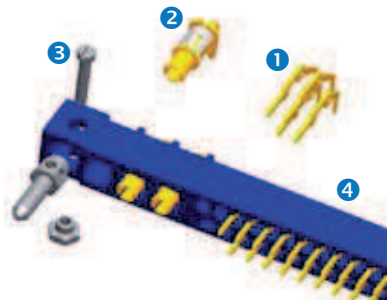
127 / HE8

Proven, reliable and robust connector

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 uses a 2.54 [.100] staggered grid pitch with 2.54 [.100] between rows, Available in 2 or 3 rows.
- 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 signal 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 termini.

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

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

NFC UTE 93424
HE801, HE804 & HE807

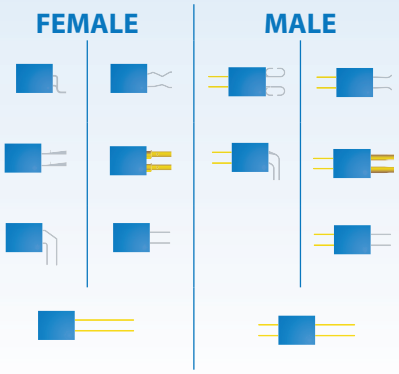
BS9525
N0001, F0006, F0007

MIL-DTL-55302
140 to 155

QUICK SELECTION GUIDE

Signal contacts ❶

FEMALE **MALE**



PAGE 114 | PAGE 115

Special contacts ❷

POWER 10A

POWER 20A

COAXIAL

PAGE 116

Keying & Guiding ❸

NON KEYING

KEYING

LOCKING

NON LOCKING

PAGE 118

Connector type

HE801
Round male contact
Standard molding size

HE804
Rectangular male contact
Molding smaller in size

HE807
Hybrid cavities

PAGES 112 & 113

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

127 / HE8 Series

The well proven technology

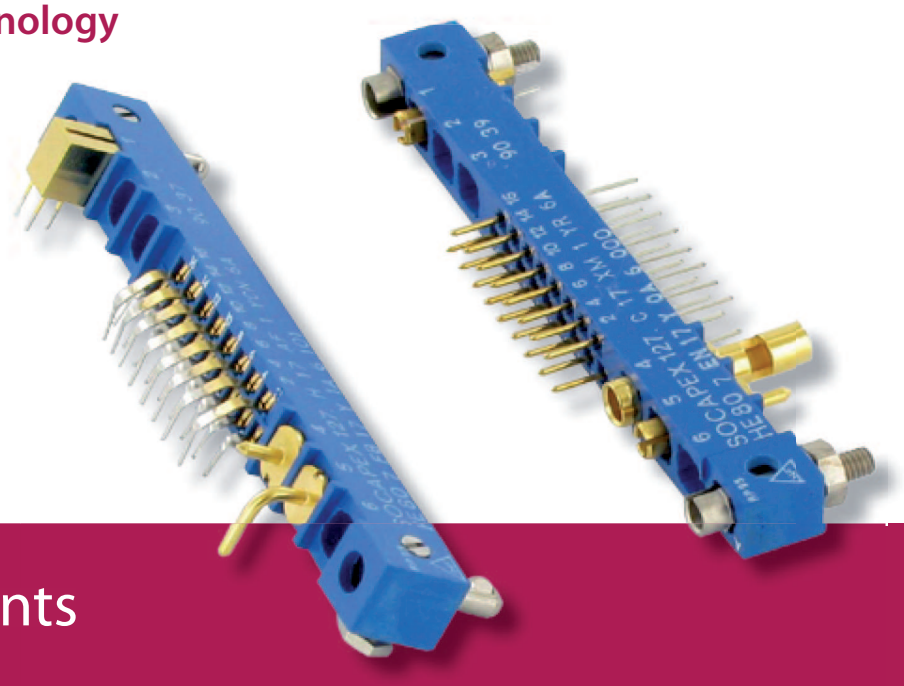


Table of contents

127/HE8 product range **110**

Signal contacts 114
Special contacts 116

Female fittings for receptacles 118
Male fittings for plugs 122

Typical arrangements and layouts, signal connectors (HE801&HE804) 126
Typical arrangements and layouts, hybrid connectors (HE807) 128

Fittings & contacts compatibility 131

Tooling 134

The 127 / HE8 series serves various **markets**, including:

Military Avionics & Airframe

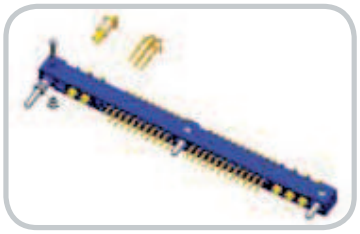
Commercial Avionics & Airframe

C4ISR

Ground vehicles

Industrial

127 / HE8 >>> GENERAL SPECIFICATIONS



MEDIUM DENSITY

- 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

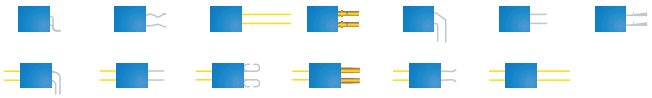
Main characteristics

- 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

Terminations



Recommended configurations

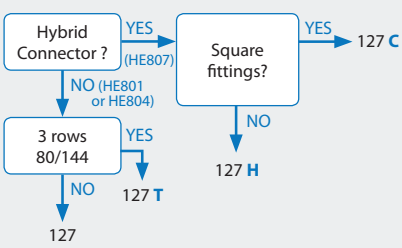
Standard

NFC UTE 93424
HE801, HE804 & HE807

BS9525
N0001, F0006, F0007

MIL-DTL-55302
140 to 155

How to order



Nothing / T / H / C

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 118 to 125)*

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
Blank		No signal contacts (HE807)

Signal contacts *(see pages 114 to 115)*

Contacts
F: Socket / M: Pin

Cavities marking*
Blank: normal
B: reversed

127 - --- --- - - - - --- - --- -

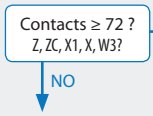
Number of signal contacts

127 H or 127 C	0 5 48 56 60	17 29 41 53
127	33 65 96	72 84
127 T 3 rows	80 144	

Fitting material
Blank: nickel over brass
1: passivated stainless steel

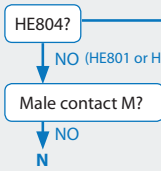
Number of cavities for special contacts *(see page 128)*

Stiffening bar



Plating
1: Tin lead on YC/Y/ZC/U/YL/YD & Gold on W3/X/X1
4: Lead free (RoHS)
6: Tin lead on W3

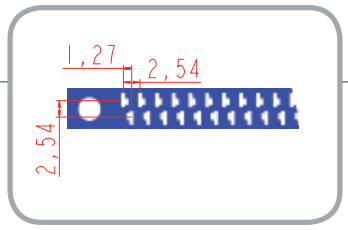
Version



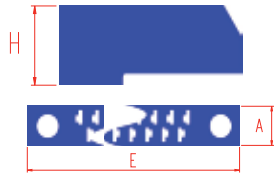
* Asymmetrical arrangements with female contacts always have plug marking. Asymmetrical arrangements with male contacts always have receptacle marking.
** Not available for HE801 and HE807 connectors.

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

127 / HE8 >>> TECHNICAL SPECIFICATIONS



Dimensional characteristics



H = 7.9 [.311] for HE801 & HE807 connectors
H = 6.9 [.272] for HE804 connectors
A = 6.3 [.248] for 2-row connectors
A = 8.55 to 8.94 [.337 to .352] for 3-row connectors
E = 37.5 to 144.2 [1.476 to 5.677]

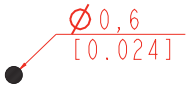
Female contact

Female tuning fork contact
- Compatible with other technologies

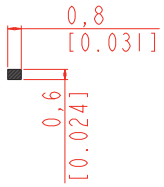
Material
- CuSn9P (blade)

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

Male contact



- **For HE801 & HE807 connectors**
- **Contact section:** 0.28mm² [.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 lead free on YD, Y, Z, YC, YL, T & U
  - Active contact area: gold over nickel

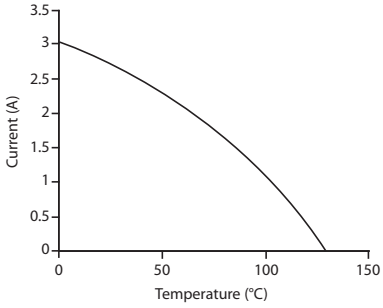
Materials

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

MECHANICAL CHARACTERISTICS	HE801	HE804	HE807
Backoff[1] (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	250
Vibrations (20 to 2000 Hz) micro discontinuity 1µs	10 g	10 g	10 g
Shocks micro discontinuity 1µs	100 g	100 g	100 g
Recommanded tightening torques			
- nuts for Ø 2.5mm screws, brass m.N	0.25	0.25	0.25
- nuts for Ø 1.6mm screws, brass m.N	0.15	0.15	0.15
ENVIRONMENTAL CHARACTERISTICS			
Thermal shocks (°C)	-55 / +125	-55 / +125	-55 / +125
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)	12 MAX	12 MAX	12 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)	250	250	250

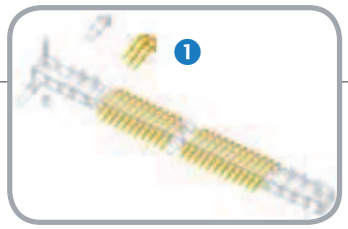
[1]: When both connectors are fully mated, the backoff is the maximum distance the connectors can be unmated while functioning properly

Derating Curve



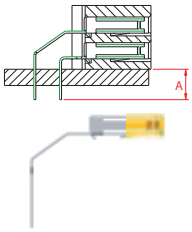
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> SIGNAL CONTACTS (1)



FEMALE CONTACTS

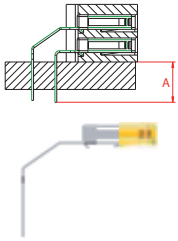
Right angle PC tail



- Thru hole soldering
- Single or double sided daughter board
- Termination section: 0.5 x 0.2 [.020 x .008]
- PCB thickness: 2.5 $_{MAX}$ [.098]

← Termination style **YC**

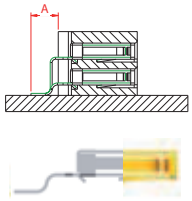
Long right angle PC tail



- Thru hole soldering
- Single or double sided daughter board
- Termination section: 0.5 x 0.2 [.020 x .008]
- PCB thickness: 3.5 $_{MAX}$ [.138]

← Termination style **YL**

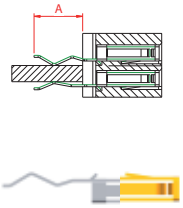
SMT single side



- SMT soldering
- Single side daughter board
- Surface mount area: 1.6 x 0.5 [.063 x .020]

← Termination style **T**

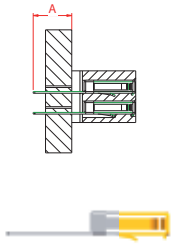
SMT double side



- SMT soldering
- Double side daughter board
- Surface mount area: 0.8 x 0.2 [.032 x .008]
- PCB thickness: 1.6 ± 0.3 [.063±.012]

← Termination style **U**

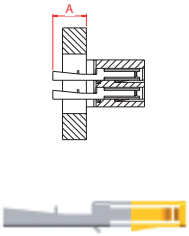
Straight PC tail



- Thru hole soldering
- Mother board
- Termination section: 0.5 x 0.2 [.020 x .008]
- PCB thickness: 3.2 [.126]

→ Termination style **YD/Y**

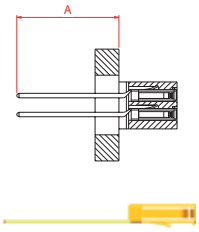
Solder cup



- Hard-soldering on wire
- Ø: 1 mm $_{MAX}$ [.039] on core section 0.78 mm² [.0012 inch²]
- Termination section: 1.5 x 1.2 [.059 x .047]
- PCB thickness: 3.2 [.126]

← Termination style **Z**

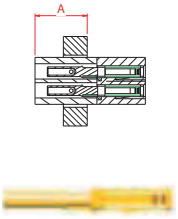
Wire-wrap



- Wire wrap connections
- AWG gauge 28 to 30
- Termination section: 0.6 x 0.6 [.024 x .024]
- PCB thickness: 3.2 [.126]

→ Termination style **W3**

Crimp barrel



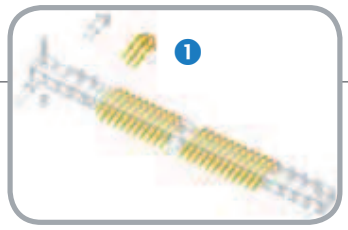
- Crimping on wire
- AWG gauge 22 to 26
- Terminations protected by a casing cemented to the moulding
- PCB thickness: 3.2 [.126]

← Termination style **X1**

	YC	YL	T	U	YD	Y	Z	W3	X1
A $_{MAX}$ for HE801/HE807 **A $_{MAX}$ for HE804**	3 [.118]	4 [.157]	2.8 [.110] 3.8 [.150]	5.5 [.217] 6.5 [.256]	4.7 [.185]	4.9 [.193]	4.5 [.177] 5.5 [.217]	14.1 [.555] 15 [.591]	7 [.276] 8 [.315]
Active contact area plating µm [µin]	2 [.080] Ni + **1 [.040] Au**						2 [.08] Ni + **1 [.040] Au**		
Termination plating µm [µin]	2 [.080] Ni + 3 to 6 [.120 to .240] SnPb or bright pure Sn for RoHS version						2 [.08] Ni + **0.2 [.008] Au**		

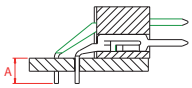
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> SIGNAL CONTACTS (1)



MALE CONTACTS

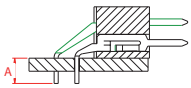
Right angle PC tail



- Thru hole soldering
- Single or double sided daughter board
- Termination section: 0.35 x 0.35[.014 x .014]
- PCB thickness: 2.6 [.102]

← Termination style **YC**

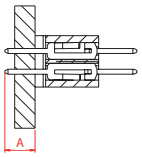
Long right angle PC tail



- 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**

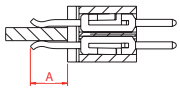
Straight PC tail



- Thru hole soldering
- Mother board
- Termination section: 0.35 x 035 [.014 x .014]
- PCB thickness: 3.2 [.126]

→ Termination style **Y**

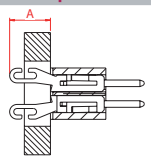
SMT double side



- SMT soldering
- Double sided daughter board
- Surface mount area: 0.64 x 0.6 [.025 x .024]
- PCB thickness: 1.6 ± 0.3 [.063 ± .012]

← Termination style **U**

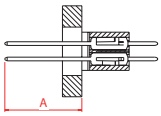
Solder cup



- Hard-soldering on wire
- Ø: 1 $_{MAX}$ [.039] on core section 0.78 mm^2 [.0012inch^2]
- PCB thickness: 3.2 [.126]

← Termination style **ZC**

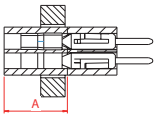
Wire-wrap



- Wire wrap connections
- AWG gauge 28 to 30
- Termination section: 0.6 x 0.6 [.024 x .024]
- PCB thickness: 3.2 [.126]

→ Termination style **W3**

Crimp barrel



- Crimping on wire
- AWG gauge 22 to 26
- Terminations protected by a casing cemented to the moulding
- PCB thickness: 3.2 [.126]
- Not available for HE801 and HE807 connectors

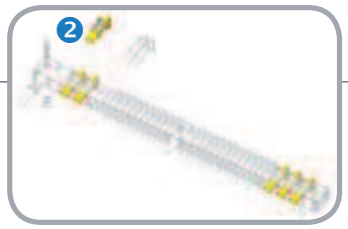
← Termination style **X**

The mention → or ← means the contact removal direction.

	YC	YL	Y	U	ZC	W3	X
A $_{MAX}$ for HE801/HE807 **A $_{MAX}$ for HE804**	3.1 [.122]	4.2 [.165]	5.05 [.199] 5 [.197]	4.2 [.165] 5.2 [.205]	4.3 [.169] 5.3 [.209]	15.05 [.593] 13.2 [.520]	7 [.276] 8 [.315]
Active contact area plating µm [µin]	2 [.080] Ni + **1 [.040] Au**					2 [.080] Ni + **1 [.040] Au**	
Termination plating µm [µin]	2 [.080] Ni + 3 to 6 [.120 to .240] SnPb or bright pure Sn for RoHS version					2 [.080] Ni + **0.2 [.008] Au**	

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

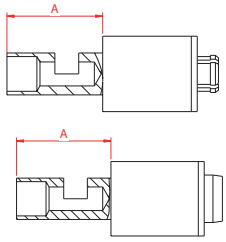
127 / HE8 >>> SPECIAL CONTACTS (2)



POWER CONTACTS**

Current rating 10A

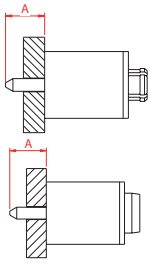
Solder cup



- Hard soldering on wire
- Wire diameter up to 2 [.079]
- Termination section: Ø 3.6 [.142]
- Current rating 10A

Pin	M121*
Socket	F121*

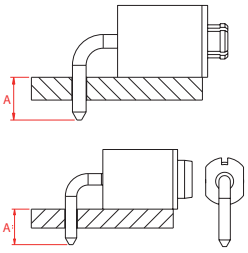
Straight PC tail



- Thru hole soldering
- Mother board
- Termination section: Ø 1.2 [.047]
- PCB thickness: up to 3.2 MAX [.126]
- Current rating 10A

Pin	M141*
Socket	F141*

Right angle PC tail



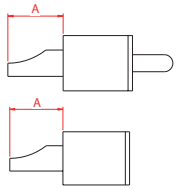
- Thru hole soldering
- Daughter board
- Termination section: Ø 1.2 [.047]
- PCB thickness: 1.6 to 2.4 [.063 to .095]
- Current rating 10A

Pin	M132*
Socket	F132*

Current rating at 5V (A)	10
Maximum current rating at 5V (A)	15
Contact resistance (mΩ)	12 MAX
Operating temperature rise (°C)	20 MAX
Contact retention (N)	50 MIN
Insertion and extraction force per contact (N)	f ≤ F ≤ 15

Current rating 20A

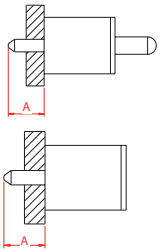
Solder cup



- Hard soldering on wire
- Wire diameter up to 1.83 [.072]
- Current rating 20A

Pin	MH1*
Socket	FH1*

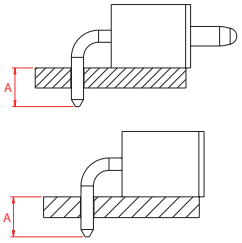
Straight PC tail



- Thru hole soldering
- Mother board
- Termination section: 1.4 [.053]
- PCB thickness: up to 3.2 MAX [.126]
- Current rating 20A

Pin	MH2*
Socket	FH2*

Right angle PC tail



- Thru hole soldering
- Daughter board
- Termination section: 1.2 [.047]
- PCB thickness:1.6 to 2.4 [.063 to .095]
- Current rating 20A

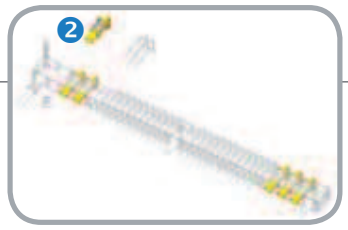
Pin	MH3*
Socket	FH3*

Current rating at 5V (A)	20
Contact resistance (mΩ)	12 MAX
Operating temperature rise (°C)	20 MAX
Contact retention (N)	50 MIN
Insertion and extraction force per contact (N)	f ≤ F ≤ 15

	M121/F121	M141/F141	M132/F132	MH1/FH1	MH2/FH2	MH3/FH3
A MAX	8.2 [.323]	3.8 [.150]	3.8 [.150]	6.3 [.248]	4.2 [.165]	3.8 [.150]
Central contact area plating µm [µin]	2 [.080] Ni + **1.2 [.047] Au**					
Other plating area µm [µin]	2 [.080] Ni + **0.4 [.016] Au**					

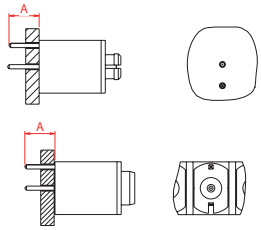
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> SPECIAL CONTACTS (❷)

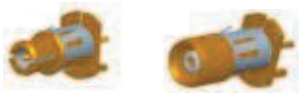


COAXIAL CONTACTS**

Straight PC tail

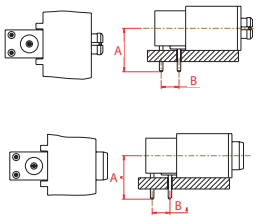


- Thru hole soldering
- Mother board
- Termination section: Ø 0.5 [.020]
- PCB thickness: 3.2 $_{MAX}$ [.126]



Pin	M041*
Socket	F041*

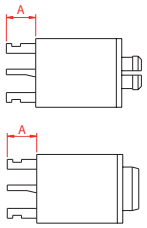
Right angle PC tail



- Thru hole soldering
- Daughter board
- Termination section: Ø 0.5 [.020]
- PCB thickness:1.6 to 2.4 [.063 to .095]

Pin	M032*
Socket	F032*

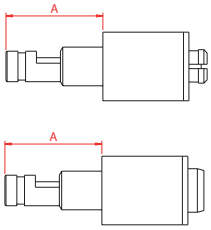
Straight on flexible cable



- Hard-soldering on flexible cable

Pin	M011*
Socket	F011*

Straight on flexible cable



- Hard-soldering on flexible cable
- Wire outer diameter up to 2 [.079]

KX 21 A / RG 178 B/U

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)	12 $_{MAX}$
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]	9.2 [.362]	2.5 [.098]	6.2 [.244]
B $_{MAX}$				2.54 [.100]
Central contact area plating µm [µin]	2 [.080] Ni + **1.2 [.047] Au**			
Other plating area µm [µin]	2 [.080] Ni + **0.4 [.016] Au**			

** 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.*

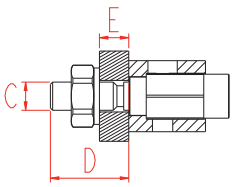
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FEMALE FITTINGS (3)

END FITTINGS FOR RECEPTACLES**

Codable & Non lockable fittings

K

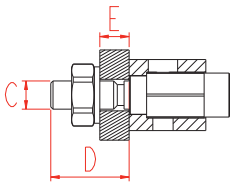


- Chassis or mother board
- Fixed receptacle

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

	EF	CF
HE 801/ 807	212	229
HE 804	201	202

A

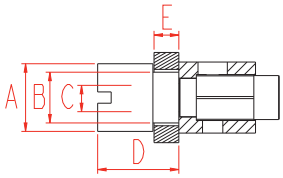


-Chassis or mother board
-Fixed receptacle

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

	EF	CF
HE 801	212	229
HE 804	201	202

P

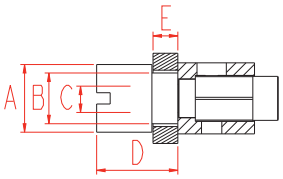


- Chassis
- Floating receptacle

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

	EF	CF
HE 801	203	202
HE 804	203	202

B

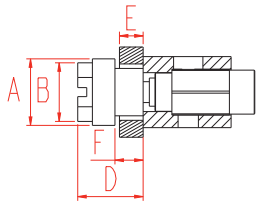


- Chassis
- Floating receptacle

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

	EF	CF
HE 801	203	202
HE 804	203	202

P

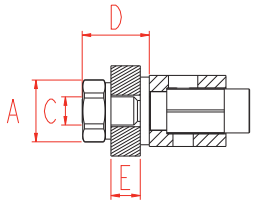


- Chassis
- Floating receptacle

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

	EF	CF
HE 807	226	202

L

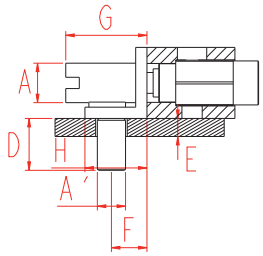


- Chassis or mother board
- With insulating washer

Compatibility
- Female contact: 804
- Nickel over brass *

	EF	CF
HE 804	228	202

KE

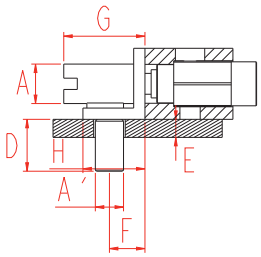


- Daughter board or board to board mating
- Free receptacle - with bracket
- Connection board to board aligned with each other

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

	EF	CF
HE 801	208	209
HE 807	208	208

AE

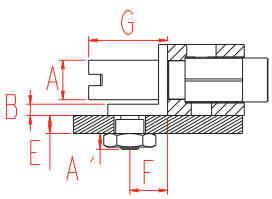


- Daughter board or board to board mating
- Free receptacle - with bracket
- Connection board to board aligned with each other

Compatibility
- Male contact: 801
- Nickel over brass *

	EF	CF
HE 801	208	209

KE

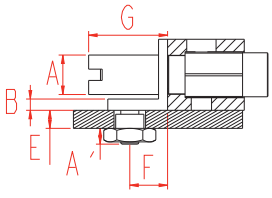


- Daughter board or board to board mating
- Free receptacle - with bracket
- Connection board to board aligned with each other

Compatibility
- Female contact: 804
- Nickel over brass *

	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 *

	EF	CF
HE 804	209	209

EF: End Fitting / **CF:** Central Fitting

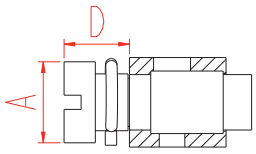
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FEMALE FITTINGS (❸)

END FITTINGS FOR RECEPTACLES**

Non codable & lockable fittings

S

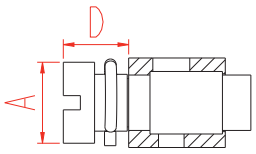


- Cables, free receptacle
- Locking device-extractor - tapped female fitting
- Locking and unlocking shall be carried out simultaneously at both ends

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

	EF	CF
HE 801	219	229
HE 804	220	202

D

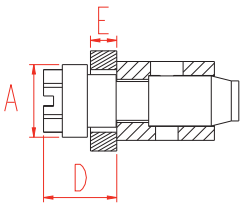


- Cables, free receptacle
- Locking device-extractor - tapped female fitting
- Locking and unlocking shall be carried out simultaneously at both ends

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

	EF	CF
HE 801	219	229
HE 804	220	202

SC

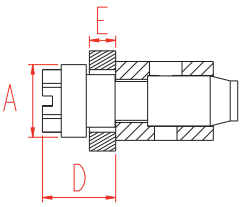


- Cables, free receptacle
- Flex, locking device-extractor

Compatibility
- Female contact: 804
- Nickel over brass *

	EF	CF
HE 804	207	202

DC

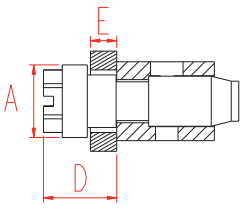


- Cables, free receptacle
- Flex, locking device-extractor

Compatibility
- Male contact: 804
- Nickel over brass *

	EF	CF
HE 804	207	202

SC

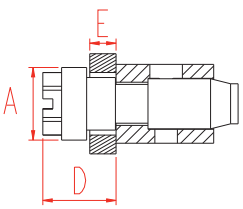


- Chassis, floating receptacle
- Locking device-extractor

Compatibility
- Female contact: 801
- Nickel over brass *

	EF	CF
HE 801	213	229

DC

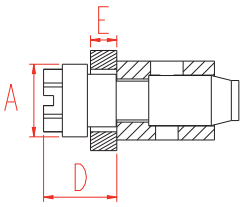


- Chassis, floating receptacle
- Locking device-extractor

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 5.7 [.224]		Ø 5.8 [.228]				
D	4.7 MAX [.185]		6 MAX [.236]				
E			2.1 MAX [.083]				

	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 [.236]		Ø 6 [.236]	Hex 5 [.197]	Ø 3.5 [.138]		Ø 3.5 [.138]	
A'							M 2.5 [.098]		Hex 4 [.157]	
B			Ø 4.5 [.177]		Hex 4.5 [.177]				1 MAX [.039]	
C	M 2.5 [.098]		M 2.5 [.098]			M 2.5 [.098]				
D	6 MAX [.236]		7.2 [.283]		5.9 [.232]	6 MAX [.236]	4.6 [.181]			
E	3.2 MAX [.126]		2.2 [.087]		2.1 MAX [.083]	2.7 MAX [.106]	1.6 to 2.4 [.063 to .094]			
F					2.3 [.091]		2.35 [.093]		3.35 [.132]	
G							7.2 MAX [.283]		7.2 MAX [.283]	
H							5.5 [.217]			

*To order the same fitting in passivated stainless steel, change the "2" in the HE8 reference to a "4" (2xx => 4xx)
** To order the fitting alone: HE8C + xxx

EF: End Fitting / **CF:** Central Fitting

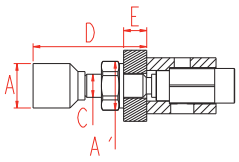
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> FEMALE FITTINGS (3)

END FITTINGS FOR RECEPTACLES**

Codable & lockable fittings

KD



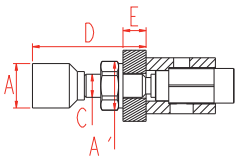
- Chassis or mother board
- Fixed receptacle
- Locking ensuring resistance to vibrations

Compatibility

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

	EF	CF
HE 801 / 807	221	229
HE 804	221	202

AD



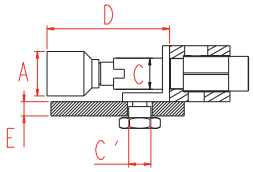
- Chassis or mother board
- Fixed receptacle
- Locking ensuring resistance to vibrations

Compatibility

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

	EF	CF
HE 801 / 804	221	229
HE 804	221	202

KED



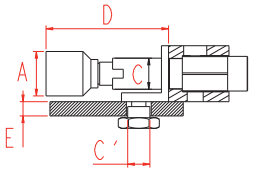
- Daughter board
- Free receptacle - with bracket
- Connection board to board aligned with each other
- Locking ensuring resistance to vibrations

Compatibility

- Female contact: 804
- Nickel over brass*

	EF	CF
HE 804	223	209

AED



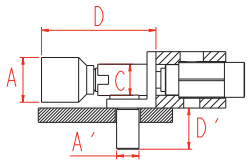
- Daughter board
- Free receptacle - with bracket
- Connection board to board aligned with each other
- Locking ensuring resistance to vibrations

Compatibility

- Male contact: 804
- Nickel over brass*

	EF	CF
HE 804	223	209

KED



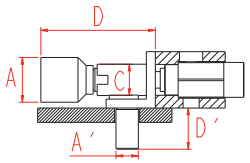
- Daughter board
- Free receptacle - with bracket
- Connection board to board aligned with each other
- Locking ensuring resistance to vibrations

Compatibility

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

	EF	CF
HE 801	224	209
HE 807	224	208

AED



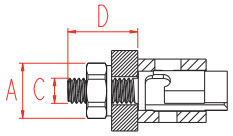
- Daughter board
- Free receptacle - with bracket
- Connection board to board aligned with each other- Locking ensuring resistance to vibrations

Compatibility

- Male contact: 801
- Nickel over brass *

	EF	CF
HE 801	224	209

KT



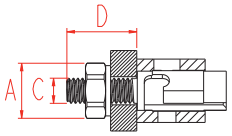
- Chassis or mother board
- Fixed receptacle
- Quarter turn locking on plug side

Compatibility

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

	EF	CF
HE 801/ 807	422	429
HE 804	422	402

AT



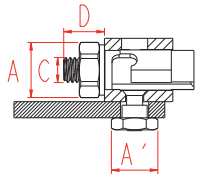
- Chassis or mother board
- Fixed receptacle
- Quarter turn locking on plug side

Compatibility

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

	EF	CF
HE 801	422	429
HE 804	422	402

KET



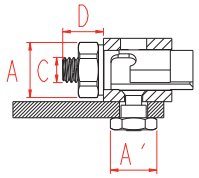
- Daughter board or board to board mating
- Free receptacle
- Quarter turn locking on plug side

Compatibility

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

	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

	EF	CF
HE 801/804	425	425

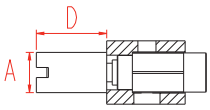
EF: End Fitting / **CF:** Central Fitting

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

127 / HE8 >>> FEMALE FITTINGS (❸)

CENTRAL FITTINGS FOR RECEPTACLES**

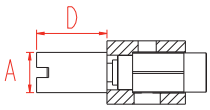
229



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

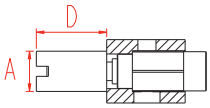
202



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

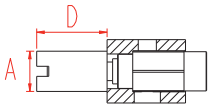
429



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

HE 801 / 807	429

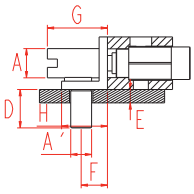
402



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

HE 804	402

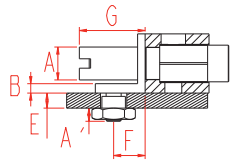
208



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

HE 801 / 807	208

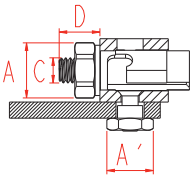
209



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 *

	EF	CF
HE 801/ 804 / 807	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 [.276]	4.6 [.181]		4.1 MAX [.161]
E		1.6 to 2.4 [.063 to .094]		
F		2.35 [.093]	3.35 [.132]	
G		7.2 MAX [.283]		
H		5.5 [.217]		
A'		M 2.5 [.098]	Hex 4 [.157]	Hex 4 [.157]
C				M 2.5 [.098]

	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	M 2.5 [.098]		Ø 3.5 [.138]	Ø 3.5 [.138]	M 2.5 [.098]	
D	X HE804 = 18 MAX [.709] Y HE804 = 26.1 MAX [1.028] Z HE804 = 14 MAX [.551]	X HE801/807 = 17 MAX [.669] Y HE801/807 = 25.1 MAX [.988] Z HE801/807 = 13 MAX [.512]	Z = 14 MAX [.551]	Z = 13 MAX [.512]	HE804: 7 MAX [.276] HE801 / 807: 6 MAX [.236]	4.1 MAX [.161]
D'				4.6 [.181]		
E	3.2 MAX [.126]		1.6 to 2.4 [.063 to .094]			
A'	Hex 5 [.197]			M 2.5 [.098]		Hex 4 [.157]
C'			Ø1.6 [0.63]			

** To order the fitting alone: HE8C + xxx
*To order the same fitting in passivated stainless steel, change the "2" in the HE8 reference to a "4" (2xx => 4xx)
*To order the same fitting in nickel over brass, change the "4" in the HE8 reference to a "2" (4xx => 2xx)
x: unlocked - y: screw out - z: locked

EF: End Fitting / **CF:** Central Fitting

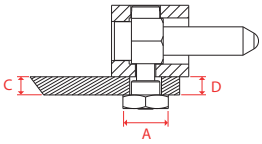
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> MALE FITTINGS (❸)

END FITTINGS FOR PLUGS**

Non codable & Non lockable fittings

PA



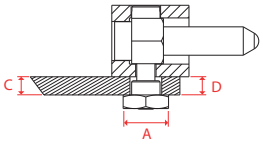
- Daughter board or extension board single or double sided
- Free plug - with plated thru holes

Compatibility
- Female contact: 801 / 804 / 807
- Male contact: 807

- Nickel over brass *

	EF	CF
HE 801/ 804/ 807	102	102

PC



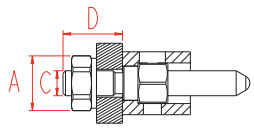
- Daughter board or extension board single or double sided
- Free plug - with plated thru holes

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

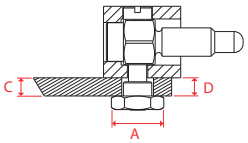
- Nickel over brass *

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

	PA / PC	T
A	Hex 4 [.157]	Hex 5 [.197]
C	1.6 to 2.4 [.063 to .094]	M 2.5 [.098]
D	1.3 $_{MAX}$ [.051]	6 $_{MAX}$ [.236]

Non codable & lockable fittings

D



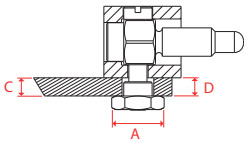
- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

Compatibility
- Female contact: 801/ 804 / 807
- Male contact: 807

- Nickel over brass *

	EF	CF
HE 801/804/807	103	102

S



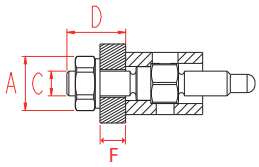
- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

Compatibility
- Male contact: 801/ 804

- Nickel over brass *

	EF	CF
HE 801/ 804	103	102

EF



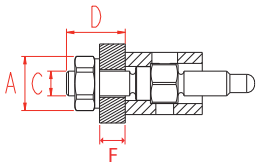
- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side

Compatibility
- Female contact: 801 / 804 / 807
- Male contact: 807

- Nickel over brass *

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

RF



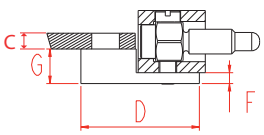
- Chassis or mother board
- Free plug - with plated thru holes
- Lockable on receptacle side

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	1.6 to 2.4 [.063 to .094]	M 2.5 [.197]		1.6 [.063]
D	1.3 $_{MAX}$ [.051]	6 $_{MAX}$ [.236]		HE801 13.9 $_{MAX}$ [.547] HE804 12.2 $_{MAX}$ [.480]
F		3.2 $_{MAX}$ [.126]		1.1 [.043]
G				3.5 [.138]

EF: End Fitting / **CF:** Central Fitting

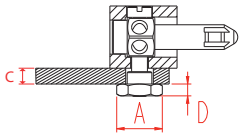
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> MALE FITTINGS (❸)

END FITTINGS FOR PLUGS**

Codable & Non lockable fittings

A



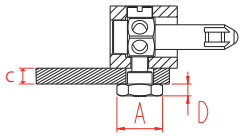
- Daughter board single or double sided
- Free plug - with plated thru holes

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

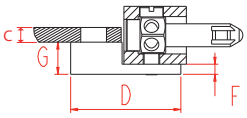
Compatibility

- Male contact: 801 / 804

Nickel over brass *

	EF	CF
HE 801 /804	101	102

N



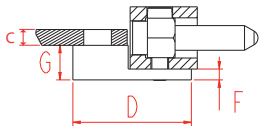
- SMT daughter board aligned with connector centreline
- Free plug - with plated thru holes

Compatibility

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

	EF	CF
HE 801	115	114
HE 804	106	104

V



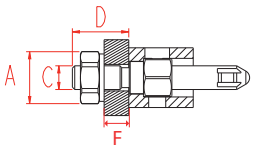
- SMT daughter board aligned with connector centreline
- Free plug - with plated thru holes

Compatibility

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

	EF	CF
HE 801	114	114
HE 804	104	104

E



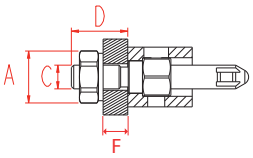
- Chassis or mother board
- Board to board, board to chassis

Compatibility

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

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

R



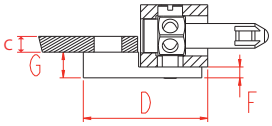
- Chassis or mother board (board to board, board to chassis)

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	1.6 to 2.4 [0.63 to 0.94]		1.6 [0.63]		M 2.5 [.098]		1.6 [0.63]
D	1.3 MAX [.051]		HE801 13.9 MAX [.547] HE804 12.2 MAX [.480]		6 MAX [.236]		13.05 MAX [.514]
F			1.1 [.043]		3.2 MAX [.126]		1.1 [.043]
G			3.5 [.138]				2.7 [.106]

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

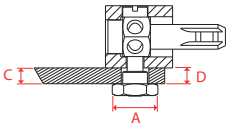
** To order the fitting alone: HE8C + xxx

127 / HE8 >>> MALE FITTINGS (❸)

END FITTINGS FOR PLUGS**

Codable & lockable fittings

AS

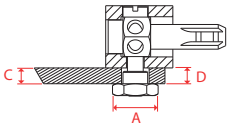


- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

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

	EF	CF
HE 801/ 804/ 807	124	102

JS

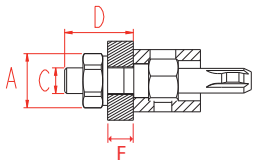


- Daughter board single or double sided
- Free plug - with plated thru holes
- Lockable on receptacle side

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

	EF	CF
HE 801 /804	124	102

ES

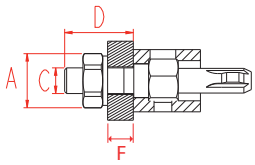


- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side

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

	EF	CF
HE 801	125	129
HE 804	125	113

RS

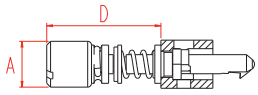


- Chassis or mother board
- Board to board, board to chassis, parallel to one another, board to cable or chassis to cable
- Lockable on receptacle side

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

	EF	CF
HE 801	125	129
HE 804	125	113

ET

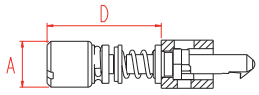


- Cable to board or cable to chassis
- Quarter turn locking
- Dimensions given in reset position

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

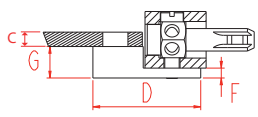


- Cable to board or cable to chassis
- Quarter turn locking
- Dimensions given in reset position

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]		Ø 6 [.236]		
C	1.6 to 2.4 [.063 to .094]		M 2.5 [.098]				1.6 [.063]
D	1.3 MAX [.051]		7 MAX [.276]		16 MAX [.630]		HE801 13.9 MAX [.547] HE804 12.2 MAX [.480]
F			3.2 MAX [.126]				1.1 [.043]
G							3.5 [.138]

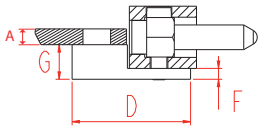
EF: End Fitting / **CF:** Central Fitting

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

127 / HE8 >>> MALE FITTINGS (❸)

CENTRAL FITTINGS FOR PLUGS**

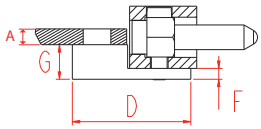
114



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

HE 801 | 114

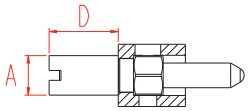
104



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

HE 804 | 104

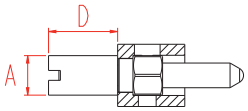
129



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

HE 801/807 | 129

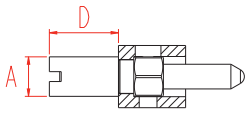
113



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

HE 804 | 113

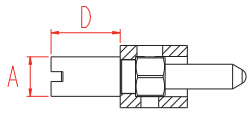
329



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

HE 801/ 807 | 329

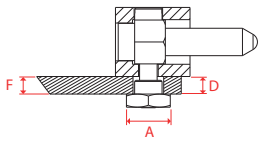
313



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

HE 804 | 313

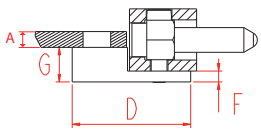
102



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]	12.2 MAX [.480]	7 MAX [.276]				1.3 MAX [.051]	12.2 MAX [.480]
F	1.1 [.043]						1.6 to 2.4 [.063 to .094]	1.6 [.063]
G	3.5 [.514]							2.7 [.106]

** 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)

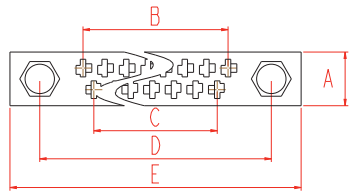
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> HE 801 & HE 804

TYPICAL ARRANGEMENTS

n indicates the total number of signal contacts

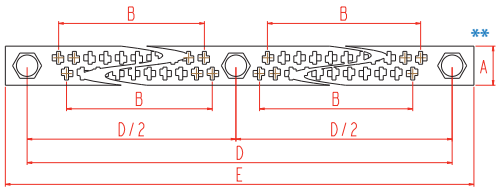
Signal contacts on 2 rows without central fitting*



n = 17, 29, 33, 41, 53 or 65

A	6.3 $^{+0.1}$
B	(n-1) X 1.27
C	B - 2.54
D	B + 10.16
E	≈ D + 7

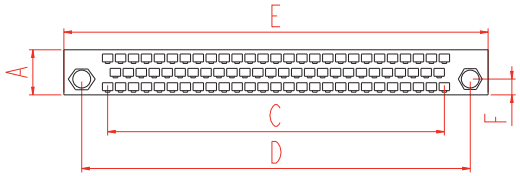
Signal contacts on 2 rows with central fittings *



n = 72, 84, or 96

A	6.3 $^{+0.1}$
B	(n-4) X 0.635
D	2 X (B +10.16)
E	≈ D + 7

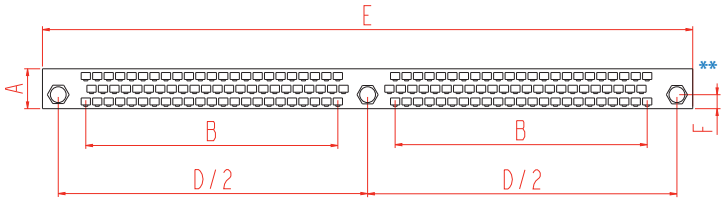
Signal contacts on 3 rows without central fittings *



n = 80

A	8.94
C	66.04
D	76.3 $_{MAX}$
E	83.4 $_{MAX}$
F	3.1

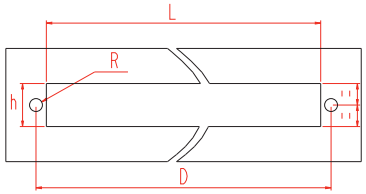
Signal contacts on 3 rows with central fittings *



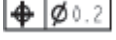
n = 144

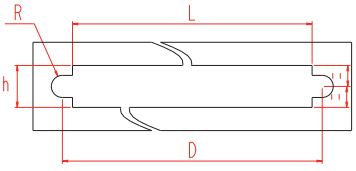
A	8.55 $_{MAX}$
B	58.42
D	137.16
E	144.36 $_{MAX}$
F	3.1

Panel drilling*

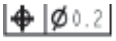


- Receptacle with A-AD-AT fittings or plug with R-RF-RS-T fittings with male contact W3-ZC-X
- Receptacle with K-KD-KT-L fittings or plug with E-EF-ES-T fittings with female contact W3-Z

D	See above
L	≈ D - 4.6
h	9.5 $_{MIN}$
R	Ø 2.85 $_{MIN}$ 



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

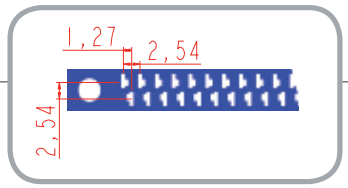
D	See above
L	≈ D - 4.6
h	9.5 $_{MIN}$
R	Ø 5 ± 0.1 

** 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-Zcontacts 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

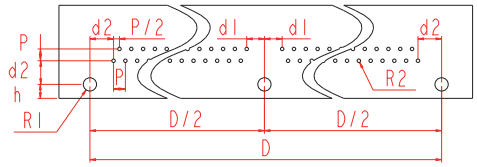
127 / HE8 >>> HE 801 & HE 804



LAYOUTS

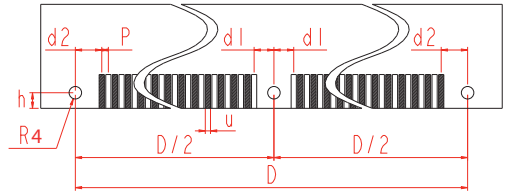
The boards are shown from the connector side.
The drawings show various footprints for connectors with a central attachment on board.
For smaller connectors (17, 29, 33, 41, 53 and 65 contacts), omit the center drilling.
All contacts outputs are equidistant. For daughterboard, the first contact's marking is indicated for reference only.

Daughterboard drilling for YC contact*



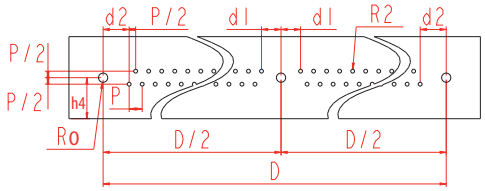
- Receptacle with KET-AET fittings or plug with A-D-AS-PA-J-S-JS-PC fittings
- YC (male and female contact)

Daughterboard drilling for U contact*



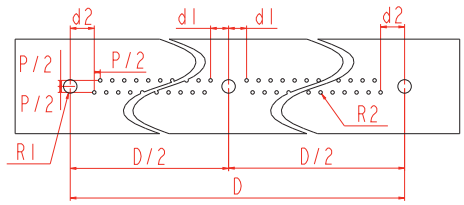
- Plug with H-N-NF-NS-V fittings
- U (male and female contact)

Daughterboard drilling for YC contact*



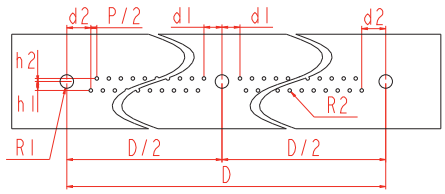
- Receptacle with KE-KED-AE-AED fittings
- YC (male and female contact)

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 [.200]	2.54 [.100]	1.27 [.050]	3 MAX [.118]	1.9 [.075]	0.64 [.025]	8 MAX [.315]	Ø 1.8 MIN [.071]	Ø 2.85 MIN [.112] ⌖ Ø0.2	Ø 0.75 MIN [.030] ⌖ Ø0.2	Ø 2.4 MIN [.094]	1.6 ± 0.1 [.063 ± .004]

** in mm: 1mm = 0.03937 inch*

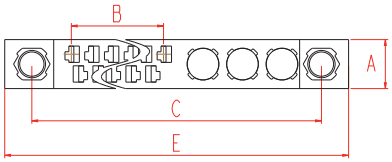
All dimensions are given for information only and are in mm [inch], except as otherwise specified

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*

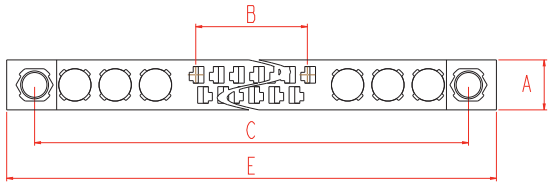


Note:
- *Asymmetrical arrangements with female contacts always have plug marking*
- *Asymmetrical arrangements with male contacts always have receptacle marking*

- n = 5, 17, 29, 41 or 53
- h = 3

B	(n - 1) X 1.27
D	(n + 12) x 1.27 + 8.89
E	D + 7

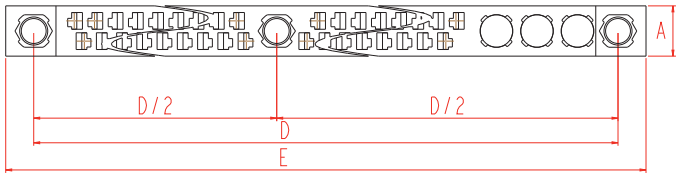
n signal contacts + 6 cavities without central fittings*



- n = 5, 17, 29 or 41
- h = 6

B	(n - 1) X 1.27
D	(n + 24) x 1.27 + 8.89
E	D + 7

n signal contacts + 3 cavities with central fittings*

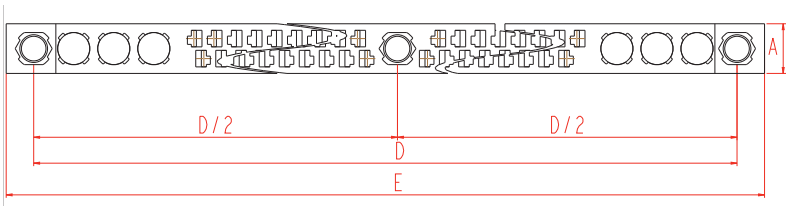


Note:
- *Asymmetrical arrangements with female contacts always have plug marking*
- *Asymmetrical arrangements with male contacts always have receptacle marking*

- n = 60, 72 or 84
- h = 3

A	$6.3^{+0.1}$
D	(n+8) x 1.27 + 20.32
E	D + 7

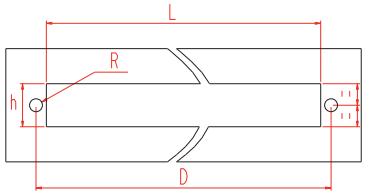
n signal contacts + 6 cavities with central fittings*



- n = 48, 60, 72
- h = 6

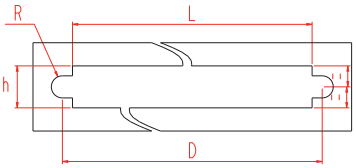
A	$6.3^{+0.1}$
D	(n+20) x 1.27 + 20.32
E	D + 7

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
- F011 / M011 F021 / M021
  F121 / M121 FH1 / MH1

D	See above
L	D - 4.6
h	9.5 MIN
R	Ø 2.85 MIN ⌖ Ø 0.2



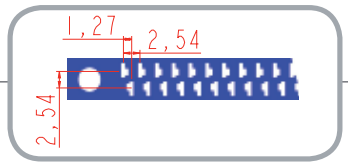
- Receptacle with P fitting with male contacts W3-ZC-X and special contacts
- Receptacle with P fitting with female contact W3-ZC-X1 and special contacts
- F011 / M011 F021 / M021
  F121 / M121 FH1 / MH1

D	See above
L	D - 4.6
h	9.5 MIN
R	Ø 5 ± 0.1 ⌖ Ø 0.2

** in mm: 1mm = 0.03937 inch*

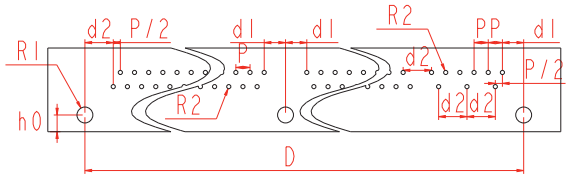
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> HE 807



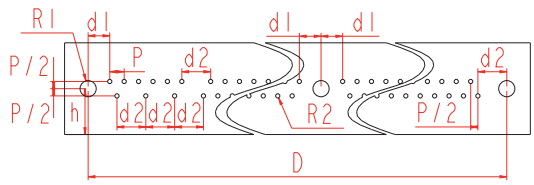
LAYOUTS COAXIAL CONTACTS

Daughterboard drilling YC + F032/M032 contacts*



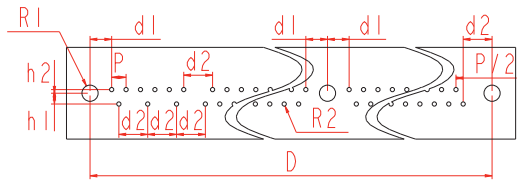
- Receptacle with KET fittings or plug A-D-AS-PA
- YC & coaxial F032/M032 contacts (male & female)

Daughterboard drilling YC + F032/M032 contacts*



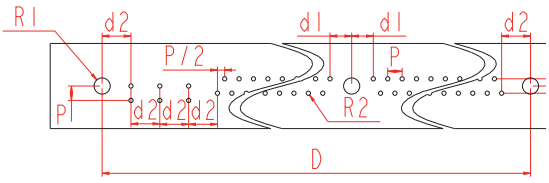
- Receptacle KE
- YC & coaxial F032/M032 contacts (male & female)

Daughterboard drilling YC + F032/M032 contacts*



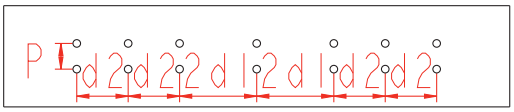
- Receptacle IE
- YC & coaxial F032/M032 contacts (male & female)

Motherboard drilling Y + F041/M041 contacts*

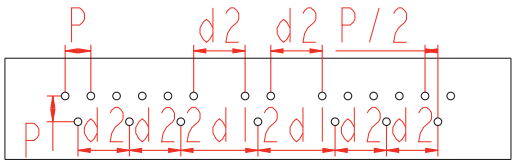


- Receptacle with K-KD-KT fittings and plug E-EF-ES-T fittings.
- Y & coaxial F041 / M041 contacts (male & female contacts)

Contact F041/M041



Contact F032/M032



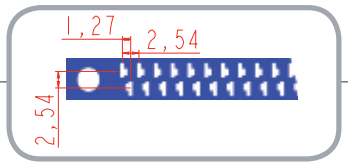
D	d_1	d_2	p	$p_{/2}$	h_0	h_1	h_2	R_1	R_2	h
See above	3.81 [.150]	5.08 [.200]	2.54 [.100]	1.27 [.050]	3 MAX [.118]	1.9 [.075]	0.64 [.025]	Ø 2.85 MIN Ø0.2 [.112]	Ø 0.75 MIN Ø0.2 [.030]	9.35 [.368]

** in mm: 1mm = 0.03937 inch*

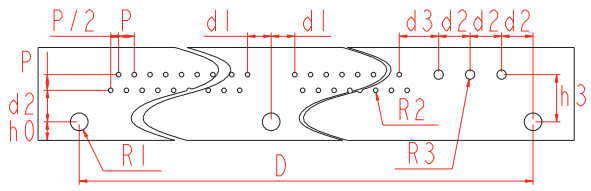
All dimensions are given for information only and are in mm [inch], except as otherwise specified

127 / HE8 >>> HE 807

LAYOUTS. POWER CONTACTS.

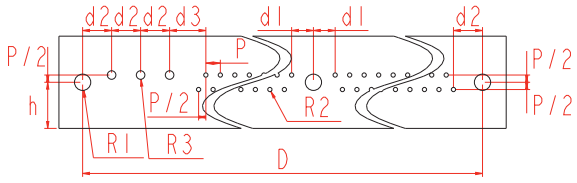


Daughterboard drilling YC + FH3/MH3 & F132/M132



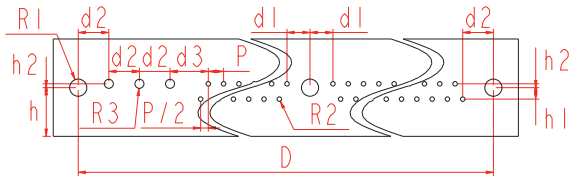
- Receptacle with KET fitting & plug with A-D-AS-PA fittings
- YC & power FH3 / MH3 & F132 / M132 contacts (male & female)

Daughterboard drilling YC + FH3/MH3 & F132/M132



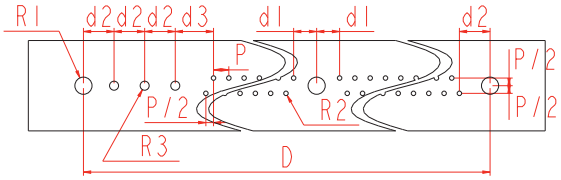
- Receptacle with KE fitting
- YC & power FH3 / MH3 & F132 / M132 contacts (male & female)

Daughterboard drilling YC + FH3/MH3 & F132/M132



- Receptacle with IE fitting
- YC & power FH3 / MH3 & F132 / M132 contacts (male & female)

Daughterboard drilling Y + FH2/MH2 & F141/M141



- Receptacle with K-KD-KT fitting with Y & power FH2 / MH2 & F141 / M141 contacts (male & female)
- Plug with E-EF-ES-T fittings with Y & power FH2 / MH2 & F141 / 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 [.200]	6.35 [.250]	2.54 [.100]	1.27 [.050]	3 MAX [.118]	1.9 [.075]	0.64 [.025]	7.62 [.300]	Ø 2.85 MIN ⌖ Ø0.2 [.112]	Ø 0.75 MIN ⌖ Ø0.2 [.030]	Ø 1.5 MIN ⌖ Ø0.2 [.059]	9.35 [.368]

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	YD	X1	Z	W3	Y	U	T	YL	YC	FEMALE FITTING RECEPTACLE	YC	YL	U	Y	W3	ZC	X	COMPATIBLE MALE FITTINGS Connector with female contacts
										AET	X	X						
RT							X	X	X	KET								ET
										AT				X	X	X	X	
		X	X	X	X					KT								
JS										AED	X	X						AS
NS							X	X	X	KED								NS
RS										AD				X	X	X	X	ES
		X	X	X	X					KD								
S										DC				X	X	X	X	D
NF		X	X	X	X					SC								NF
RF										D				X	X	X	X	EF
		X	X	X	X					S								
J										L								A
PC										AE	X	X	X					PA
N							X	X	X	KE								N
V										B				X	X	X	X	V
R	X	X	X	X	X					P								E
T										A				X	X	X	X	T
	X	X	X	X	X					K								
FEMALE CONTACTS	YD	X1	Z	W3	Y	U	T	YL	YC		YC	YL	U	Y	W3	ZC	X	MALE CONTACTS
							X	X	X	A								
										J	X	X						
							X	X	X	PA								
A										PC	X	X						K
B										H								P
AE						X				N			X					KE
						X				V			X					
	X	X	X	X	X					E								
										R				X	X	X	X	
	X	X	X	X	X					T				X	X	X	X	
							X	X	X	D								
										S	X	X						
D						X				NF			X					S
DC	X	X	X	X	X					EF								SC
										RF				X	X	X	X	
							X	X	X	AS								
										JS	X	X						
AD						X				NS			X					KD
AED	X	X	X	X	X					ES								KED
										RS				X	X	X	X	
AT		X	X	X						ET								KT
AET										RT					X	X	X	KET
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	YD	X1	Z	W3	Y	U	T	YL	YC	FEMALE FITTING RECEPTACLE	YC	YL	U	Y	W3	ZC	X	COMPATIBLE MALE FITTINGS Connector with female contacts
										AET	X	X						
RT							X	X	X	KET								ET
										AT				X	X	X	X	
	X	X	X	X						KT								
										AED	X	X						
JS							X	X	X	KED								AS
NS										AD				X	X	X	X	NS
RS	X	X		X						KD								ES
										DC				X	X	X	X	
S		X	X	X	X					SC								D
NF										D				X	X	X	X	NF
RF		X	X	X	X					S								EF
	X	X	X	X	X					L								
J										AE	X	X						A
PC							X	X	X	KE								PA
N										B				X	X	X	X	N
V	X	X	X	X	X					P								V
R										A				X	X	X	X	E
T	X	X	X	X	X					K								T
FEMALE CONTACTS	YD	X1	Z	W3	Y	U	T	YL	YC		YC	YL	U	Y	W3	ZC	X	MALE CONTACTS
							X	X	X	A								
										J	X	X						
							X	X	X	PA								
A										PC	X	X						K
B						X				H								P
AE						X				N			X					KE
						X				V			X					
	X	X	X	X	X					E								
										R				X	X	X	X	
	X	X	X	X	X					T				X	X	X	X	
							X	X	X	D								
D										S	X	X						S
DC						X				NF			X					SC
	X	X	X	X	X					EF								
										RF				X	X	X	X	
							X	X	X	AS								
AD										JS	X	X						KD
AED						X				NS			X					KED
	X	X	X	X	X					ES								
										RS				X	X	X	X	
AT		X	X	X						ET								KT
AET										RT					X	X	X	KET

COMPATIBLE FEMALE FITTINGS

Connector with male contacts

MALE FITTING PLUG

COMPATIBLE FEMALE FITTINGS

Connector with female contacts

127 / HE8 >>> FITTINGS & CONTACT COMPATIBILITIES

HE807

COMPATIBLE MALE FITTINGS Connector with male contacts										FEMALE FITTING RECEPTACLE								COMPATIBLE MALE FITTINGS Connector with female contacts
										AET								
ET							X	X	X	KETX	X	X						ET
										AT								
		X	X	X	X					KT				X	X	X	X	
										AED								
AS							X	X	X	KED	X	X						AS
ES										AD								ES
		X	X	X	X					KD				X	X	X	X	
										DC								
D										SC								D
EF										D								EF
		X	X	X	X					S				X	X	X	X	
										L								
A										AE								A
PA							X	X	X	KE	X	X	X					PA
E										B								E
T	X	X	X	X	X					P				X	X	X	X	T
										A								
	X	X	X	X	X					K				X	X	X	X	
FEMALE CONTACTS	YD	X1	Z	W3	Y	U	T	YL	YC		YC	YL	U	Y	W3	ZC	X	MALE CONTACTS
							X	X	X	A	X	X						
										J								
							X	X	X	PA	X	X						
										PC								
K										H								K
P										N								P
KE										V								KE
	X	X	X	X	X					E				X	X	X	X	
										R								
	X	X	X	X	X					T				X	X	X	X	
							X	X	X	D	X	X						
										S								
S										NF								S
	X	X	X	X	X					EF				X	X	X	X	
										RF								
							X	X	X	AS	X	X						
										JS								
KD										NS								KD
KED	X	X	X	X	X					ES				X	X	X	X	KED
										RS								
KT		X	X	X						ET					X	X	X	KT
KET										RT								KET

COMPATIBLE FEMALE FITTINGS Connector with male contacts	MALE FITTING PLUG	COMPATIBLE FEMALE FITTINGS Connector with female contacts

127 / HE8 >>> TOOLING

REMOVAL TOOLS

1272

- Pin: ZC / X / YC / YL
- Rear release

Part number	1272

24098

- Pin Y / W3 / U
- Front release

Part number	24098

1271

- Socket: YC / U / Z / X1 (HE 801 & HE 804)
- Rear release

Part number	1271

24099

- Socket: YC / U / Z / X1 (HE 807)
- Rear release

Part number	24099

20973

- Socket: W3
- Front release

Part number	20973

20143

- Socket: Y / YD
- Front release

Part number	20143

23550

- Socket: particular contacts HE 807
- Rear release

Part number	23550

INSERTION TOOL

1275

- Pin: X
- Insertion on the same side as removal
- Eased contact insertion

Part number	1275

CRIMPING TOOLS

HE 8 20 051

- Pin: X
- AWG 26 to 22
- No additional turret

Part number	HE 8 20 051

809801

- Socket: X1
- AWG 26 to 22
- Additional turret: 127.800.030
- Military reference: M22520/2-01

Part number	809801

NOTES