X	A PA E T										
X X X X X									A																			
FEMALE CONTACTS										K					X	X	X	X	MALE CONTACTS									
										YC	YL	U	Y	W3	ZC	X												
K P KE										A	X	X									K P KE							
										J																		
									PA	X	X									K P KE								
X X X X X									PC																			
X X X X X									H																			
									N																			
									V																			
									E					X	X	X	X	K P KE										
									R																			
									T					X	X	X	X	S										
X X X X X									D	X	X																	
S										S																		
	X X X X X									NF																		
									EF					X	X	X	X	S										
									RF																			
KD KED										AS	X	X									KD KED							
										JS																		
X X X X X									NS																			
									ES					X	X	X	X	KD KED										
									RS																			
KT KET	X X X									ET					X	X	X	KT KET										
										RT																		
COMPATIBLE FEMALE FITTINGS Connector with male contacts										MALE FITTING PLUG	COMPATIBLE FEMALE FITTINGS Connector with female contacts																	

NOTES

Area with horizontal dotted lines for notes.

127 Series



All dimensions are given for information only and are in mm [inch], except as otherwise specified