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P.C. CONNECTORS HE 801-804-807

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GENERALS

Two-parts P.C.B. connectors HE 801-804-807 series are designed with two or three rows of low frequency contacts on a 2.54×1.27 grid in a moulding, including also polarizing and guiding facilities.

HE 807 serie developed from the HE 801 include cavities for special terminations (coaxial, high power, etc.).

The two parts are respectively named « socket » and « plug ».

DESCRIPTION

Dyallil-phthalate mouldings with long glass-fibers.

Guides stainless-steel or nickel-plated brass.

Circular male contacts (HE 801-807) or rectangular (HE 804).

Identical female contacts for the three versions.

All of contacts are stamped out of a copper alloy, then plated gold over nickel. Clip retained, they are removable by use of the appropriate tool.

GENERAL CHARACTERISTICS PER NF/UTE-C-93424

Climatic : - 55 + 125 °C 56 days

Working voltage : 250 V RMS 50 Hz

Rated current per contact : 3 A

Mechanical endurance : 500 operations

Coaxial terminations per NF/UTE-C-93569 KMX 3 Serie

Characteristic impedance : 50 Ω

Frequency range : 0-1 GHz (VSWR : 1.3 max.)

Working voltage : 180 V RMS 50 Hz

Rated current : 0.5 A

High power terminations per NF/UTE-C-93569 KMX 3 Serie

Rated current : 10 A (Non standardized types : 20 A)

Contact resistance : 5 m Ω max.

Insertion / withdrawal force per contacts : $1 \leq F \leq 15$ N (ATI average \simeq 4N)

SPECIFICATIONS

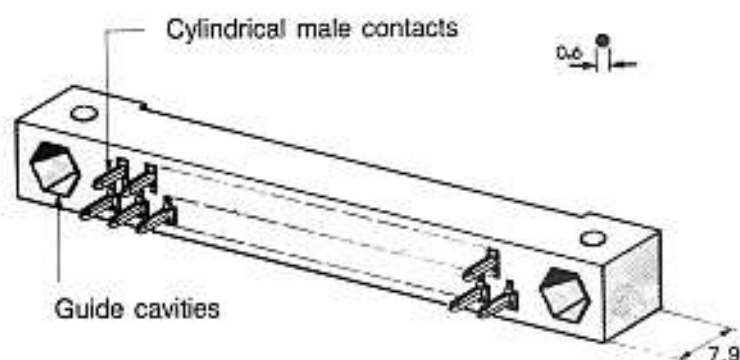
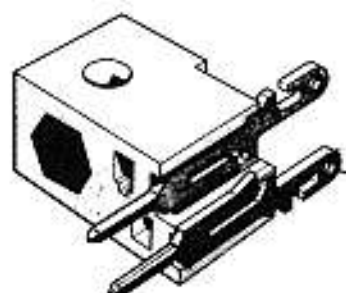
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NF / UTE-C93569
NF / UTE-C93480
CEI 130-16
MIL-C-55302
BS 9525 N 0001
BS 9525 F 0006
BS 9525 F 0027
BS 9525 F 0041

APPROVAL AND LISTS

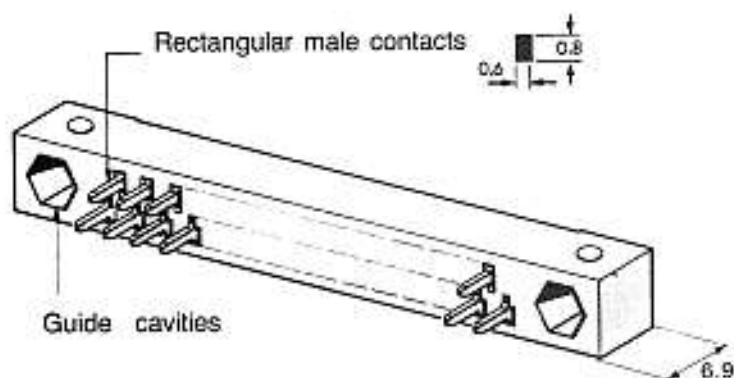
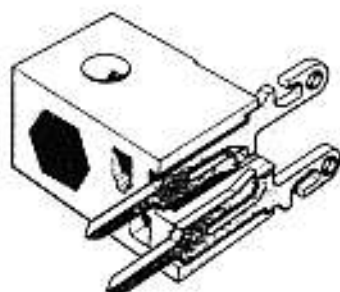
QPL - 420 / S / 4093
QPL - 421 / S / 4093
QPL - 422 / S / 4093
Quality insurance CCQ
RAQ-2 similar to NATO AQAP-4
GAM T1
MUAHAG
BS 9525 N 0001
BS 9525 F 0006
BS 9525 F 0027
BS 9525 F 0041

CHOICE OF THE SERIE

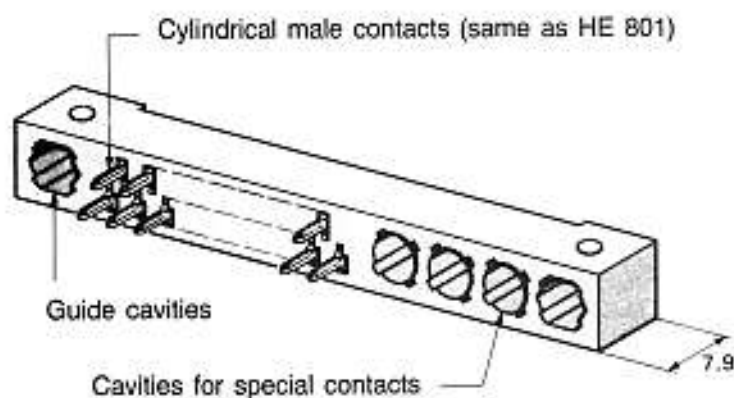
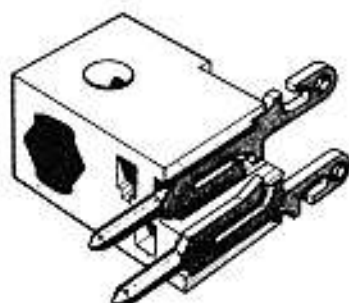
HE 801



HE 804

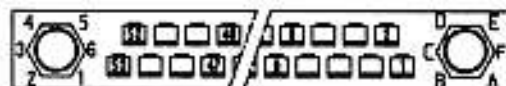


HE 807

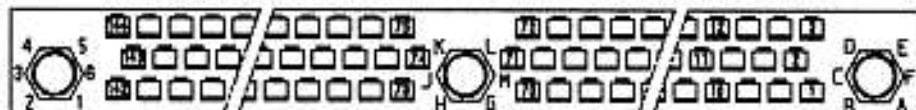


DENOMINATION AND MARKING

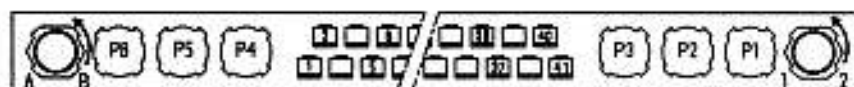
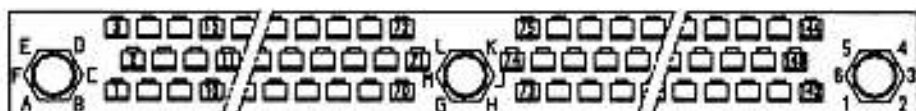
« SOCKET » and « PLUG » denominations determine the contacts - numbering ways as follows :



SOCKET numbering
viewed mating side
1 is right-down



PLUG numbering
viewed mating side
1 is left-down



As per UTE-C-93424 sockets are generally fitted with female guides, while plugs are fitted with male guides.

GUIDES

The HE 801 - 804 - 807 series connectors are fitted with two or three guides providing both polarization and fixing.

Common guides are shown in the following chapters. Other types have been or can be developed (consult factory). Connectors with three guides have a smooth central fitting which can be polarized on request as mentioned by fittings P/N 313. The guides are ordered separately (recommended by the standard specification).

- 2 guides terminations

- 1 central guide termination if the moulding size is over 72 contacts.

Examples with references to a connector with 3 cavities for guide terminations :

2 extremity guide terminations HE 8 C 310

1 central guide termination HE 8 C 313

A connector ordered without guide termination is with the code guide termination 000.

This code mentioned on the order will not be printed on the moulding.

Ordering example : HE 804 EN 84 Z 1 B 000

marking on the moulding : HE 804 EN 84 Z 1 B

The guides are ordered with the connector.

For connectors with 72 ways and more, the central guide is identified by the end fitting guide terminations, so the reference to the centre guide is not included in the connector part number.

Example : HE 804 EN 84 Z 1 B 301

The guides are delivered in the same packing, but not fitted to the connector.

Fixing nuts and screws tightening torque (in cm. daN).

Screw diameter	Recommended torque	Maximum torque
1.6	0.7	0.9
2	1.4	1.8
2.5 to 3	2.7	3.6

STIFFENING BAR

A stiffening bar can be provided for mould sizes of 72 ways and over, fitted with non P.C. style contacts :

from 17 to 65 contacts all types

from 72 to 96 contacts Y and U types

from 72 to 144 contacts W, Z and S types : with stiffening bar : code B

} without stiffening bar = code A

A and B codes are parts of the identification (see identification and marking).

CONTACT PLATING

TABLE 1 TERMINATIONS PLATING					
MALES	STYLE	STANDARD PLATING		SPECIAL PLATING*	
	PY	TIN ALLOY	Code 3	GOLD	Code 2
	PU	TIN ALLOY	Code 3	GOLD	Code 2
	NZ	TIN ALLOY	Code 3	GOLD	Code 2
	NW	GOLD	Code 2	TIN ALLOY	Code 3
	NS2	GOLD	Code 2		
	NY	TIN ALLOY	Code 3	GOLD	Code 2
	NM	GOLD	Code 2		
FEMALES	BY	TIN ALLOY	Code 3	GOLD	Code 2
	BU	TIN ALLOY	Code 3	GOLD	Code 2
	CU	TIN ALLOY	Code 3	GOLD	Code 2
	DU	TIN ALLOY	Code 3	GOLD	Code 2
	SZ	TIN ALLOY	Code 3	GOLD	Code 2
	SW	GOLD	Code 2		
	SY	TIN ALLOY	Code 3	GOLD	Code 2
	SS1	GOLD	Code 2		

TABLE 2 CONTACT ZONE GOLD PLATING THICKNESS		
0.8 um mini	CODE 0.8	STANDARD PLATING
1.27 um mini	CODE 1.2	SPECIAL PLATINGS (*)
OTHERS		
Nickel underlay 1.27 um general per UTE C 93480		

IMPORTANT NOTICE* :

Plating differing from standard demand minimum quantities of contacts : consult factory.

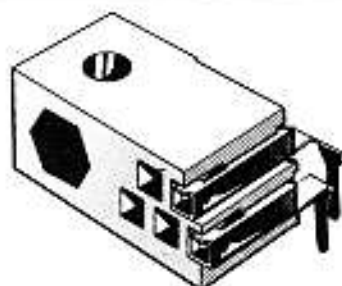
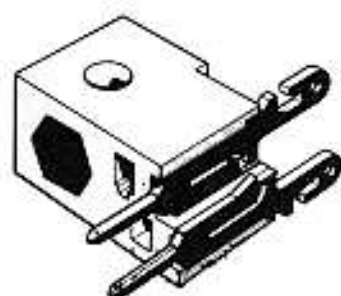
Plating codes are included in the reference (see Marking and Identification).

HE 801 serie

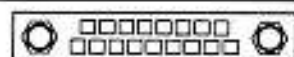
Model	Capacity	Power	Speed	Weight	Dimensions	Price
HE 801	1000	1000	1000	1000	1000	1000
HE 802	1000	1000	1000	1000	1000	1000
HE 803	1000	1000	1000	1000	1000	1000

MOULDINGS

Guide termination
Polarising 6 positions



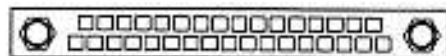
17



29



33



41



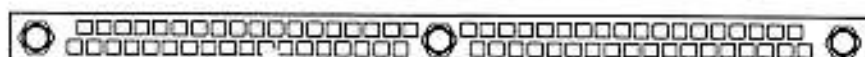
53



65



72



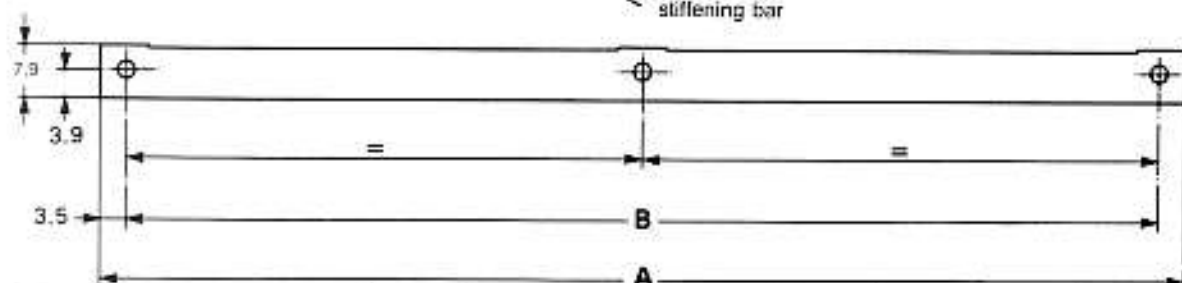
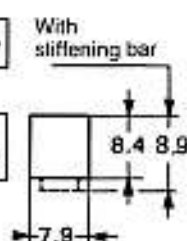
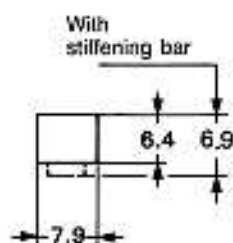
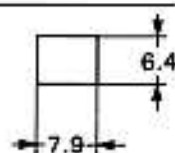
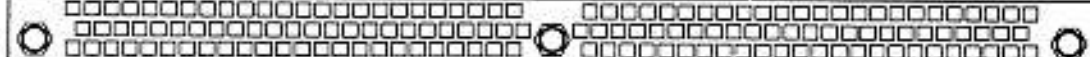
84



96



144 (*)



CONTACTS	17	29	33	41	53	65	72	84	96	144
A	37.50	52.70	57.80	68.00	83.20	98.50	113.70	128.90	144.20	144.20
B	30.48	45.72	50.80	60.96	76.20	91.44	106.68	121.92	137.16	137.16

(*) - the 144 way connector is only fitted with NW, NY, BY, SZ, SW, SY, SR 2 contacts
- other 3 rows mouldings, consult factory.

MARKING AND IDENTIFICATION

ACCORDING TO THE SPECIFICATION NFC 93424

IDENTIFICATION :

ex : **HE 801** **E** **N** **53** **Y** **0** **A** **000** **3** **0,8**

Serie

Denomination and marking (p. 4 & 10)

Gender (p. 10 & 11)

Number of contacts (p. 8)

Contact termination (p. 10 & 11)

Dismounting side (p. 11)

Stiffening bar (p. 5 & 8)

Guide code (p. 5 & 12 to 14)

Termination plating (p. 6 Table 1)

Contact zone plating (p. 6 Table 2)

MARKING

Consists of the above standard (or specific) identification marking and includes :

- ATI's logo and trade-mark
- manufacturing date code (Y/W)
- quality assurance or qualifications logos
- individual contact cavities and polarization numbering

RECALL : 000 code : guides ordered separately is not marked (p. 5).

GUIDES IDENTIFICATIONS

ex : HE 8 C 412

PLUGS AND SOCKETS



STANDARD MATING

DENOMINATIONS	
MALE PLUGS	FEMALE SOCKETS
	ES Z
FP Y	ES W
FP U	ES Y
DENOMINATIONS	
MALE-SOCKETS	FEMALE-PLUGS
EN Z	FS W
EN W	FB Y
EN S2	FB U
EN Y	FS S1

PARTICULAR APPLICATIONS

Can be used in all applications with standard mating (extension, daughter-board to daughter-board, mother-board to mother-board).

DENOMINATIONS	
PLUGS	SOCKETS
The existing connector has a plug marking	The marking of the mating connector becomes
FP Y	EB Y
FB Y	EP Y
FP U	EB U
FB U	EP U
FN Z	ES Z
FS Z	EN Z
FN Y	ES Y
FS Y	EN Y
FN W	ES W
FS W	EN W

The marking of the mating connector becomes

The existing connector has a socket marking

LOW FREQUENCY TERMINATIONS

STANDARD TERMINATIONS

GENSER TYPE	MALE		FEMALE	GENSER TYPE
PY		Male and female contacts with tails at 90° direct mounting on to p.c.b. Suitable for individual or flow soldering. Removable from the rear = 1		BY
PU		Male and female contacts for mounting edge-on double-sided p.c.b.'s. The centre of the board is on the centre line of connector. Removable from the front = 0		BU
NZ		Male and female contacts with solder tails suitable for wire dia. 1 mm max. (0.78 mm ²) Removable from the rear = 1		SZ
NW		Male and female contacts with 0.6 x 0.6 mm (0.025") square miniwrap tails suitable for up to 3 wraps of 30 or 28 a.w.g. wire. Removable from the front = 0		SW
NS2		Crimp contacts for a.w.g. 22-26. Terminations protected by a casing bonded to the moulding. Removable front the rear = 1 Crimping tools (p. 47) M22520 2 01 HE 8 -20051 Positioner ATI B 08		SS1
NY		Male and female contacts with p.c. straight tails for direct mounting on to p.c.b. Suitable for individual or flow soldering. Standard (Ø 0.75 mm min.) drilling. Centered guide. Removable from the front = 0		SY

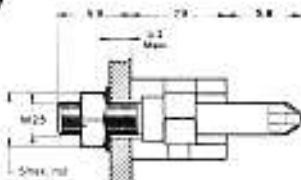
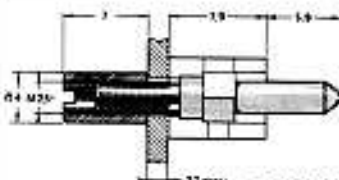

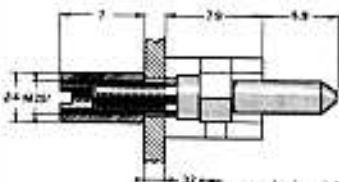
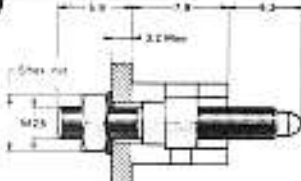
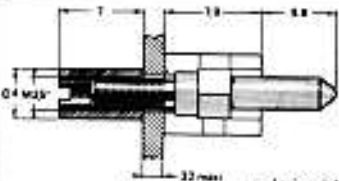
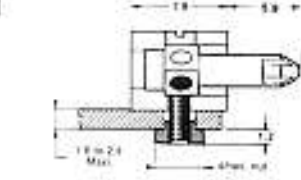
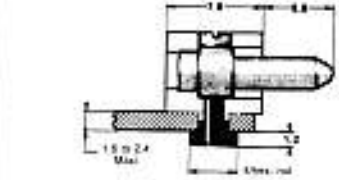

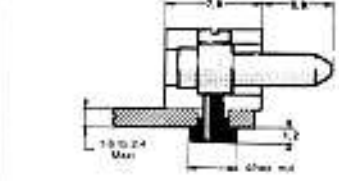
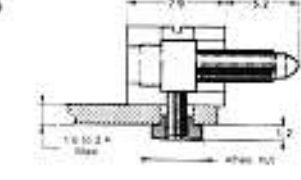
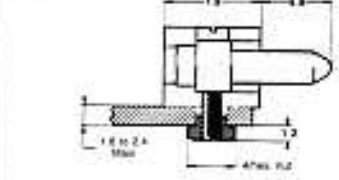
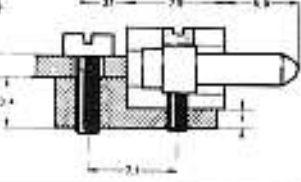

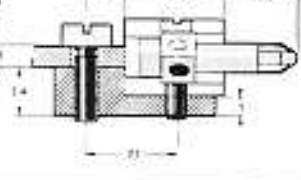
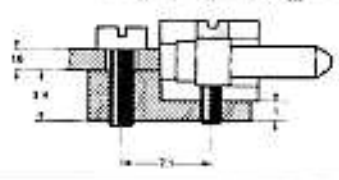
NON-STANDARD TERMINATIONS

NM		Crimp type male contact for wire 22-26 a.w.g. Use the crimping tool HE 8-20051 (p. 47) Removable from the rear = 1		
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Example to order contact separately : NW.

MALE GUIDES

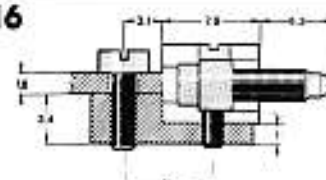
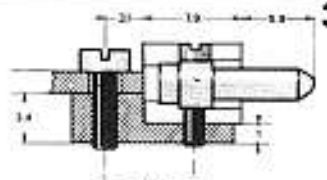
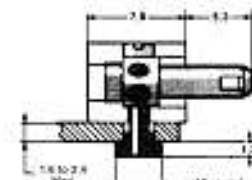
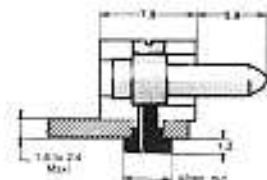
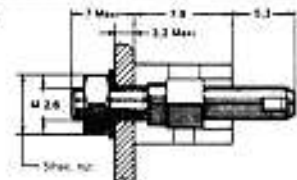
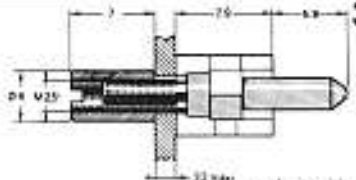

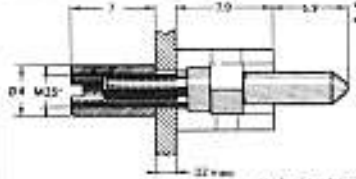
stainless steel *

END FITTINGS		CENTRAL FITTINGS
317 	For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with female guides 403, 406 or 412	313 
318 	For mother board or chassis Rigid rear mounting with nut Without coding Mate with female guides 403, 406 or 412	313 
319 	Threaded guide for mother board or chassis Rigid rear mounting with nut Without coding Mate with female guide 413 only	313 
301 	For daughter board Rigid side mounting with nut 6 polarising positions Mate with female guides 403, 406 or 412	302 
302 	For daughter board Rigid side mounting with nut Without coding Mate with female guides 403, 406 or 412	302 
303 	Threaded guide for daughter board Rigid side mounting with nut Without coding Mate with female guide 413 exclusively	302 
314 	For double sided daughter board aligned with fitting centre line Rigid end mounting with screw Without coding Mate with female guides 403, 406 or 412	314 
315 	For double sided daughter board aligned with fitting centre line Rigid end mounting with screw 6 polarising positions Mate with female guides 403, 406 or 412	314 

* Guides in Nickel brass : change the 3., by 1.. Example : 301 stainless steel becomes 101 (Ni brass).

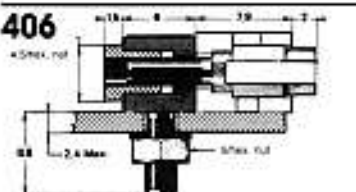

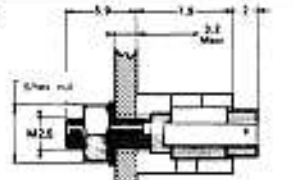
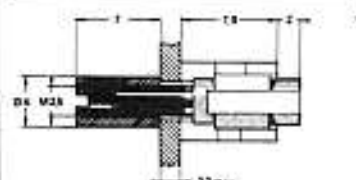
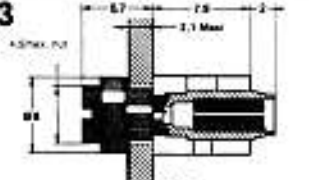
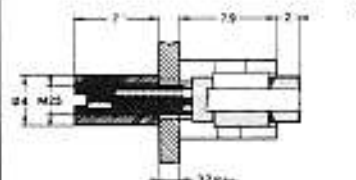
MALE GUIDES

stainless steel *

END FITTINGS		CENTRAL FITTINGS
316 	Threaded guide for double sided daughter board aligned with fitting centre line Rigid end mounting with screw Without coding Mate with female guide 413 only	314 
324 	For daughter board Rigid side mounting with nut 6 polarising positions lockable Mate with female guides 421, 424 only	302 
325 	For mother board or chassis Rigid rear mounting with nut 6 polarising positions lockable Mate with female guides 421, 424 only	313  <p>polarized type 330</p>
327 	For daughter board 6 polarising positions lockable with 1/4 of a turn Mate with female guides 422, 425 only	313  <p>polarized type 330</p>

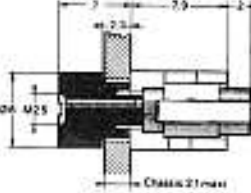
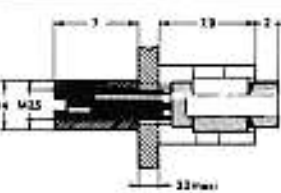
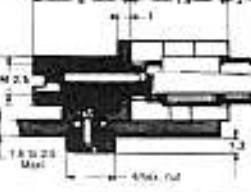
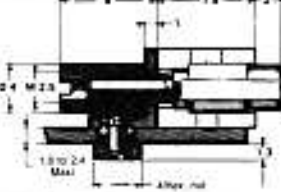
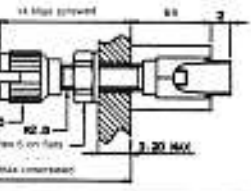
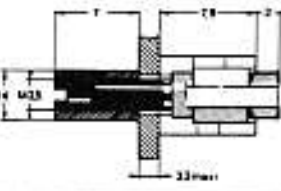
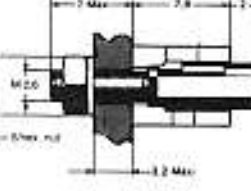
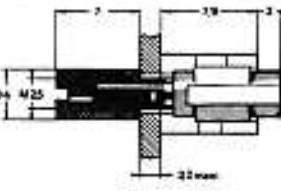
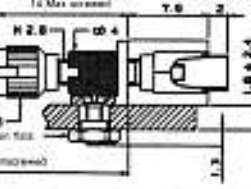
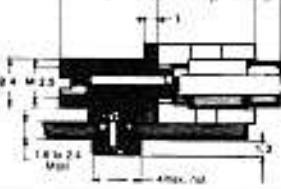
FEMALES GUIDES

stainless steel *

406 	For daughter board Rigid side mounting with nut 6 polarising positions Mate with male guides 301, 302, 314, 315, 317 or 318	406 
412 	For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with male guides 301, 302, 314, 315, 317 or 318	429 
413 	Similar to the guide 419 Extractor nut for chassis or cable Floating rear mounting with nut Without coding Mate with male guides 303, 316 or 319	429 

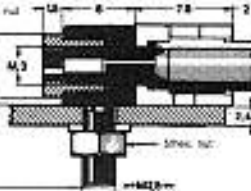
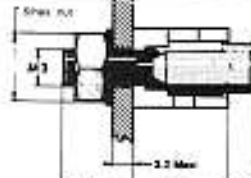
* Guides in Nickel brass : change the 4.. by 2.. Example : 401 stainless steel becomes 201 (Ni brass).

FEMALE GUIDES**stainless steel *****END FITTINGS****CENTRAL FITTINGS**

403 	<p>For chassis Floating rear mounting with nut 6 polarising positions Mate with male guides 301, 302, 314, 315, 317 or 318</p>	 429
408 	<p>For daughter board Rigid side mounting with nut 6 polarising positions Mate with male guides 301, 302, 317, 314, 315, 317 or 318</p>	 408
421 	<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions, lockable Mate with male guides 324, 325 only</p>	 429
422 	<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions, lockable with $\frac{1}{4}$ of a turn Mate with male guide 327 only</p>	 429
424 	<p>For daughter board Rigid side mounting 6 polarising positions, lockable Mate with male guides 324 or 325</p>	 408

On request : Guide 425 - for daughter board, rigid side mounting, 6 polarising positions lockable with $\frac{1}{4}$ of a turn, mate with a male guide 327 only.

GUIDES FOR COVER

411 	<p>For daughter board Rigid side mounting with nut 6 polarising positions lockable Mate with cover E 891 C series</p>	<p>(p. 44)</p>
410 	<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions lockable Mate with cover E 891 C series</p>	<p>(p. 44)</p>

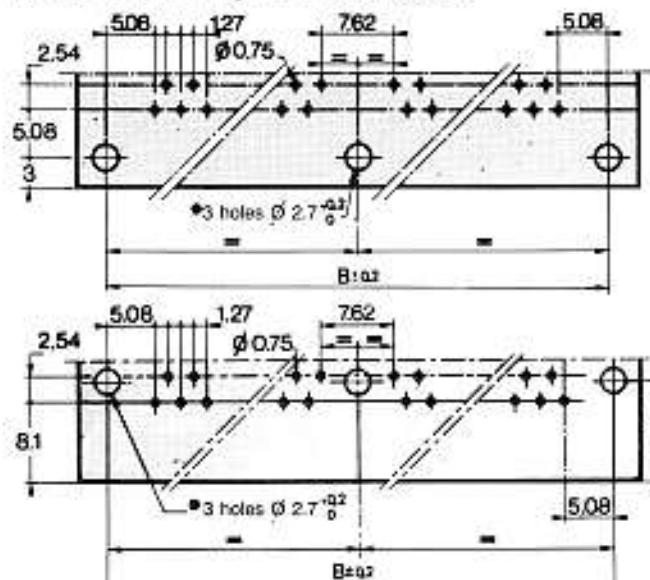
* Guides in Ni brass : change the 4.. by 2.. Example : 401 stainless steel becomes 201 (Ni brass).

MOUNTING DETAILS

CONNECTORS FROM 17 TO 96 WAYS

Mounting details for PCB (viewed mating side)

Connector fitted with PY, BY contacts

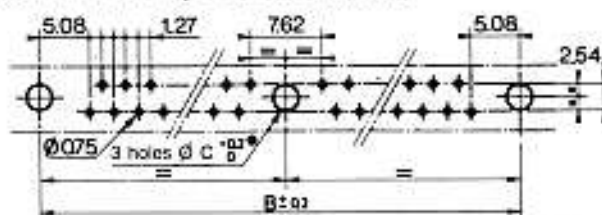


View from the connector side
Guides 301, 302, 303
Centre guide 302

Guides 406, 408, 411, 424
Centre guide 408

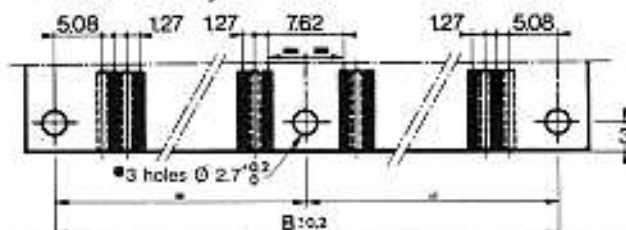
x { For 408, 424 = 10.35
x { For 406, 411 = 10

Connector fitted with NY, SY contacts



Guides 317, 318, 319, 412,
drilling C : $\varnothing 2.7$
Guide 410, drilling C : $\varnothing 3.2$
Centre guides 313, 429

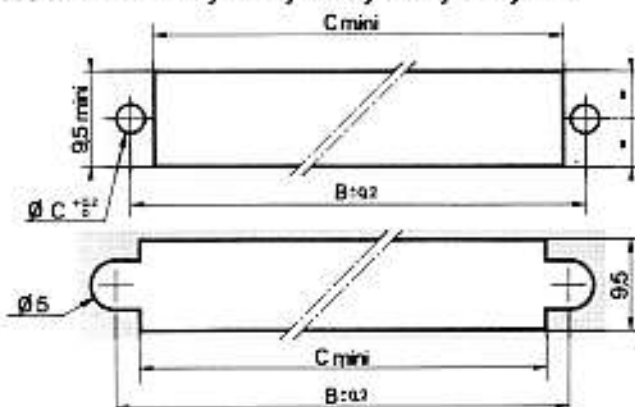
Connector fitted with PU, CU contacts



Guides 314, 315, 316
Centre guide 314

Mounting details for chassis

Connector fitted with NS, NM, NW, SW, NZ, SZ



Rigid mounting
Guides 317, 318, 319
drilling C : $\varnothing 2.7$
Guide 410 drilling C : $\varnothing 3.2$

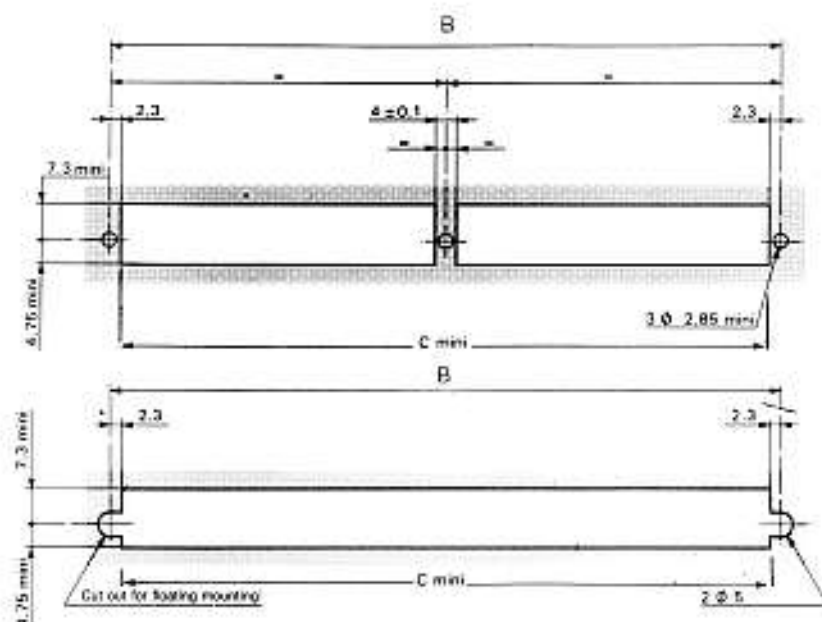
Float mounting
Guides 403, 413
Dimensions B & C see table
p. 16

* Central drilling for 72, 84 and 96 ways only.

MOUNTING DETAILS

144 WAY CONNECTOR

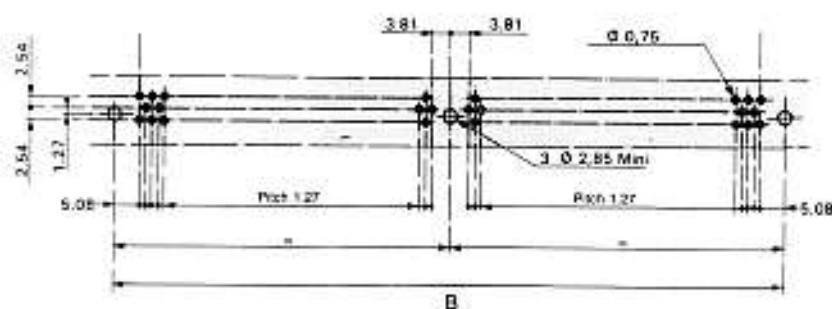
Mounting details for chassis



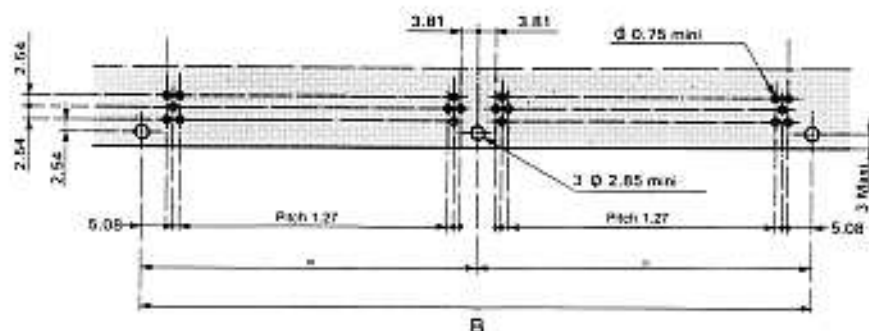
Rigid mounting

Float mounting

Mounting details for P.C.B. (Viewed mating side)



Contacts with straight P.C. tails

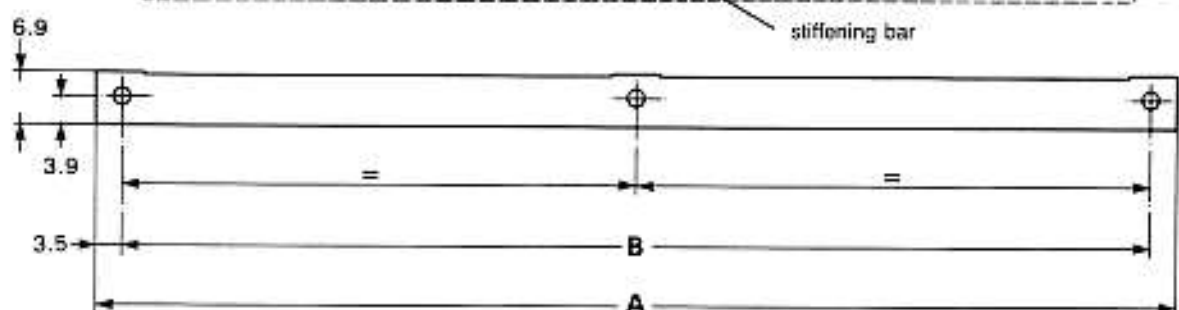
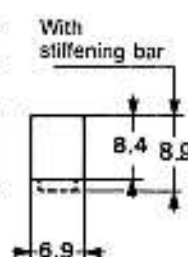
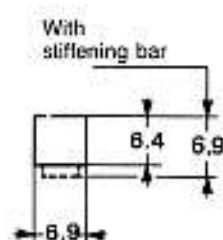
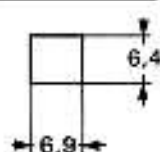
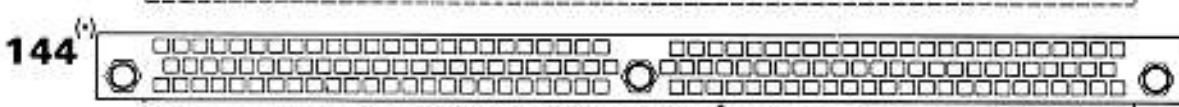
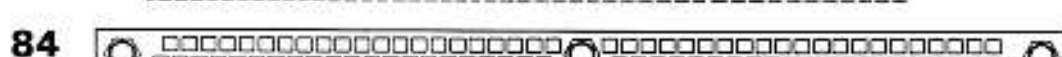
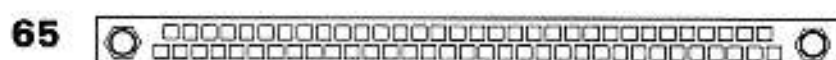
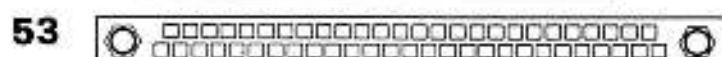
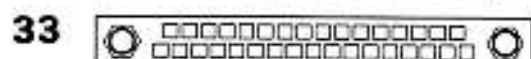
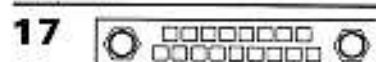
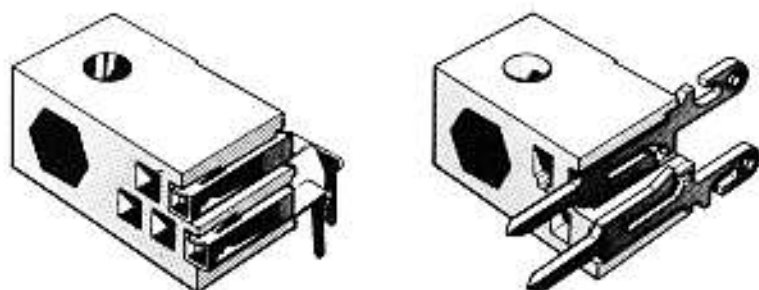


Female contact with 90° tails

Number of contacts	17	29	33	41	53	65	72	84	96	144
Figure B ± 0.2	30.48	45.72	50.80	60.96	76.20	91.44	106.88	121.92	137.16	137.16
Figure C ± 0.1	25.90	41.10	46.20	56.40	71.60	86.90	102.10	117.30	132.60	132.60

MOULDINGS

Guide termination
Polarising 6 positions



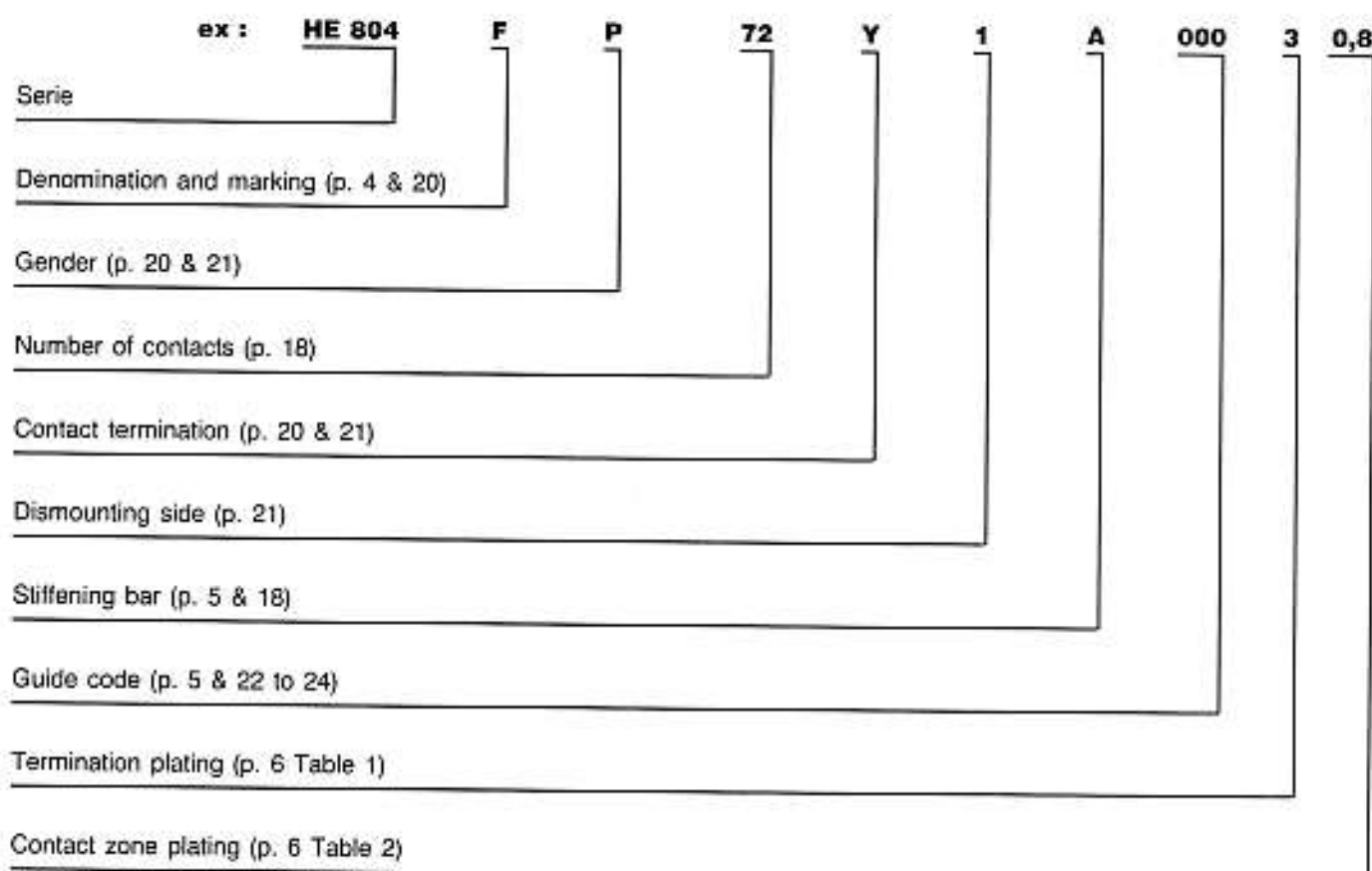
CONTACTS	17	29	33	41	53	65	72	84	96	144
A	37.5	52.7	57.8	68.0	83.2	98.5	113.7	128.9	144.2	144.2
B	30.48	45.72	50.8	60.96	76.20	91.44	106.68	121.92	137.16	137.16

(*) - the 144 ways connectors is only fitted with NW, NY, BY, SZ, SW, SY, SR 2 contacts
- other 3 rows mouldings, consult factory.

MARKING AND IDENTIFICATION

ACCORDING TO THE SPECIFICATION NFC 93424

IDENTIFICATION :



MARKING

Consists of the above standard (or specific) identification marking and includes :

- ATI's logo and trade-mark
- manufacturing date code (Y/W)
- quality assurance or qualifications logos
- individual contact cavities and polarization numbering

RECALL : 000 code : guides ordered separately is not marked (p. 5).

GUIDES IDENTIFICATIONS

ex : HE 8 C 301

PLUGS AND SOCKETS



STANDARD MATING

DENOMINATIONS

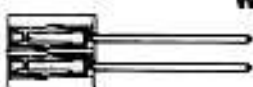
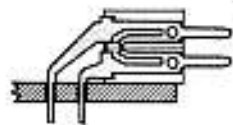
MALE PLUGS

FEMALE SOCKETS

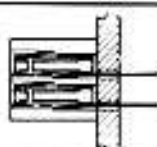
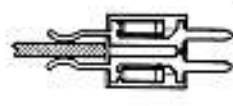
ES Z



FP Y ES W



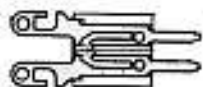
FP U ES Y



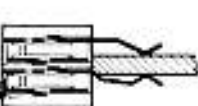
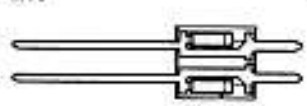
DENOMINATIONS
MALE-SOCKETS

DENOMINATIONS
FEMALE-PLUGS

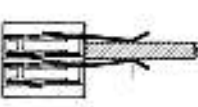
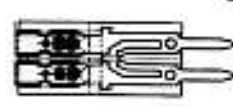
EN Z FB Y



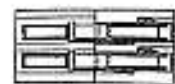
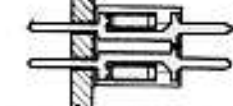
EN W FC U



EN S2 FD U



EN Y FS S1



PARTICULAR APPLICATIONS

Can be used in all applications with standard mating (extension, daughter-board to daughter-board, mother-board to mother-board).

DENOMINATIONS

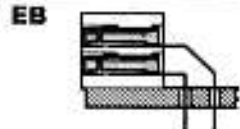
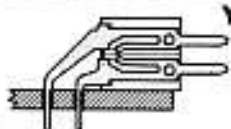
PLUGS

SOCKETS

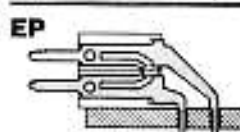
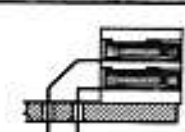
The existing connector has a plug marking

The marking of the mating connector becomes

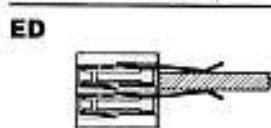
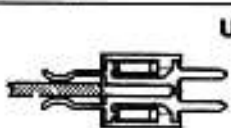
FP Y EB Y



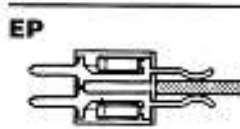
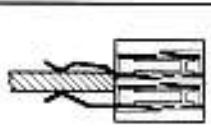
FB Y EP Y



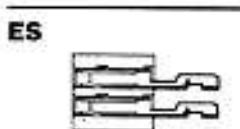
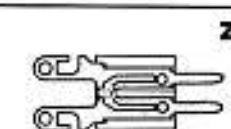
FP U ED U



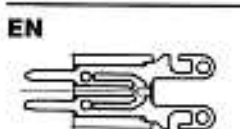
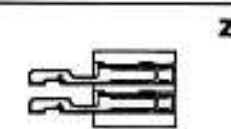
FC U EP U



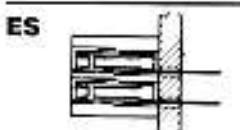
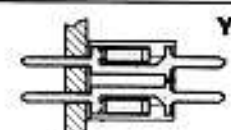
FN Z ES Z



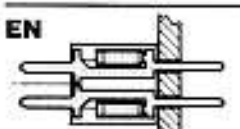
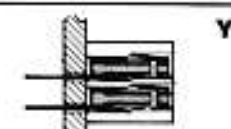
FS Z EN Z



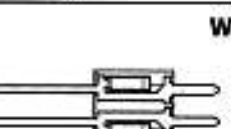
FN Y ES Y



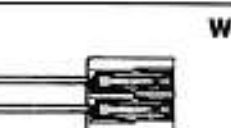
FS Y EN Y



FN W ES W



FS W EN W

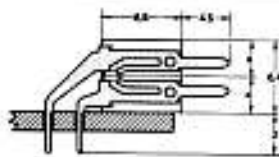
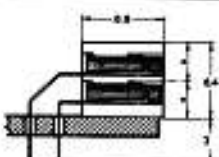
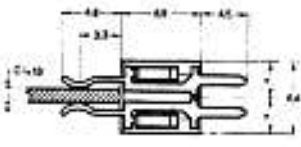
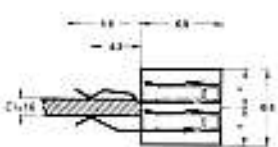
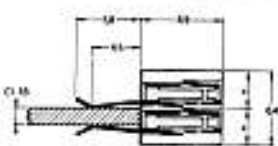
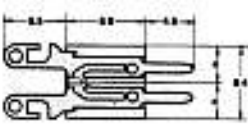
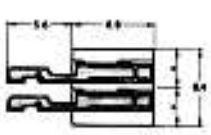
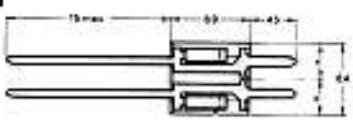
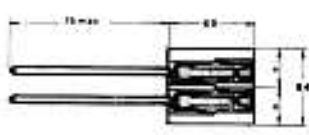
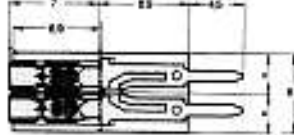

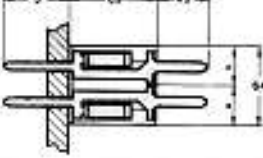
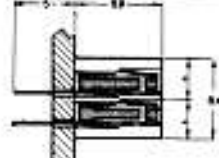


The marking of the mating connector becomes

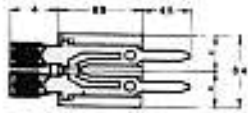
The existing connector has a socket marking

LOW FREQUENCY TERMINATIONS

STANDARD TERMINATIONS

GENDER TYPE	MALE	FEMALE	GENDER TYPE
PY	 <p>Male and female contacts with tails at 90° direct mounting on to p.c.b. Suitable for individual or flow soldering. Removable from the rear = 1</p>	 <p>BY</p>	
PU	 <p>Male and female contacts for mounting edge-on double-sided p.c.b.'s. The centre of the board is on the centre line of connector. Removable from the front = 0</p>	 <p>CU</p>	
	<p>Female contact for mounting edge on double-sided p.c.b.'s. Off centered board One side of the board is aligned with the centre of the connector. Removable from the front = 0.</p>	 <p>DU</p>	
NZ	 <p>Male and female contacts with solder tails suitable for wire dia. 1 mm max. (0.78 mm²) Removable from the rear = 1</p>	 <p>SZ</p>	
NW	 <p>Male and female contacts with 0.6 x 0.6 mm (0.025") square miniwrap : tails suitable for up to 3 wraps of 30 or 28 a.w.g. wire. Removable from the front = 0</p>	 <p>SW</p>	
N52	 <p>Crimp contacts for a.w.g. 22-26. Terminations protected by a casing bonded to the moulding. Removable from the rear = 1 Crimping tools (p. 47) M22520 2 01 HE 8 -20051 Positioner ATI B 08</p>	 <p>SS1</p>	
NY	 <p>Male and female contacts with p.c. straight tails for direct mounting on to p.c.b. Suitable for individual or flow soldering. Standard (φ 0.75 mm min.) drilling. Centered guide. Removable from the front = 0</p>	 <p>SY</p>	


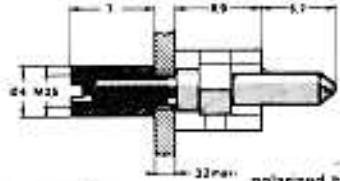
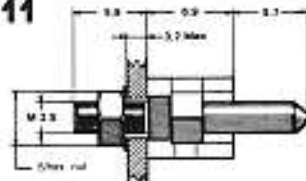
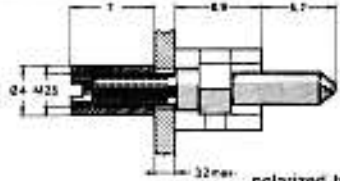
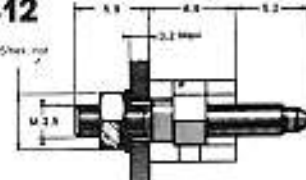
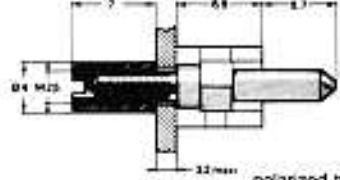
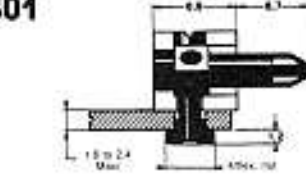
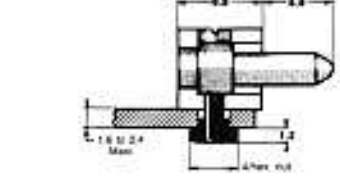
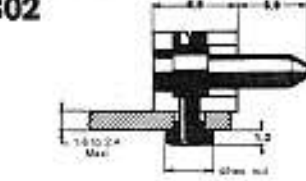
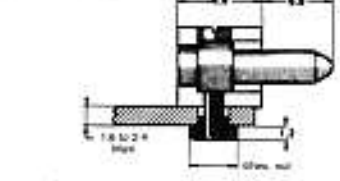
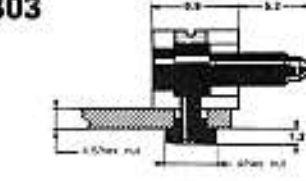
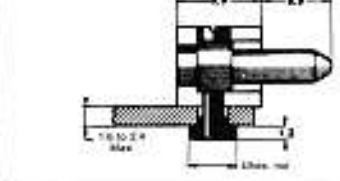
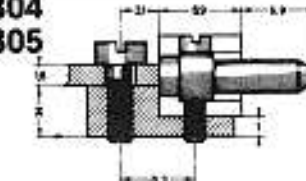
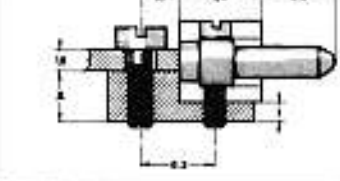
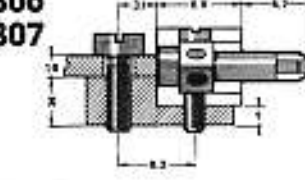
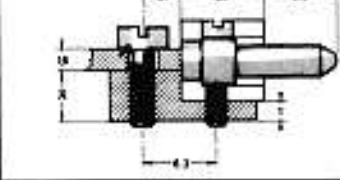
NON-STANDARD TERMINATIONS

NM 	<p>Crimp type male contact for wire 22-26 a.w.g. Use the crimping tool HE 8-20051 (p. 47) Removable from the rear = 1</p>	
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Example to order contact separately : N4 W.

MALE GUIDES

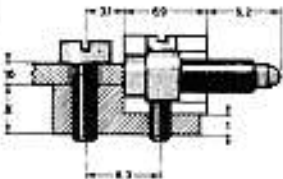
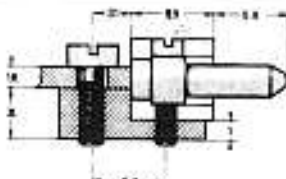
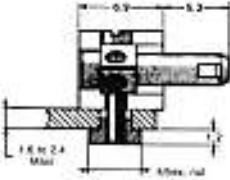

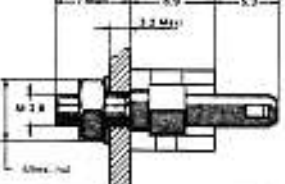
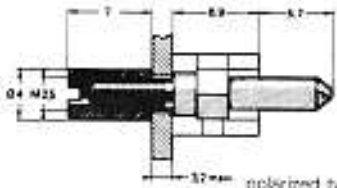
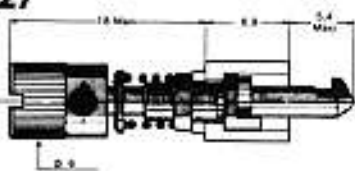
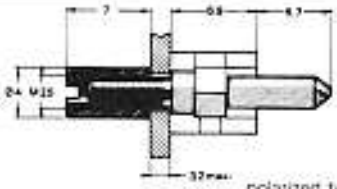
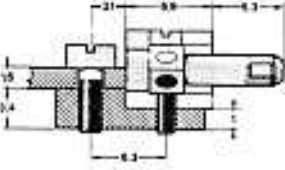
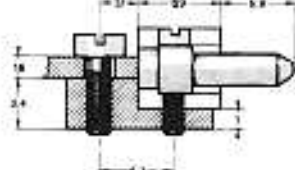
stainless steel *

END FITTINGS		CENTRAL FITTINGS	
310 	For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with female guides 401, 403, 406 or 409	 313 polarized type 328	
311 	For mother board or chassis Rigid rear mounting with nut Without coding Mate with female guides 401, 403, 406 or 409	 313 polarized type 328	
312 	Threaded guide for mother board or chassis Rigid rear mounting with nut Without coding Mate with female guide 407 only	 313 polarized type 328	
301 	For daughter board Rigid side mounting with nut 6 polarising positions Mate with female guides 401, 403, 406 or 409	 302	
302 	For daughter board Rigid side mounting with nut Without coding Mate with female guides 401, 403, 406 or 409	 302	
303 	Threaded guide for daughter board Rigid side mounting with nut Without coding Mate with female guide 407 only	 302	
304 305 	For double sided daughter board aligned with fitting centre line Rigid end mounting with screw Without coding Mate with female guides 401, 403, 406 or 409 Size x : 3.4 (304) centered PCB Size x : 2.7 (305) off centered PCB	 304 305	
306 307 	For double sided daughter board aligned with fitting centre line Rigid end mounting with screw 6 polarising positions Mate with female guides 401, 403, 406 or 409 Size x : (306-304) centered PCB Size x : (307-305) off centered PCB	 304 305	

* Guides in Ni brass : change the 3., by 1.. Example : 301 stainless steel becomes 101 (Ni brass).

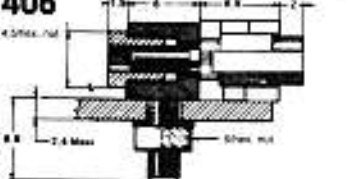
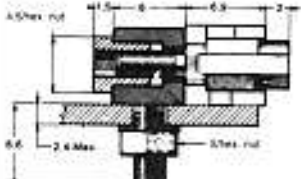
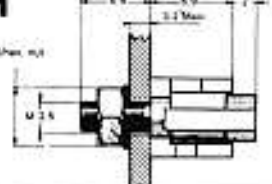
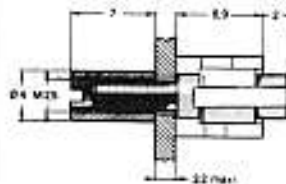
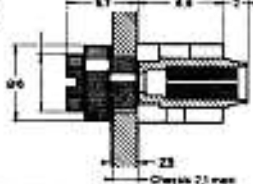
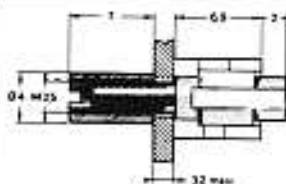
MALE GUIDES

stainless steel *

END FITTINGS	CENTRAL FITTINGS	
308 309  <p>Technical drawing showing a side view of a threaded male guide. Dimensions include: 31 (overall length), 5.2 (thread length), 6.2 (width), 1.5 (height), and 2 (width).</p>	<p>Threaded guide for double sided daughter board aligned with fitting centre line Rigid end mounting with screw Without coding Mate with female guide 407 only Size x : 3.4 (308-304) centered PCB Size x : 2.7 (309-305) off centered PCB</p>	 304 305 <p>Technical drawing showing a side view of a threaded male guide. Dimensions include: 31 (overall length), 5.2 (thread length), 6.2 (width), 1.5 (height), and 2 (width).</p>
324  <p>Technical drawing showing a side view of a male guide. Dimensions include: 5.2 (thread length), 1.5 to 2.4 (height), and 6.2 (width).</p>	<p>For daughter board Rigid side mounting with nut 6 polarising positions lockable Mate with female guides 421, 423 only</p>	 302 <p>Technical drawing showing a side view of a male guide. Dimensions include: 6.2 (width), 6.2 (width), 1.5 to 2.4 (height), and 6.2 (width).</p>
325  <p>Technical drawing showing a side view of a male guide. Dimensions include: 7.7 Max (overall length), 5.9 (thread length), 5.2 (thread length), and M 2.5 (thread).</p>	<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions lockable Mate with female guides 421, 423 only</p>	 313 <p>Technical drawing showing a side view of a male guide. Dimensions include: 7 (width), 6.2 (width), 6.2 (width), 0.4 M25 (thread), and 32 max (height). polarized type 330</p>
327  <p>Technical drawing showing a side view of a male guide. Dimensions include: 18 Max (overall length), 6.2 (width), 5.4 Max (height), and 2.5 (width).</p>	<p>For daughter board 6 polarising positions lockable with π of a turn Mate with female guides 422, 425 only</p>	 313 <p>Technical drawing showing a side view of a male guide. Dimensions include: 7 (width), 6.2 (width), 6.2 (width), 0.4 M25 (thread), and 32 max (height). polarized type 330</p>
326  <p>Technical drawing showing a side view of a male guide. Dimensions include: 31 (overall length), 5.9 (thread length), 6.2 (width), 1.5 (height), 0.4 (width), and 2 (width).</p>	<p>For double sided daughter board aligned with fitting centre line Rigid mounting with screw 6 polarising positions lockable Mate with female guides 421, 423 only</p>	 304 <p>Technical drawing showing a side view of a male guide. Dimensions include: 31 (overall length), 5.9 (thread length), 6.2 (width), 1.5 (height), 0.4 (width), and 2 (width).</p>

FEMALES GUIDES

stainless steel *

406  <p>Technical drawing showing a side view of a female guide. Dimensions include: 11.5 (overall length), 6 (width), 6.2 (width), 2 (width), 4.5 Max (height), 2.4 Max (height), and 5.7 Max (height).</p>	<p>For daughter board Rigid side mounting with nut 6 polarising positions Mate with male guides 301, 302, 304, 305, 306, 307, 310 or 311</p>	 406 <p>Technical drawing showing a side view of a female guide. Dimensions include: 11.5 (overall length), 6 (width), 6.2 (width), 2 (width), 4.5 Max (height), 2.4 Max (height), and 5.7 Max (height).</p>
401  <p>Technical drawing showing a side view of a female guide. Dimensions include: 6.2 (width), 5.9 (thread length), 3.7 Max (height), and M 2.5 (thread).</p>	<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with male guides 301, 302, 304, 305, 306, 310 or 311</p>	 429 <p>Technical drawing showing a side view of a female guide. Dimensions include: 7 (width), 6.2 (width), 2 (width), 0.4 M25 (thread), and 32 max (height).</p>
407  <p>Technical drawing showing a side view of a female guide. Dimensions include: 6.2 (width), 6.2 (width), 2 (width), 30 (height), and Check 7.1 max (width).</p>	<p>Similar to the guide 420 Extractor nut for chassis or cable Floating rear mounting with nut Without coding Mate with male guides 303, 309 or 312</p>	 429 <p>Technical drawing showing a side view of a female guide. Dimensions include: 7 (width), 6.2 (width), 2 (width), 0.4 M25 (thread), and 32 max (height).</p>

* Guides in Ni brass : change the 3.. by 1.. Example : 301 stainless steel becomes 101 (Ni brass).

FEMALE GUIDES

stainless steel *

END FITTINGS		CENTRAL FITTINGS	
403		<p>For chassis Floating rear mounting with nut 6 polarising positions Mate with male guides 301, 302, 304, 305, 306, 307, 310 or 311</p>	429
409		<p>For daughter board Rigid side mounting with nut 6 polarising positions Mate with male guides 301, 302, 304, 305, 306, 307, 310 or 311</p>	409
421		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions, lockable Mate with male guides 325, 324 only</p>	429
422		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions, lockable with 1/4 of a turn Mate with male guide 327 only</p>	429
423		<p>For daughter board Rigid side mounting 6 polarising positions, lockable Mate with male guides 325, 324 only</p>	409
428		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with male guides 301, 302, 304, 305, 306, 307, 310 or 311</p>	

On request : Guide 425 - for daughter board, rigid side mounting, 6 polarising positions lockable with 1/4 of a turn, mate with a male guide 327 only.

GUIDES FOR COVER

411		<p>For daughter board or chassis Rigid side mounting with nut 6 polarising positions lockable Mate with cover E 891 C series</p>	(p. 44)
410		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions lockable Mate with cover E 891 C series</p>	(p. 44)

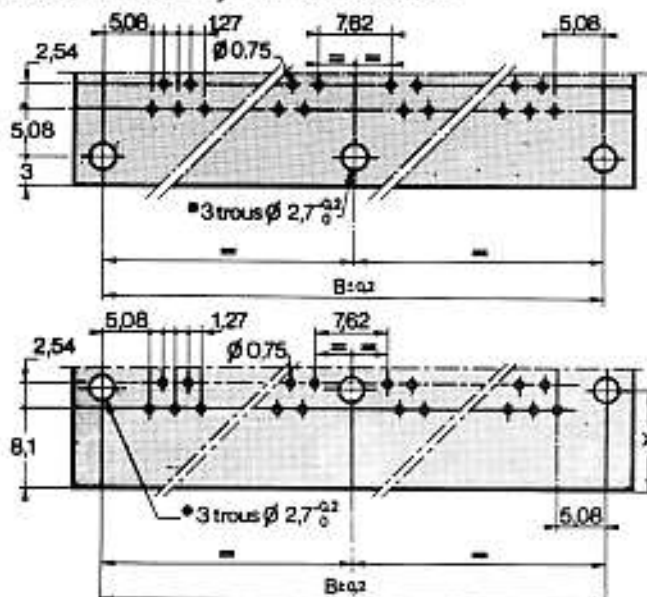
* Guides in Ni brass : change the 4.. by 2.. Example : 401 stainless steel becomes 201 (Ni brass).

MOUNTING DETAILS

CONNECTORS FROM 17 TO 96 WAYS

Mounting details for PCB (viewed mating side)

Connector fitted with PY, BY contacts

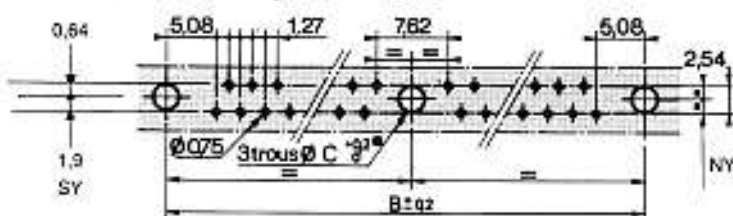


View from the connector side
Guides 301, 302, 303
Centre guide 302

Guides 406, 409, 411, 423
Centre guide 409

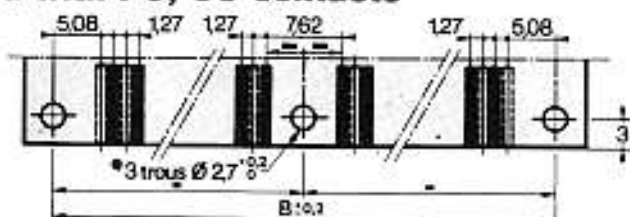
x { For 409, 423 = 9.35
x { For 406, 411 = 9

Connector fitted with NY, SY contacts



Guides 310, 311, 312, 401
drilling C : \varnothing 2.7
Guide 410, drilling C : \varnothing 3.2
Centre guides 313, 429

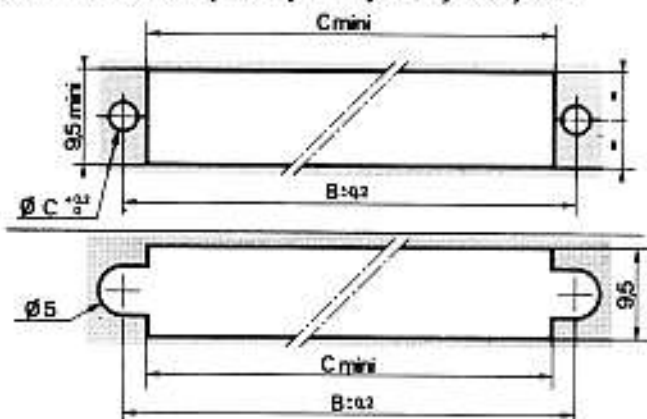
Connector fitted with PU, CU contacts



Guides 304, 305, 306, 307, 308, 309
Centre guides 304, 305

Mounting details for chassis

Connector fitted with NS, NM, NW, SW, NZ, SZ



Rigid mounting
Guides 310, 311, 312
drilling C : \varnothing 2.7
Guide 410 drilling C : \varnothing 3.2

Float mounting
Guides 403, 407

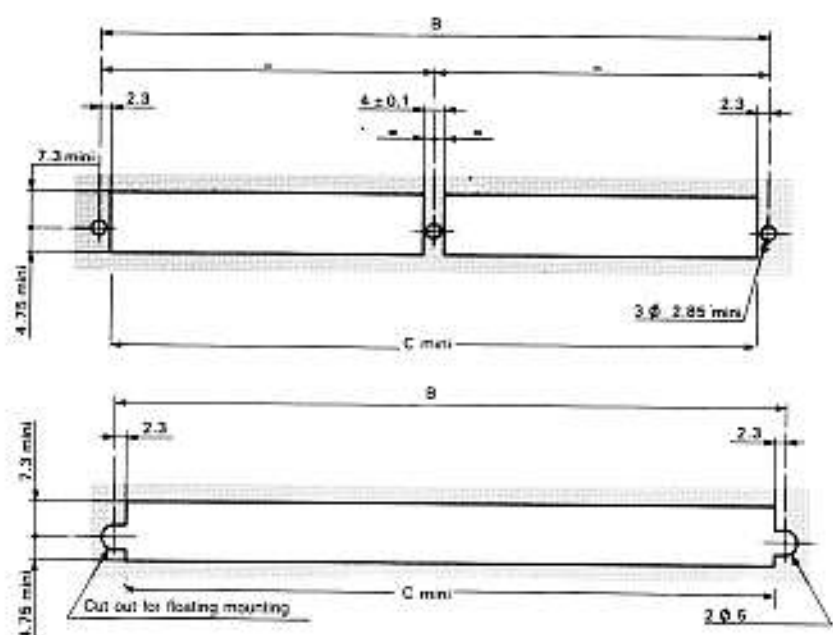
B & C Dimensions see table
p. 26

* Central drilling for 72, 84 and 96 ways only.

MOUNTING DETAILS

144 WAY CONNECTOR

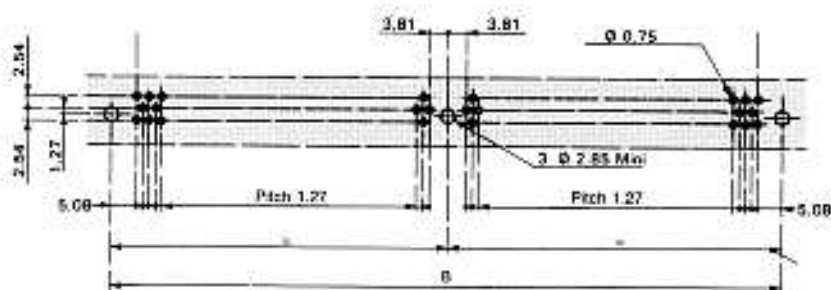
Mounting details for chassis



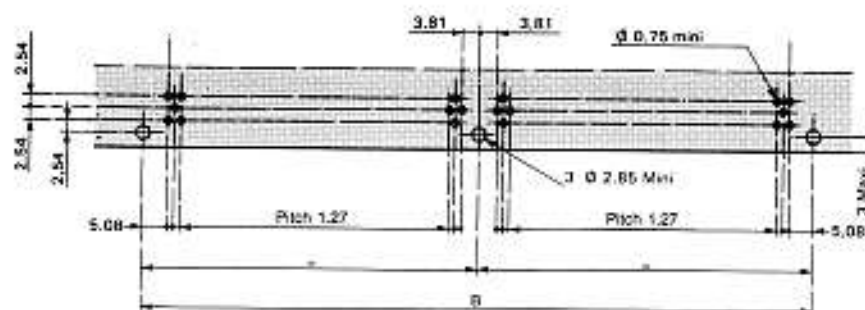
Rigid mounting

Float mounting

Mounting details for P.C.B. (Viewed mating side)



Male contacts with straight P.C. tails

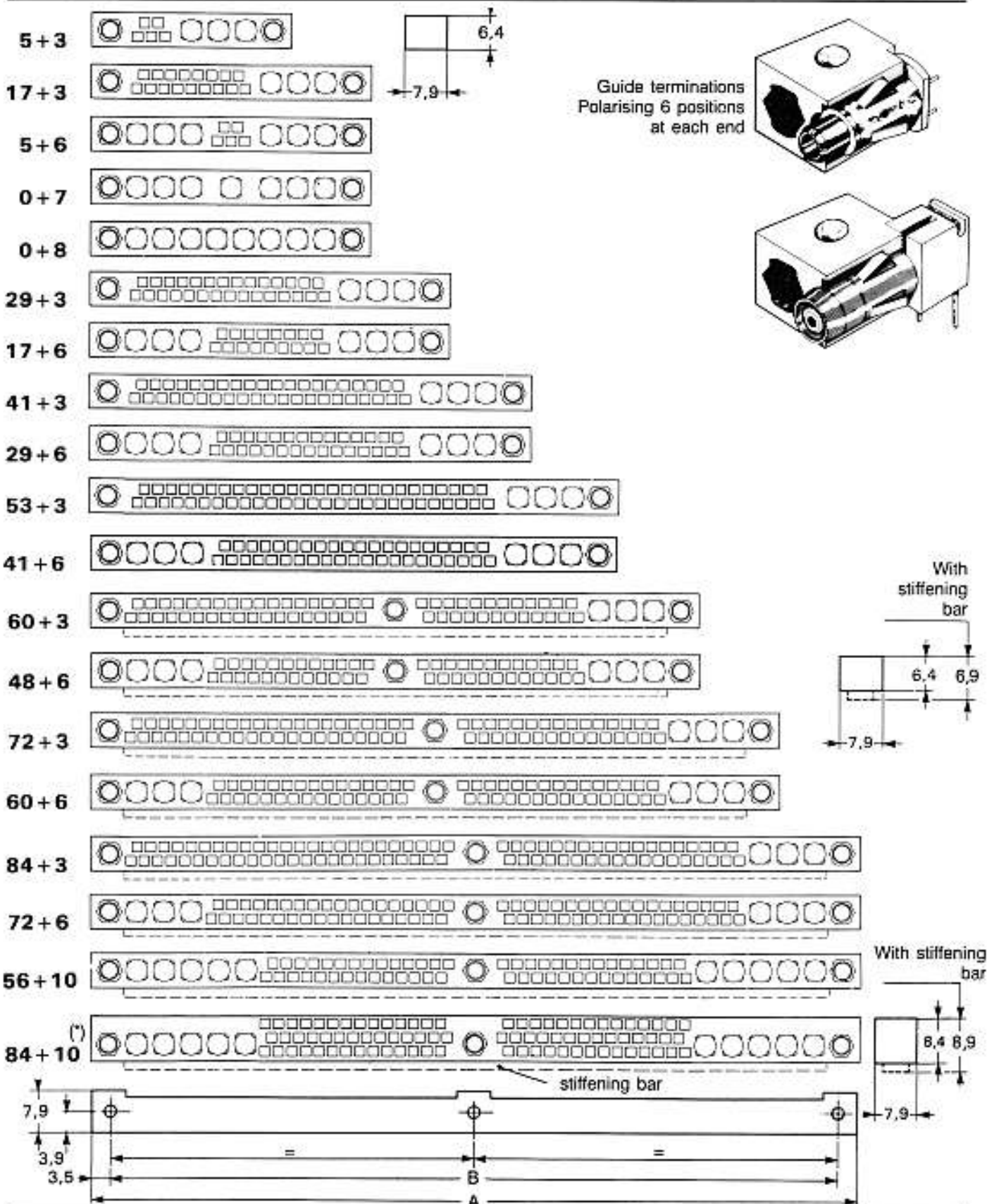


Female contact with 90° tails

Number of contacts	17	29	33	41	53	65	72	84	96	144
Figure B ± 0.2	30.48	45.72	50.80	60.96	76.20	91.44	106.88	121.92	137.16	137.16
Figure C ± 0.1	25.90	41.10	46.20	56.40	71.60	86.90	102.10	117.30	132.60	132.60

HE 807 serie

MOULDINGS



CONTACTS + CAVITIES	5 + 3	0 + 8 17 + 3 5 + 6 0 + 7	29 + 3	41 + 3	53 + 3	60 + 3	72 + 3	72 + 6 84 + 10 84 + 3 56 + 10
A	37.50	52.70	68.00	83.20	98.50	113.70	128.90	144.20
B	30.48	45.72	60.96	76.20	91.44	106.68	121.92	137.16

(*) - the 84 + 10 way connector is only fitted with NW, NY, BY, SZ, SW, SY, SR 2 contacts
- other 3 rows mouldings, consult factory.

MARKING AND IDENTIFICATION

ACCORDING TO THE SPECIFICATION NFC 93424

IDENTIFICATION :

	ex :	HE 807	F	B	72	Y	1	A	3	000	3	0,8
Serie												
Denomination and marking (p. 4 & 30)												
Gender (p. 30 & 31)												
Number of contacts (p. 28)												
Contact termination (p. 30 & 31)												
Dismounting side (p. 31)												
Stiffening bar (p. 5 & 28)												
Number of cavities (p. 28)												
Guide code (p. 5 & 32 to 34)												
Termination plating (p. 6 Table 1)												
Contact zone plating (p. 6 Table 2)												

7 & 8 CAVITIES ONLY

	ex :	HE 807	E	A	8	000
Serie						
Denomination and marking (p. 3 & 30)						
Without stiffening bar = A						
Number of cavities (p. 28)						
Guide code (p. 5 & 32 to 34)						

MARKING

Consists of the above standard (or specific) identification marking and includes :

- ATI's logo and trade-mark
- manufacturing date code (Y/W)
- quality assurance or qualifications logos
- individual contact cavities and polarization numbering

MARKING PARTICULARITIES

- 1 - Same number of cavities for special contacts at each end of the connector : the connector identified plug or socket can be fitted with male or female contacts.
 - 2 - Connectors with only 7 or 8 cavities for special contacts, except :
 - a - The connector fitted with male guides has a plug marking.
 - b - The connector fitted with female guides has a socket marking.
- EXAMPLE : HE 807 EA 8 412 - HE 807 FA 7 323

RECALL : 000 code : guides ordered separately is not marked (p. 5).

GUIDES IDENTIFICATIONS

ex : HE 8 C 301

PLUGS AND SOCKETS

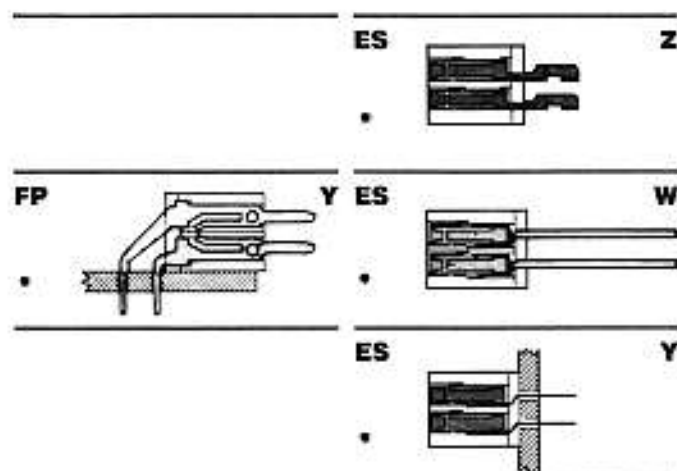


STANDARD MATING

DENOMINATIONS

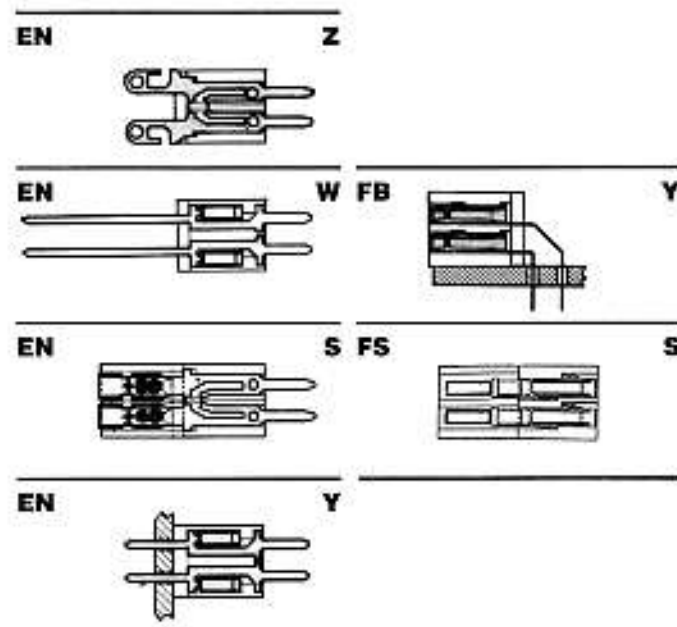
MALE PLUGS

FEMALE SOCKETS



DENOMINATIONS MALE-SOCKETS

DENOMINATIONS FEMALE-PLUGS



PARTICULAR APPLICATIONS

Can be used in all applications with standard mating (extension, daughter-board to daughter-board, mother-board to mother-board).

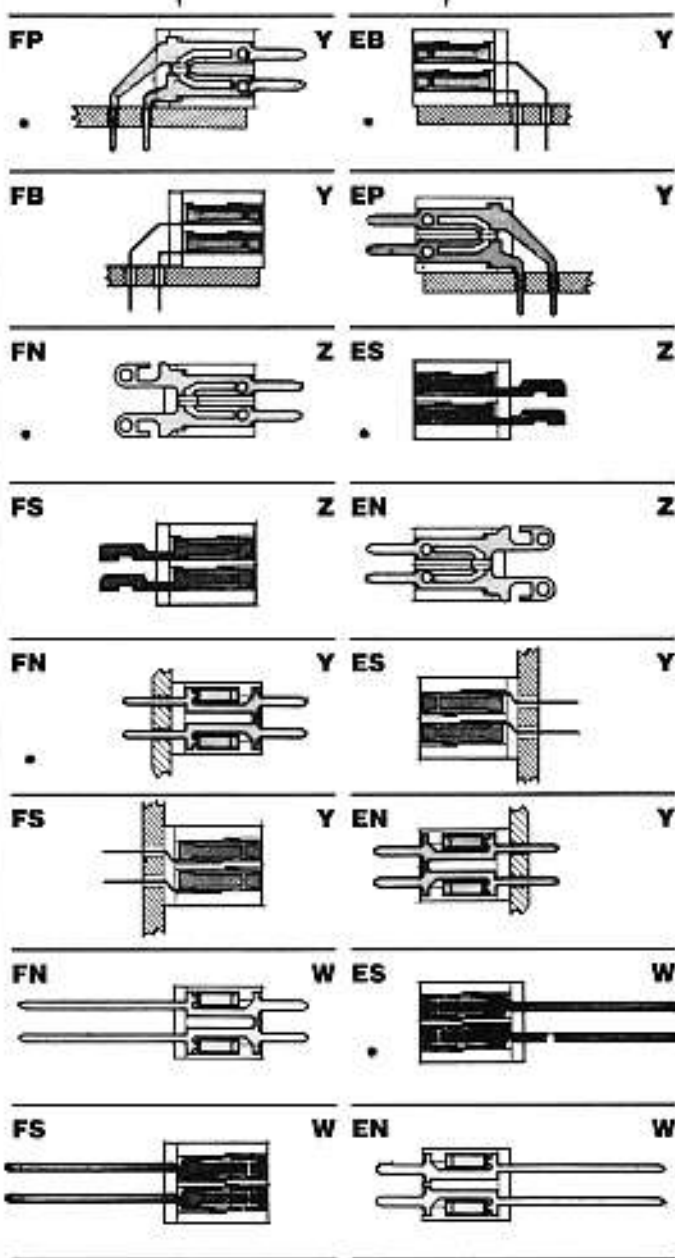
DENOMINATIONS

PLUGS

The existing connector has a plug marking

SOCKETS

The marking of the mating connector becomes



The marking of the mating connector becomes

The existing connector has a socket marking

* The connectors with a part number identified with an asterisk are only manufactured with six cavities for special contact terminations (see marking particularities page 29).

LOW FREQUENCY TERMINATIONS

STANDARD TERMINATIONS

GENDER TYPE	MALE	FEMALE	GENDER TYPE	
PY		<p>Male and female contacts with tails at 90° direct mounting on to p.c.b. Suitable for individual or flow soldering. Removable from the rear = 1</p>		BY
NZ		<p>Male and female contacts with solder tails suitable for wire dia. 1 mm max. (0.78 mm²) Removable from the rear = 1</p>		SZ
NW		<p>Male and female contacts with 0.6 x 0.6 mm (0.025") square miniwrap tails suitable for up to 3 wraps of 30 or 28 a.w.g. wire. Removable from the front = 0</p>		SW
NS2		<p>Crimp contacts for a.w.g. 22-26. Terminations protected by a casing bonded to the moulding. Removable from the rear = 1 Crimping tools (p. 47) M22520 2 01 HE 8 -20051 Positioner ATI B 08</p>		SS1
NY		<p>Male and female contacts with p.c. straight tails for direct mounting on to p.c.b. Suitable for individual or flow soldering. Standard (Ø 0.75 mm min.) drilling. Centered guide. Removable from the front = 0</p>		SY

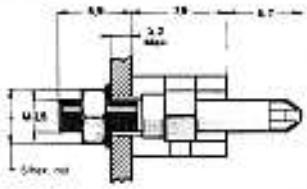
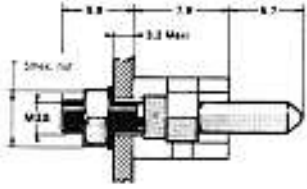
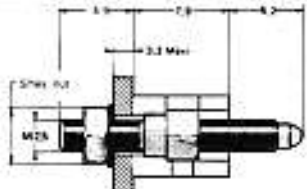
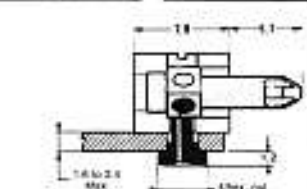
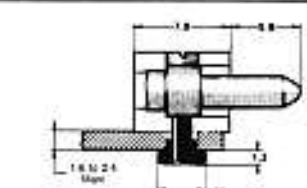
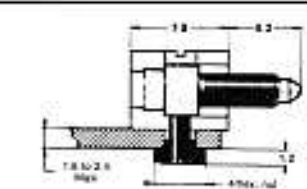
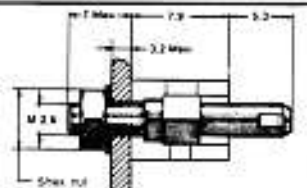
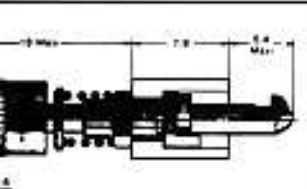
NON-STANDARD TERMINATIONS

NM		<p>Crimp type male contact for wire 22-26 a.w.g. Use the crimping tool HE 8-20051 (p. 47) Removable from the rear = 1</p>	
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Example to order contact separately : NW.

MALE GUIDES

stainless steel *

END FITTINGS		CENTRAL FITTINGS	
317		For mother board or chassis Rigid rear mounting with nut 6 polarising positions Mate with female guides 406, 412 or 426	313
318		For mother board or chassis Rigid rear mounting with nut Without coding Mate with female guides 406, 412 or 426	313
319		Threaded guide for mother board or chassis Rigid rear mounting with nut Without coding Mate with female guide 413 only	313
301		For daughter board Rigid side mounting with nut 6 polarising positions Mate with female guides 406, 412 or 426	302
302		For daughter board Rigid side mounting with nut Without coding Mate with female guides 406, 412 or 426	302
303		Threaded guide for daughter board Rigid side mounting with nut Without coding Mate with female guide 413 only	302
325		For mother board or chassis Rigid rear mounting with nut 6 polarising positions lockable Mate with female guides 421, 424 only	313
327		For daughter board 6 polarising positions with 1/4 of a turn Mate with female guides 422, 425 only	313

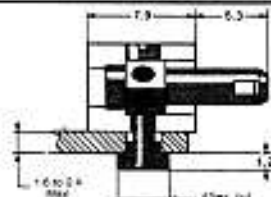
* Guides in Ni brass : change the 3.. by 1.. Example : 301 stainless steel becomes 101 (Ni brass).

MALE GUIDES

stainless steel *

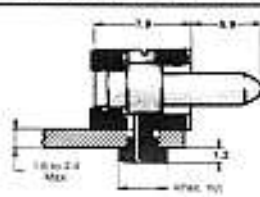
END FITTINGS**CENTRAL FITTINGS**

324

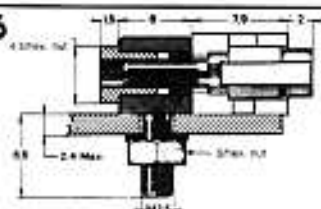


For daughter board
Rigid side mounting with nut
6 polarising positions lockable
Mate with female guides 421, 424 only

302

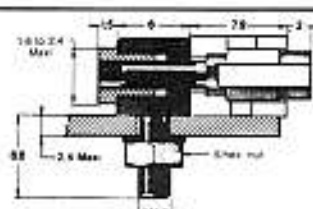
**FEMALES GUIDES**6 polarising positions
stainless steel *

406

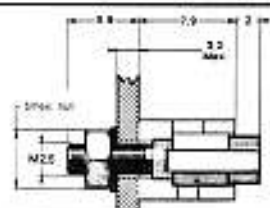


For daughter board
Rigid side mounting with nut
6 polarising positions
Mate with male guides 301, 302, 314,
315, 317 or 318

406

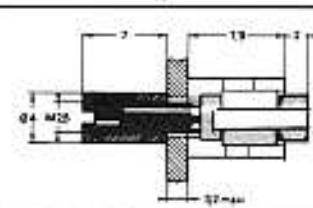


412

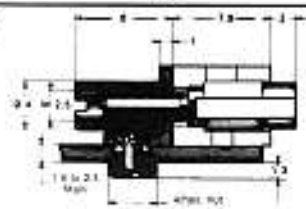


For mother board or chassis
Rigid rear mounting with nut
6 polarising positions
Mate with male guides 301, 302, 314,
315, 317 or 318

429

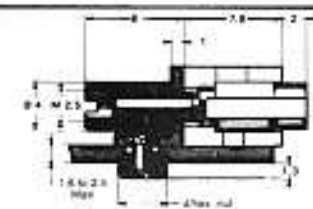


408

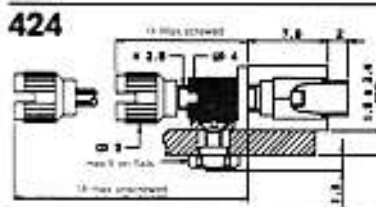


For daughter board
Rigid side mounting
6 polarising positions
Mate with male guides 301, 302, 317
or 318

408

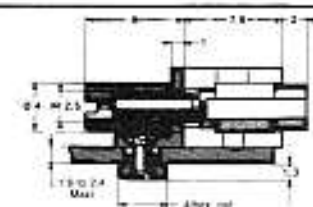


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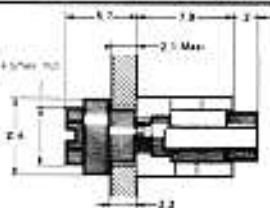


For daughter board
Rigid side mounting
6 polarising positions lockable
Mate with male guides 324 or 325

408

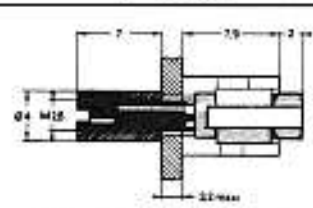


426



For chassis
Floating rear mounting with nut
6 polarising positions
Mate with male guides 301, 302, 317
or 318

429



On request : Guide 425 - For daughter board, rigid side mounting, 6 polarising positions,
with : 1/4 of a turn with male guide 327 only.

* Guides in Ni brass : change the 4.. by 2.. Example : 401 stainless steel becomes 201 (Ni brass).

FEMALE GUIDES

stainless steel *

END FITTINGS		CENTRAL FITTINGS	
421		<p>For mother board or chassis Rigid rear mounting with nut lockable 6 polarising positions Mate with male guides 324 or 325 only</p>	429
422		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions, with 1/4 of a turn Mate with male guide 327 only</p>	429
413		<p>Extractor nut for chassis or cable Floating rear mounting with nut Without coding Mate with male guides 303 or 319</p>	429
419		<p>Extractor nut for cable Split clip mounting Without coding Mate with male guides 303 or 313</p>	429

GUIDES FOR COVER

411		<p>For daughter board Rigid side mounting with nut 6 polarising positions + lockable Mate with cover E 891 C series</p> <p style="text-align: right;">(p. 44)</p>	
410		<p>For mother board or chassis Rigid rear mounting with nut 6 polarising positions + lockable Mate with cover E 891 C series</p> <p style="text-align: right;">(p. 44)</p>	

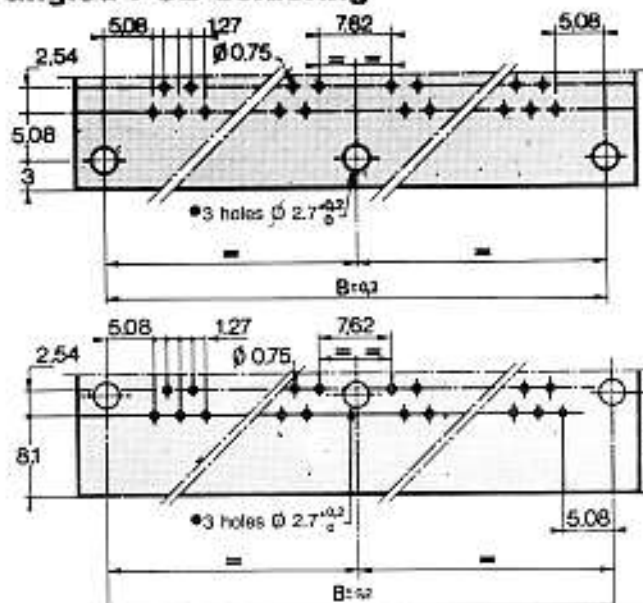
* Guides in Ni brass : change the 4.. by 2.. Example : 401 stainless steel becomes 201 (Ni brass).

MOUNTING DETAILS

ALL MOULDINGS EXCEPT 84 + 10

Mounting details for PCB (view from mating side)

Connector fitted with PY, BY contacts Coaxial for angled PCB soldering

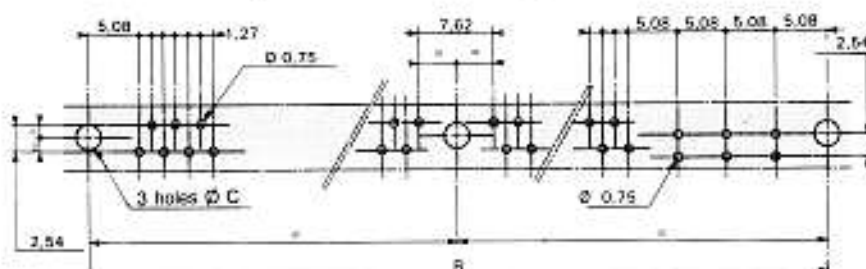


View from the connector side
Guides 301, 302, 303
Centre guide 302

Guides 406, 408, 411, 424
Centre guide 408

X { For 408, 424 = 10.35
For 406, 411 = 10

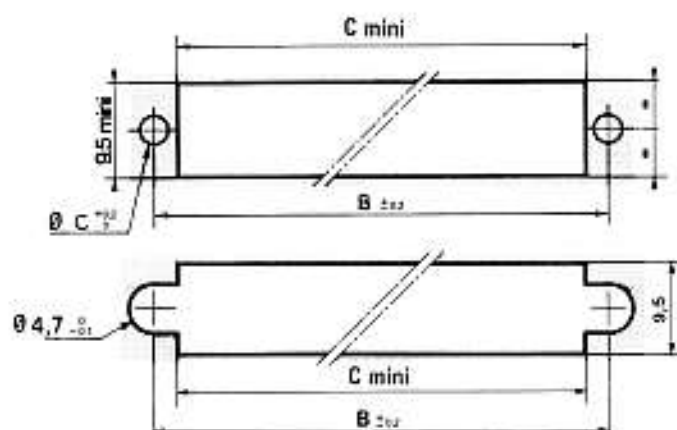
Connector fitted with NY, SY contacts Coaxial for straight PCB soldering



Guides 317, 318, 319, 325, 412,
421, 422
Drilling C : $\varnothing 2.7$
Guide 410, drilling C : $\varnothing 3.2$
Centre guides 313, 429

Panel cut-out

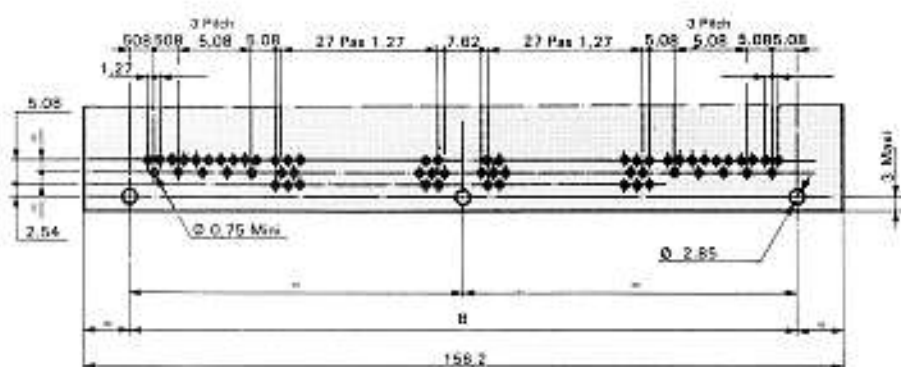
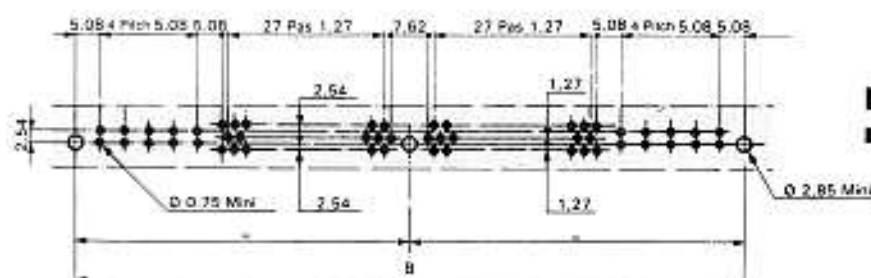
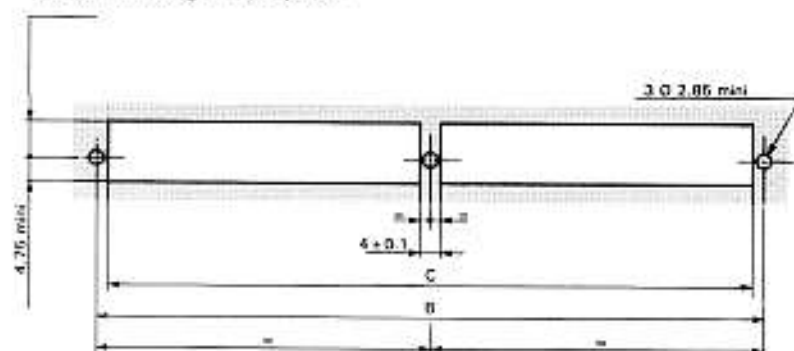
Connector fitted with NS, NM, NW, SW, NZ, SZ Coaxial for cable soldering



Dimensions B and C, see table
p. 36

Rigid mounting
Guides 317, 318, 319, 325,
412, 421, 422
Drilling C : $\varnothing 2.7$
Guide 410, drilling C : $\varnothing 3.2$

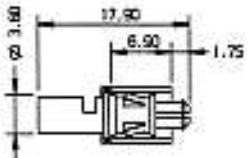
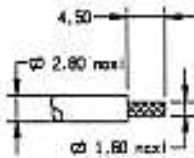
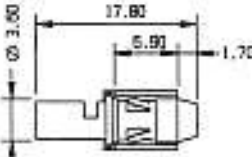
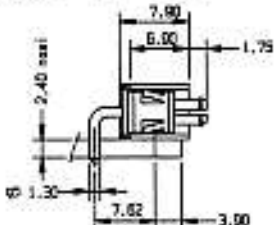
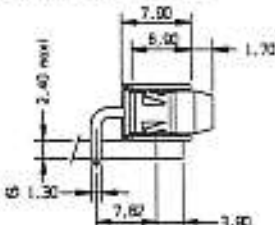
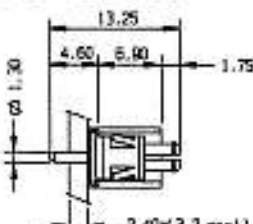
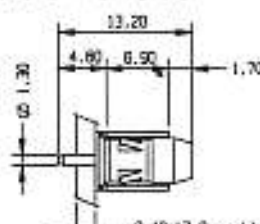
Float mounting
Guides 403, 413, 426

MOUNTING DETAILS**MOULDING 84 + 10**Mounting details for **P.C.B.** (view from mating side)**Drilling details for daughter board****Drilling details for mother board****Panel cut-out**7.3 mini for 84 + 10 moulding only
other mouldings : see p. 35**Thickness 3.4 maxi.**

CONTACTS + COAXIAL	5 + 3	17 + 3 5 + 6 0 + 7 0 + 8	29 + 3 17 + 6	41 + 3 29 + 6	53 + 3 41 + 6	60 + 3 48 + 6	72 + 3 60 + 6	84 + 3 72 + 6 56 + 10	84 + 10
B(mm) ± 0.1	30.48	45.72	60.96	76.20	91.44	106.68	121.92	137.16	137.16
C(mm) ± 0.1	25.90	41.10	56.40	71.60	86.90	102.10	117.30	132.60	132.60

HIGH POWER TERMINATIONS

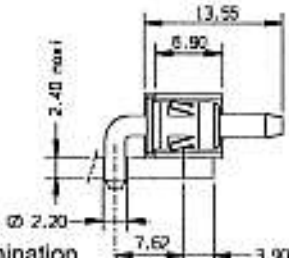
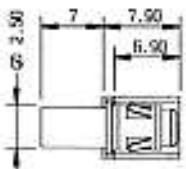
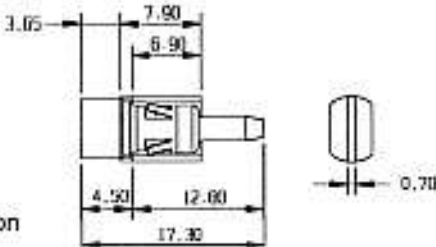
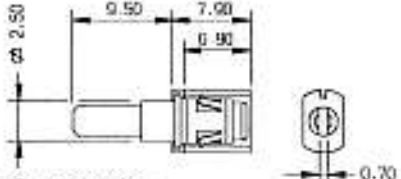
KMX 3 series specification NFC 93569 - 10 A under 30 Vdc - 15 A peak

MALE		FEMALE	
KMX 3 - M 121 	Cable preparation  Solder termination.	KMX 3 - F 121 	
KMX 3 - M 132 	Male and female power contacts with 90° p.c.b. terminations.	KMX 3 - F 132 	
KMX 3 - M 141 	Male and female power contacts with straight p.c.b. terminations.	KMX 3 - F 141 	

* Termination lengths according to CEI recommendations.

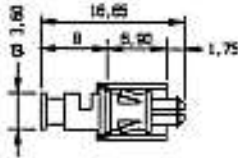
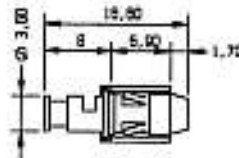
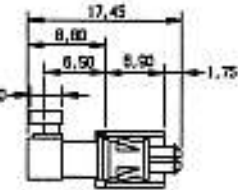
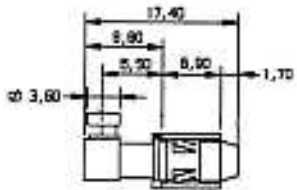
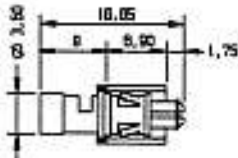
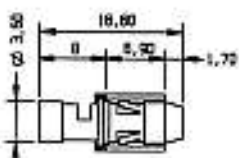
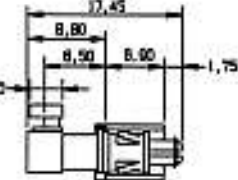
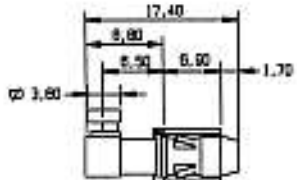
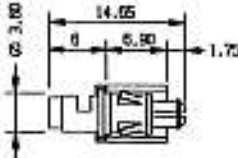
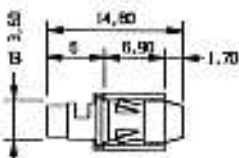
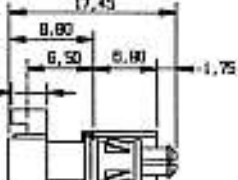
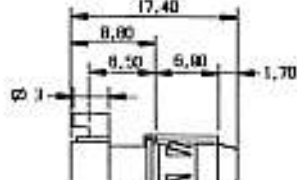
SPECIAL HIGH POWER TERMINATIONS

20 A under 30 Vdc - 25 A peak

MALE		FEMALE	
M 134  Right angle termination	F 124  Soldering or crimping termination	Crimping tool T and B MS 3191 A. For wire AWG 12 to 14 positioner G12-G14. For wire AWG 16 positioner G16.	
M 164  Straight termination for bus bar	F 164  Mother board termination or bus bar		

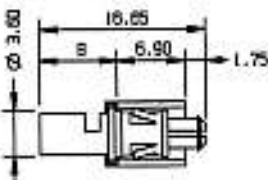
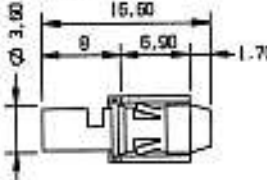
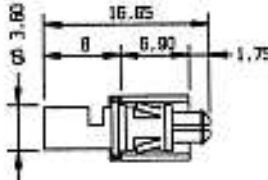
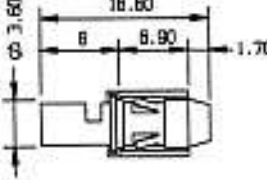
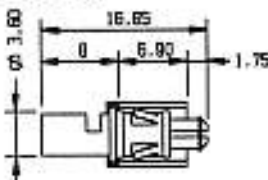
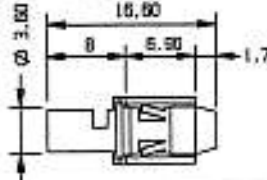
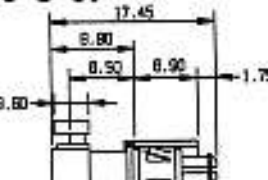
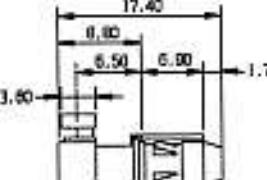
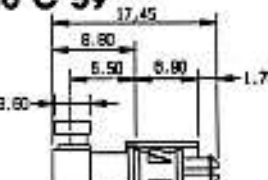
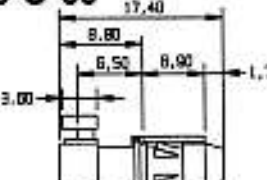
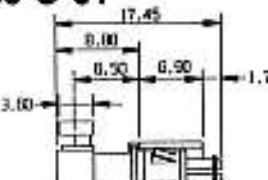
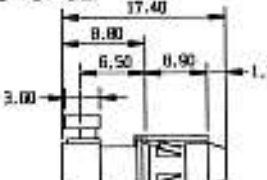
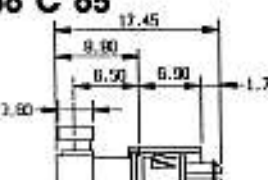
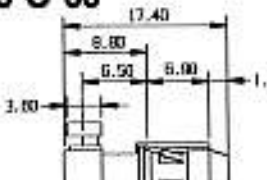
HIGH FREQUENCY TERMINATIONS

KMX 3 SERIES SPECIFICATION NFC 93569 FOR STANDARD CABLES

MALE		FEMALE
<p>KMX 3 - M 081</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for flexible cable \varnothing 1.9 max. Ref. KX 21 A (RG 178 B/U or RG 196).</p>	<p>KMX 3 - F 081</p> 
<p>KMX 3 - M 092</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for flexible cable \varnothing 1.9 max. Ref. KX 21 A (RG 178 B/U or RG 196). Usable with mother board, thickness 3.2 mm max.</p>	<p>KMX 3 - F 092</p> 
<p>KMX 3 - M 101</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for flexible cable \varnothing 2.5 max. Ref. KX 22 A (RG 316).</p>	<p>KMX 3 - F 101</p> 
<p>KMX 3 - M 112</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for flexible cable \varnothing 2.5 max. Ref. KX 22 A (RG 316). Usable with mother board thickness 3.2 mm max.</p>	<p>KMX 3 - F 112</p> 
<p>KMX 3 - M 131</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for semi-rigid cable \varnothing 2.2 max. Ref. KS 1 (RG 405 - UT 85).</p>	<p>KMX 3 - F 131</p> 
<p>KMX 3 - M 142</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for semi-rigid cable \varnothing 2.2 max. Ref. KS 1 (RG 405 - UT 85). Usable with mother board thickness 3.2 mm max.</p>	<p>KMX 3 - F 142</p> 

HIGH FREQUENCY TERMINATIONS

KMX 3 SERIES SPECIFICATION NFC 93569 FOR NON-STANDARD CABLES

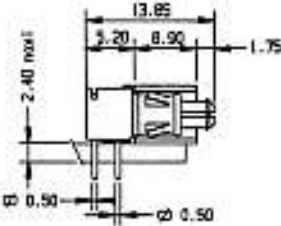
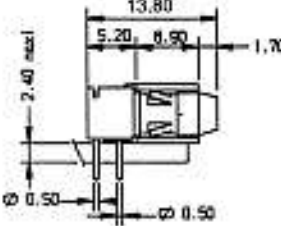
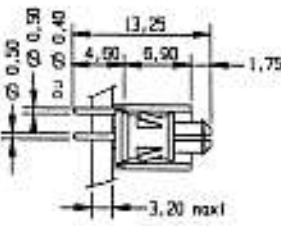
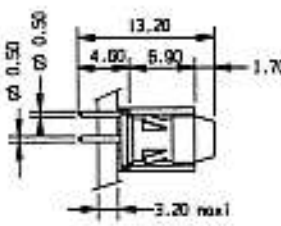
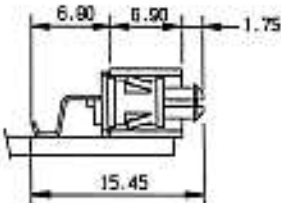
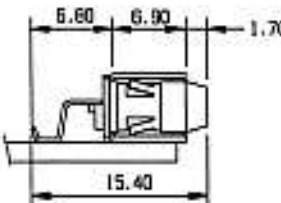
MALE		FEMALE
<p>E 756 C 09</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for flexible cable \varnothing 2.5 max. Ref. Microdot 250-3908.</p>	<p>E 756 C 10</p> 
<p>E 756 C 11</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for flexible cable \varnothing 3.5 max. Ref. Microdot 250-3937</p>	<p>E 756 C 12</p> 
<p>E 756 C 15</p> 	<p>Male and female contacts for chassis or free connector assembly. Suitable for flexible extended dielectric cable \varnothing 2.2 max. Ref. Axon P 812817 Ref. Alpen A 22 DT Ref. Gore CSS 1022 K*</p>	<p>E 756 C 16</p> 
<p>E 756 C 57</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for flexible cable \varnothing 2.8. Ref. KX 22 A « double screen » Usable with mother board thickness 3.2 mm max.</p>	<p>E 756 C 58</p> 
<p>E 756 C 59</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for flexible cable \varnothing 2.5. Ref. Microdot 250-3908. Usable with mother board thickness 3.2 mm max.</p>	<p>E 756 C 60</p> 
<p>E 756 C 61</p> 	<p>Male and female contacts with 90° cable entry for chassis or free connector assembly. Suitable for flexible cable \varnothing 3.25. Ref. Microdot 250-3937. Usable with mother board thickness 3.2 mm max.</p>	<p>E 756 C 62</p> 
<p>E 756 C 65</p> 	<p>Male and female contacts with 90° cable entry for free connector assembly. Suitable for flexible extended dielectric cable \varnothing 2.2 max. Ref. Axon P 812817 Ref. Alpen A 22 DT Ref. Gore CSS 1022 K* Usable with mother board thickness 3.2 mm max.</p>	<p>E 756 C 66</p> 

* For automatic stripping.

HIGH FREQUENCY TERMINATIONS

KMX 3 SERIES SPECIFICATION NFC 93569 FOR P.C.B.

MALE**FEMALE**

<p>KMX 3 - M 032</p> 	<p>Male and female contacts with 90° tail for direct mounting on to p.c.b. (Cut one of the two ground tails for mounting on to p.c.b. per mounting details p. 35)</p>	<p>KMX 3 - F 032</p> 
<p>KMX 3 - M 041</p> 	<p>Male and female contacts with straight p.c. tails for direct mounting on to p.c.b.</p>	<p>KMX 3 - F 041</p> 
<p>KMX 3 - M 172</p> 	<p>Male and female contacts with SMT termination.</p>	<p>KMX 3 - F 172</p> 

SPECIAL TERMINATIONS IDENTIFICATION :

Use the relevant reference indicated by the drawings.

eg. : KMX 3 - M 101

E 756 C 16

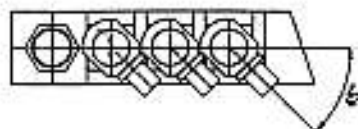
F 124

etc...

NOTES : 1 - Cables preparation dimensions are different from previous models (october 86 issue).

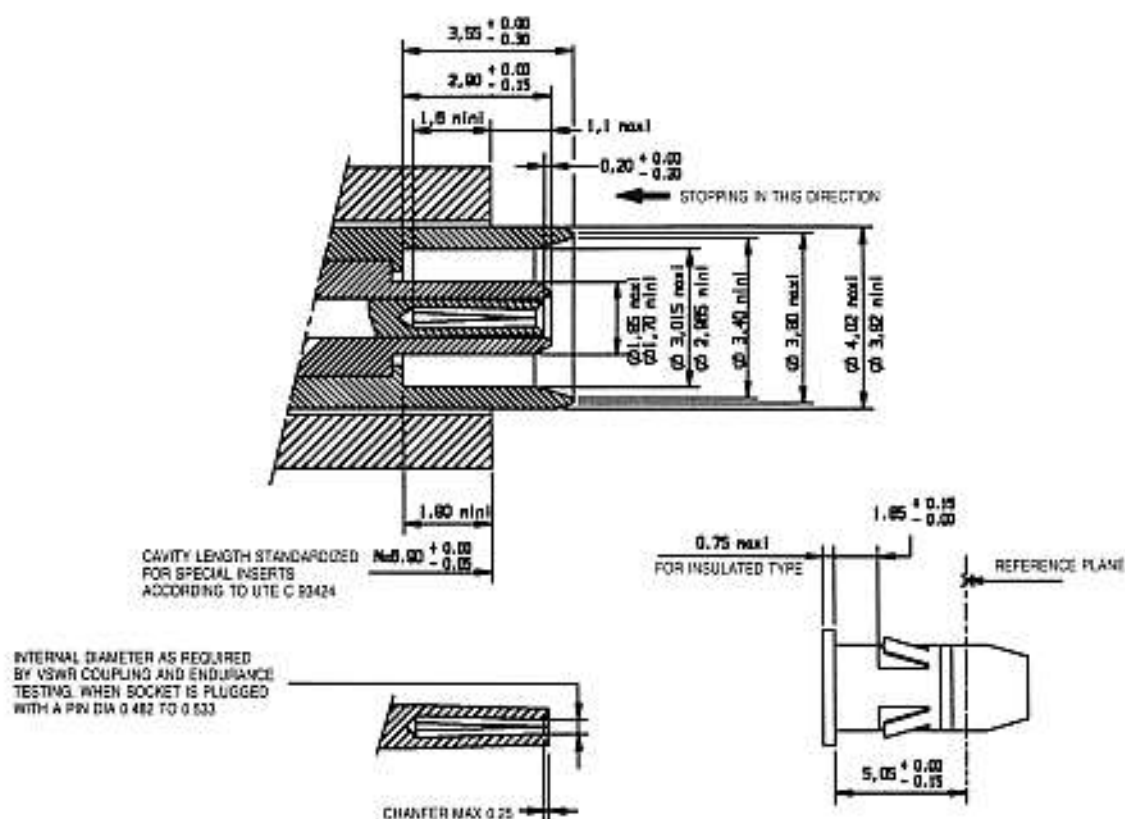
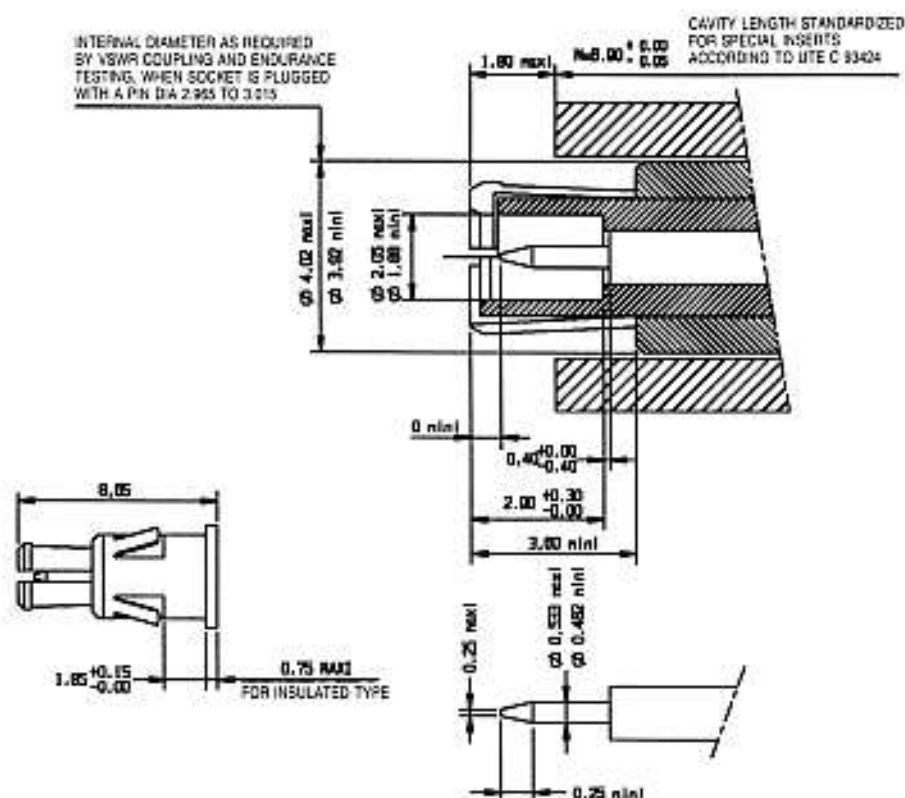
Consult our product evolution data sheet N° RF/005/A.

2 - 45 degrees angled coaxial terminations are available : consult factory.



INTERCHANGEABILITY

SPECIFICATION NFC 93 569 - KMX 3

FEMALE COAXIAL INSERT**MALE COAXIAL INSERT**

MOUNTING DETAILS FOR COAXIAL INSERTS

MOUNTING DETAILS FOR COAXIAL INSERTS SERIES KMX 3 RIGHT ANGLE TERMINATIONS

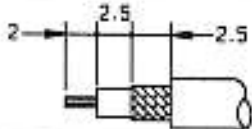

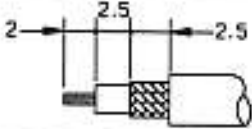
For information, see diagram IV.

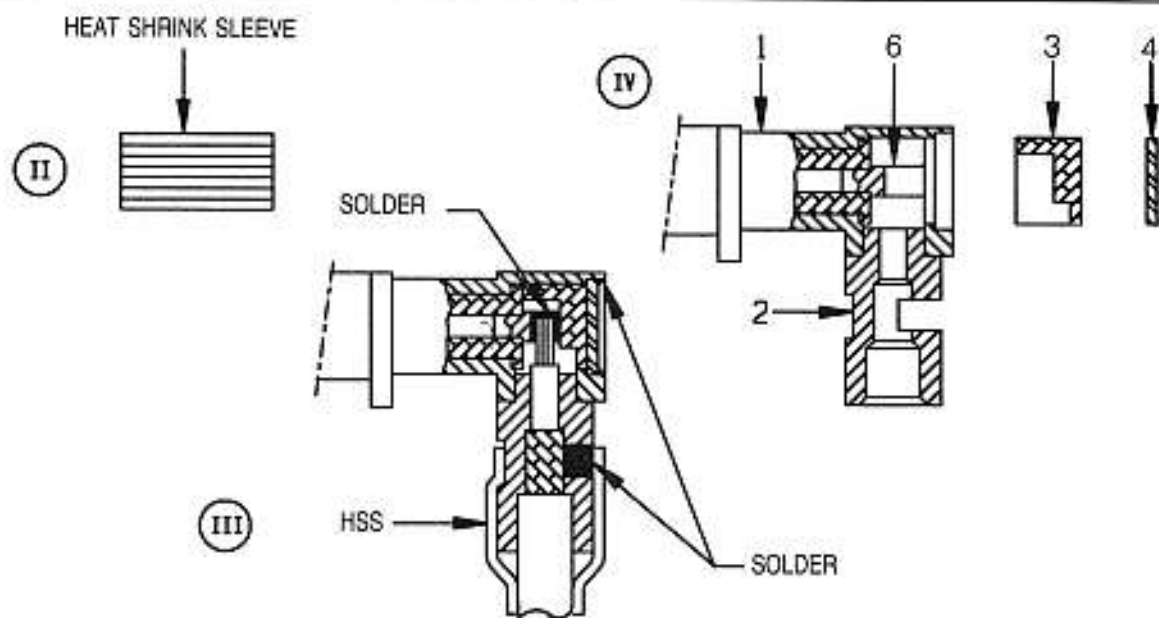
- Strip the cable according to the connector style and take care not to damage the braid and cable core (diagram I).
- Fit the heat shrink sleeve* HSS (diagram II).
- Tin the cable core.
- Push the cable into the body 2 until it is against the shoulder of the body (diagram III).
- Solder the cable core to the inner contact 5 (diagram III).
- Solder the screen** of the cable to the connector body 2 (diagram III).
- Push insulator pad 3 and connector cap 4 into the back of the connector body 1 (diagram III).
- Solder the connector cap to the connector body 1 (diagram III).
- Shrink sleeve over connector and cable (diagram III).

* Except for semi-rigid cable.

** For semi-rigid cable : solder the screen. (Sn Pb 60/40).

STRIPPING ①

<p>KMX 3 - M 092 and F 092 KMX 3 - M 112 and F 112</p>	
<p>KMX 3 - M 142 and F 142</p>	
<p>KMX 3 - M 112 and F 112 E 756 C 57 - C 58 - C 59 C 60 - C 61 - C 62 - C 65 - C 66</p>	



MOUNTING DETAILS FOR COAXIAL INSERTS

MOUNTING DETAILS FOR COAXIAL INSERTS SERIES KMX 3 STRAIGHT TERMINATIONS

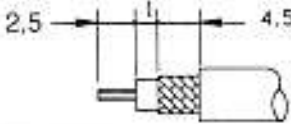
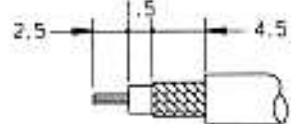
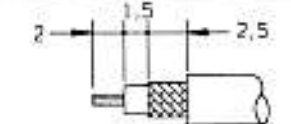
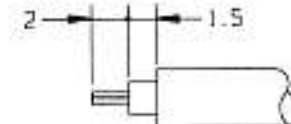
For information, see diagram IV.

- Strip the cable according to the connector style and take care not to damage the braid and cable core (diagram I).
- Fit the heat shrink sleeve* HSS (diagram II).
- Tin the cable core.
- Fit the sleeve 4 and the insulating washer 3 (diagram III).
- Push the cable into the inner contact 2 and solder, the solder should not contaminate the outside O of the inner contact 2 (diagram III).
- Push the cable into the back of the connector body 1 (diagram IV) until it is against the shoulder of the body.
- Solder the screen of the cable** and the sleeve to the connector body 1 (diagram V).
- Shrink sleeve* over connector and cable.

* Except for semi-rigid cable.

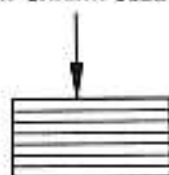
** For semi-rigid cable : solder the screen. (Sn Pb 60/40).

STRIPPING (I)

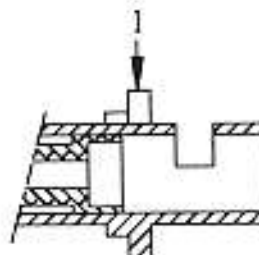
<p>KMX 3 - M 101 and F 101 E 756 C 15 AND C 16</p>	
<p>E 756 C 11 and C 12</p>	
<p>KMX 3 - M 081 and F 081 E 756 C 09 et C 10</p>	
<p>KMX 3 - M 131 and F 131</p>	

HEAT SHRINK SLEEVE

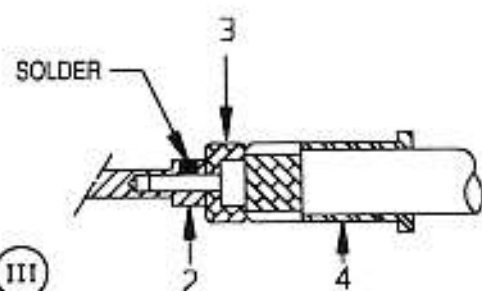
(II)



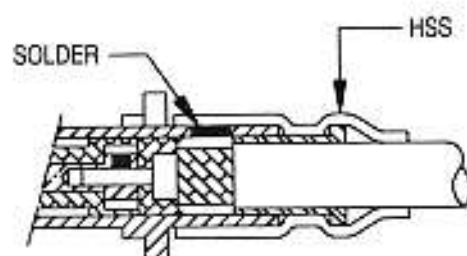
(IV)



(III)



(V)



ACCESSORIES

COVERS E 891 C SERIE

Covers E 891 C serie are intended for use with HE 801 - 804 - 807 connectors having the same environmental characteristics, in two rows from 17 to 65 contacts.

IDENTIFICATION :

ex : **E 891 C****17****SAT****F****.**

Cover

Size (see table p. 45)

Entry

SAT = Top entry for bundle or flat cable

SL = Side entry

SHROUD

F = No shroud

M = Full shroud

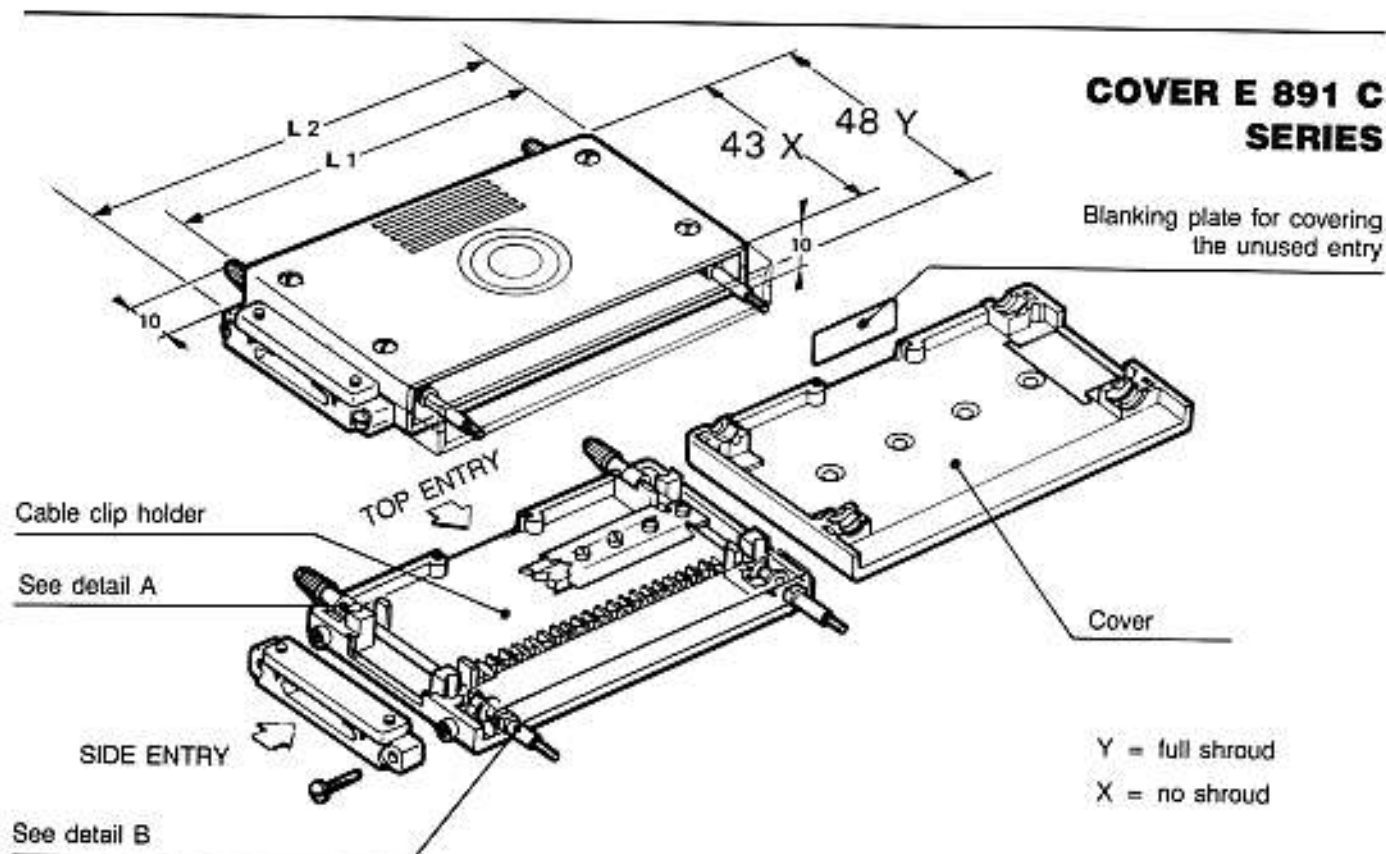
MF = Half shroud

OPTION

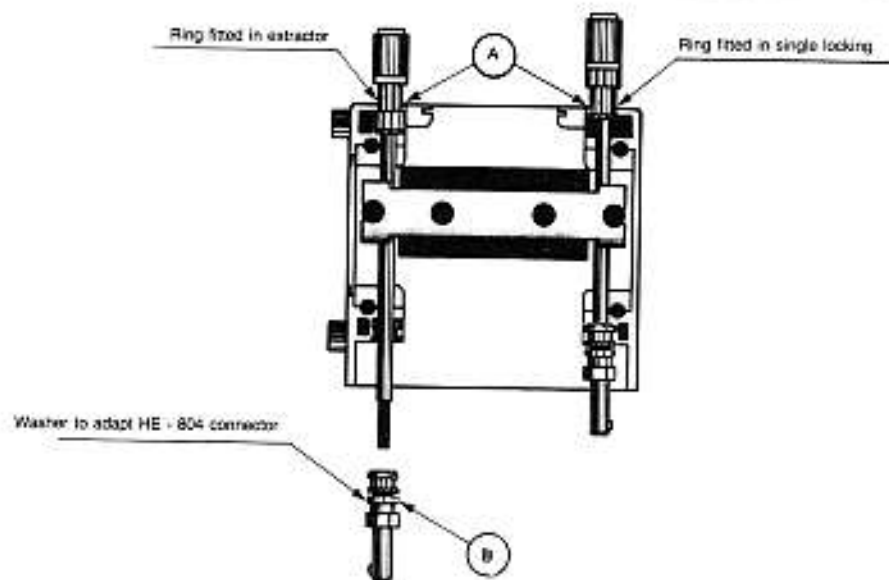
JPN = Cover for extender cable with two female guides

NOTE : E 891 C covers are delivered (except JPN option) with a set of two male jack screws with 6 polarizing positions. Mating female guides to be ordered with fixed connectors (see guides for covers p. 14, 24 and 34).

ACCESSORIES



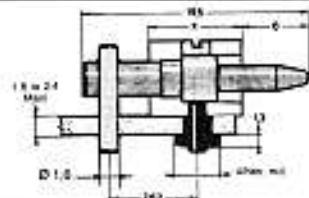
HE 801 - 804 sizes	17	29	33	41	53	65
HE 807 (recall)	$5 + 3$	$17 + 3$ $5 + 6$ $0 + 7 / 0 + 8$		$29 + 3$ $17 + 6$	$41 + 3$ $29 + 6$	$53 + 3$ $41 + 6$
Size (top entry) L1	45.5	61	66	76	91.5	106.6
Size (side entry) L2	52.5	68	73	83	98.5	113.5



ACCESSORIES

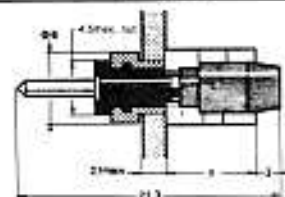
SPECIAL GUIDES

724



Ground jack for daughter board
Rigid side mounting with nut
Without coding
Mate with female guide 833 only
Size X (see chart)

833



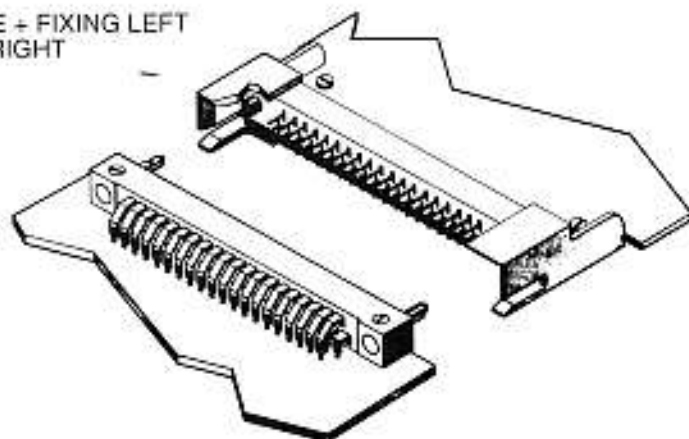
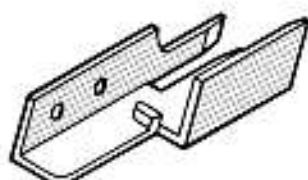
Ground jack for chassis
Rear floating mounting with nut
Without coding
Mate with male guide 724 only
Size X (see chart)

Series	801	804	807
Size X	7.9	6.9	7.9

« V » GUIDE COMPLETE KIT FOR CARD-EXTENDER

GUIDE + FIXING LEFT AND RIGHT

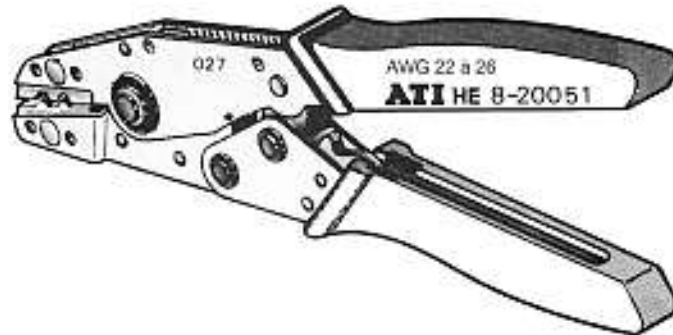
Reference 841 for HE 801 - 804 & 807



PROTECTED SHROUD 27507-3

For 96 ways male contacts
Moulding size 6.9
Other types : consult factory

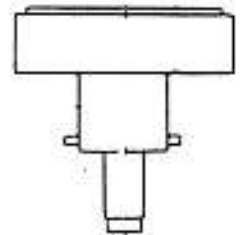


TOOLS**CRIMP TOOL**

For male contacts
Reference : HE 8 - 20051

CRIMP TOOL

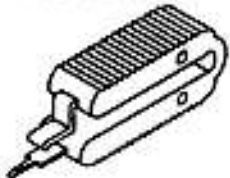
For female contacts
Reference : M22520 / 2-01



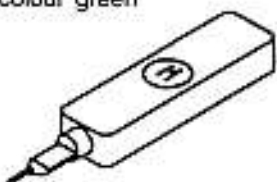
POSITIONNER
Reference : ATI-B-08

CONTACTS EXTRACTION TOOLS

Contacts extraction tools
for male contacts

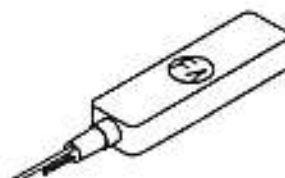


From the front ref. 27333 MA
colour green



From the rear ref. 20802 M
colour red

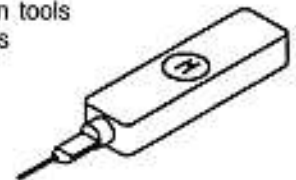
Contacts extraction tools
for female contacts



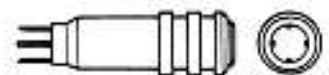
From the front ref. 27 329 FA
colour white



From the rear ref. 20674 F
colour black



New BY & S2 with non-square cavities \oplus ,
from the rear ref. 20674 M
colour blue.



Removal tool for
coaxial and high power
contacts ref. 20862.