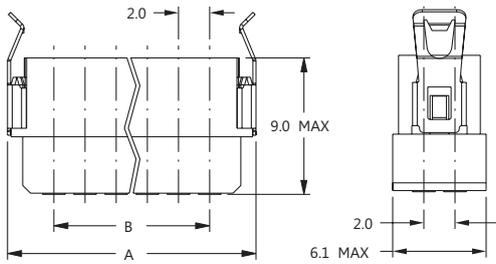
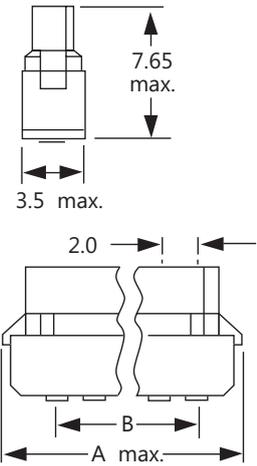


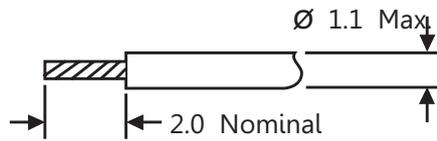
DIMENSIONS / MALE



DIMENSIONS / FEMALE



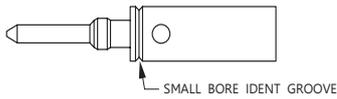
WIRE STRIPPING DETAILS



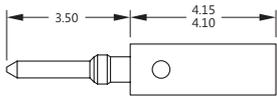
Crimp tool **M22520/2-01**
 Positioner **MP6818**
 Contact insertion/removal tool **220S03**

CONTACT / MALE

C - Small Bore (24-28 AWG) : Code B741 C21

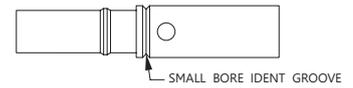


D - Large Bore (22 AWG) : Code B741 C22

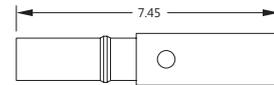


CONTACT / FEMALE

C - Small Bore (24-28 AWG) : Code B741 C01



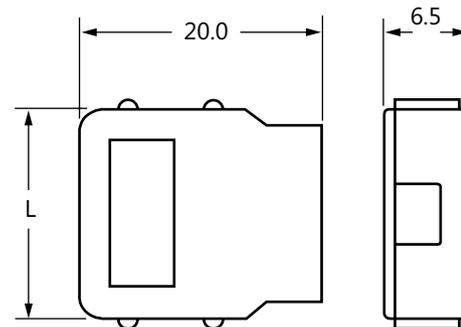
D - Large Bore (22 AWG) : Code B741 C03



HOODS / (for 212 connector only)

Available from 10 to 34 contacts.

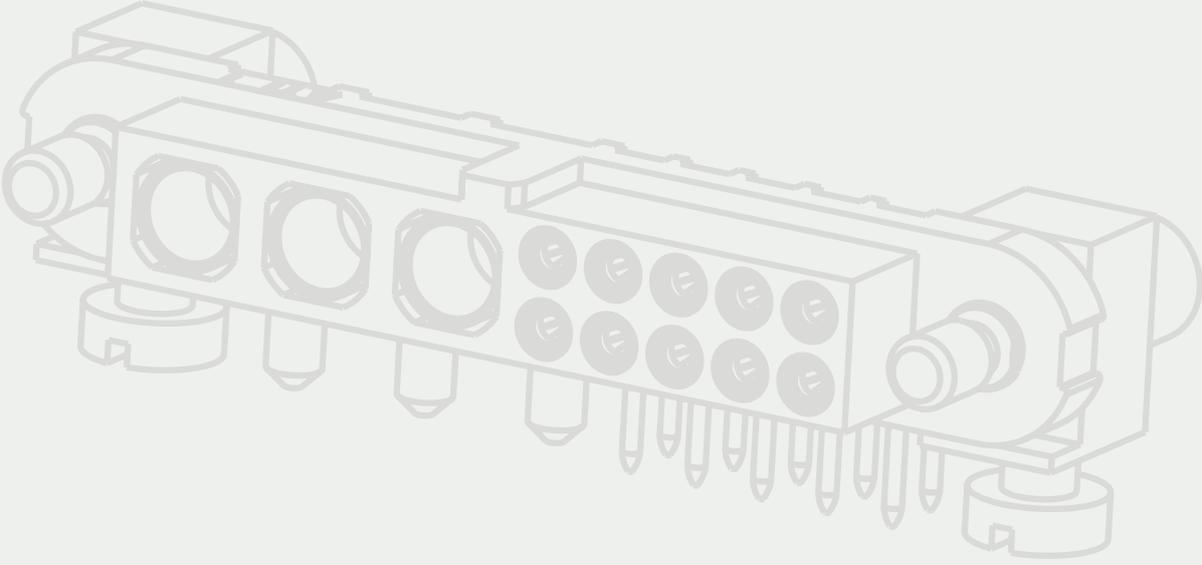
For use with female crimp connectors and unlatched crimp male connectors.



L = Number of LF contacts + 7



FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)



220 SERIES

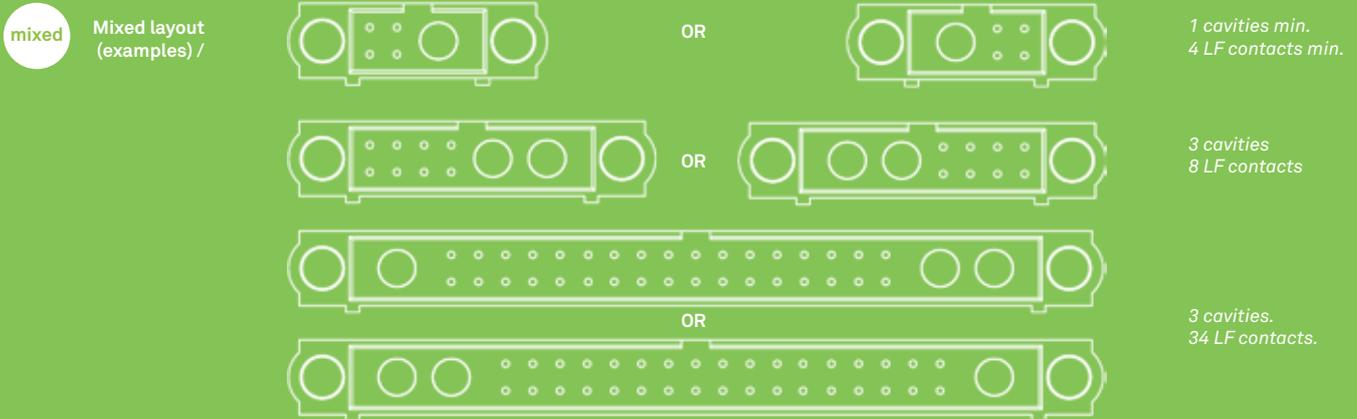
INTRODUCTION

220 series extend the range of 210 series.

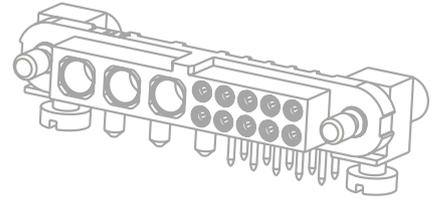
Designed with high performance materials, the connectors allow to mix different types of signals (LF, HF and power) and can be locked with jackscrews and used in severe mechanical and climatic environment.

male

female



220 SERIES



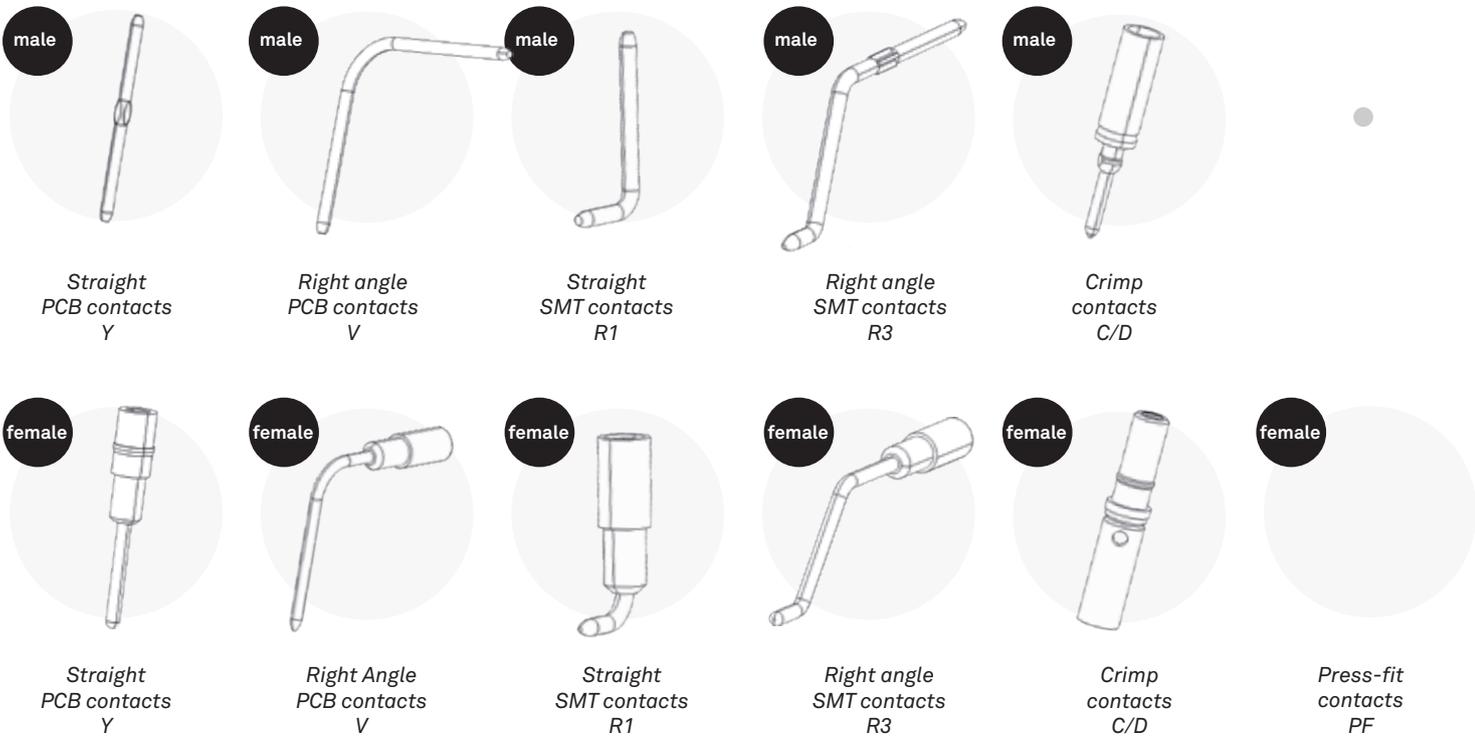
An Introduction to the 220 SERIES

This series of connectors has a large range of termination styles :

- PCB mounting (straight and right angle)
- Press-fit
- SMT
- Crimp contacts

Minimum stacking height is 8 mm between boards.

Terminations



Accessories and tooling



SPACING CONNECTOR / MALE & FEMALE

F M	STRAIGHT Y	RIGHT ANGLE V	STRAIGHT SMT R3/R9	RIGHT ANGLE SMT R1/R7	CRIMP C1/D1
STRAIGHT Y					
RIGHT ANGLE V					
STRAIGHT SMT R3/R9					
RIGHT ANGLE SMT R1/R7					
CRIMP C1/D1					

HOW TO ORDER / ASSEMBLED

220

SERIES CODE



GENDER



NUMBER OF LF CONTACT



LF CONTACT STYLE



GUIDE



NUMBER OF RF OR HIGH POWER CONTACTS



RF OR HP CONTACT 1



RF OR HP CONTACT 2 (AVAILABLE IF 2 DIFFERENT TYPES OF CONTACT ARE USED)

GLOSSARY / HOW TO ORDER

GENDER

F/Female
M/Male

NUMBER OF LF CONTACTS

04 to 50

GUIDES

- Complete list, see technical index (page 96).

LF CONTACT STYLE

- Y1-Y3/Straight on PCB
- V1-V3/Right angle on PCB
- Y5 to Y9/Straight on PCB
- V5 to V9/Right angle on PCB
- PF1/Press-fit
- PF2/Press-fit
- R1-R7 and R3-R9/SMT
- C1-D1/Crimp for wire

RoHS RULES (w/ lead) :

- No RoHS (with lead)
- RoHS (without lead)

NUMBER OF RF OR HIGH POWER CONTACTS

For RF/HP contacts only : 2 digits = number of cavities from 02 to 12

For mixed-layout : each digit = number of cavities on each side of the LF contacts (shown looking on mating face) :

- 1st digit (0 to 9) = right side for male, left side for female
- 2nd digit (0 to 9) = left side for male, right side for female

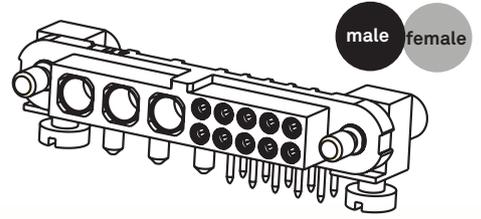
RF/HP CONTACT 1

Type of high frequency or high power contact

RF/HP CONTACT 2

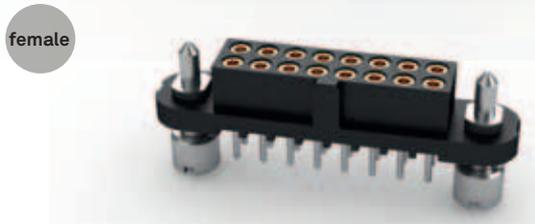
Available if a second type of contact is used

220 SERIES

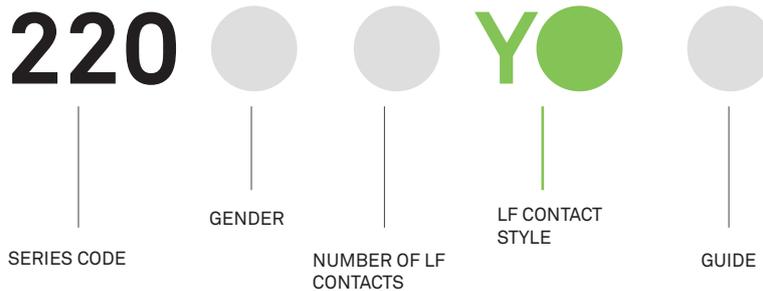


PCB Connectors with straight LF contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 3 types of plating



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE

- Y1/3.1mm Tails Gold + Tin/Lead
- Y3/4.6mm Tails Gold + Tin/Lead
- Y5/3.1mm Tails Gold
- Y6/4.6mm Tails Gold
- Y7/3.1mm Tails Gold + Tin
- Y8/5.5mm Tails Gold
- Y9/4.6mm Tails Gold + Tin

RoHS RULES (w/ lead) :

- No RoHS (with lead)
- RoHS (without lead)

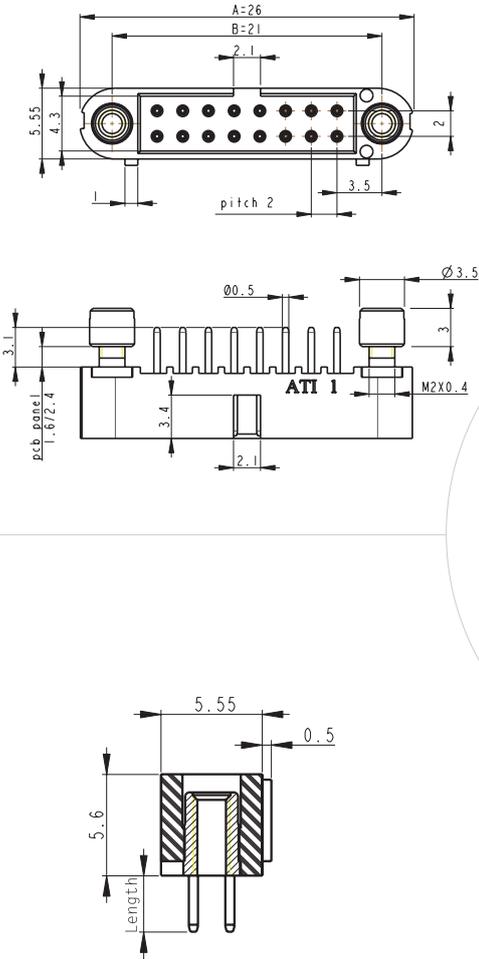
USUAL GUIDES FOR FEMALE CONTACTS

- B/3.3mm Jackscrew
- C/5.1mm Jackscrew
- H/With Hex. socket Jackscrew
- J/ AP/With Hex. slotted Jackscrew
- O/Without Jackscrews

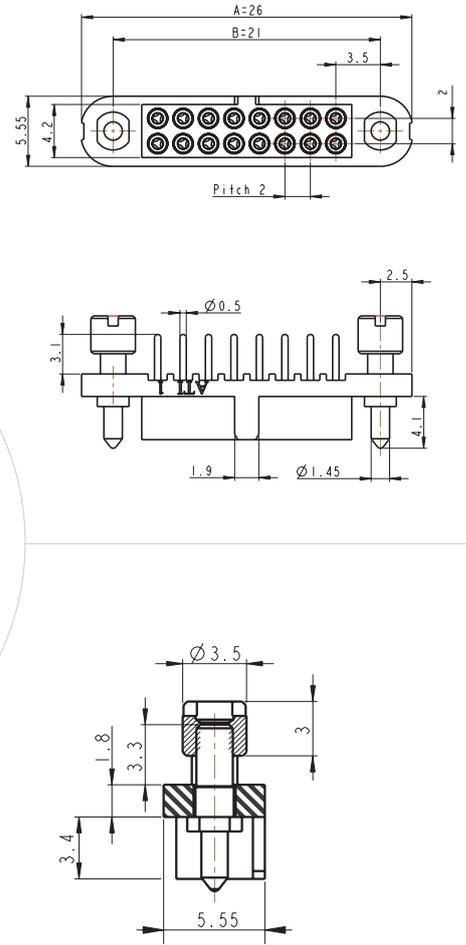
USUAL GUIDES FOR MALE CONTACTS

- P/3.5mm Jackscrew
- Q/5mm Jackscrew
- Y/Only lockable
- Z/ PZ/ QZ/ O/Without Jackscrews

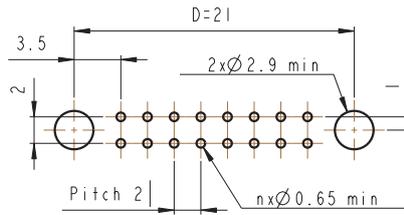
DIMENSIONS / MALE



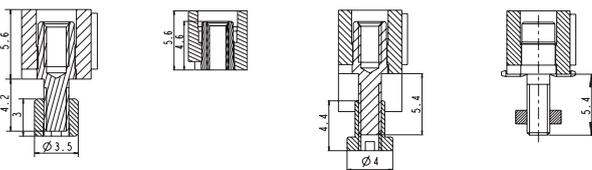
DIMENSIONS / FEMALE



PCB LAYOUT



USUAL GUIDES / For male connectors



Locking torque for P/Q/Y: 0.17 to 0.20 Nm

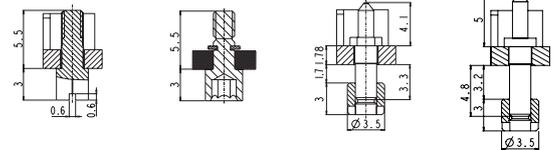
P/Q

Y

Z

PZ
QZ

USUAL GUIDES / For female connectors



Locking torque for AP/H: 0.20 Nm
AP/H: Holes in PCB = $\varnothing 3,5\text{mm}$

Locking torque for B/C/J: 0.17 to 0.20 Nm

AP

H

B/C

J

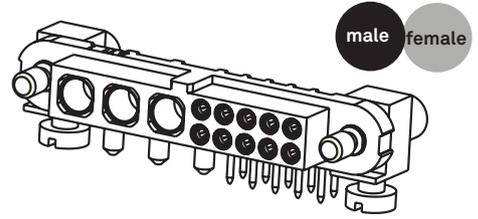


FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



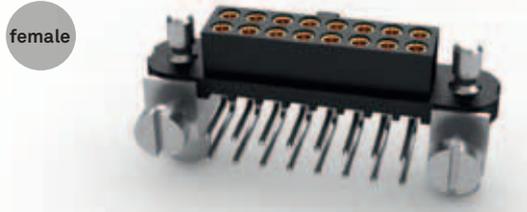
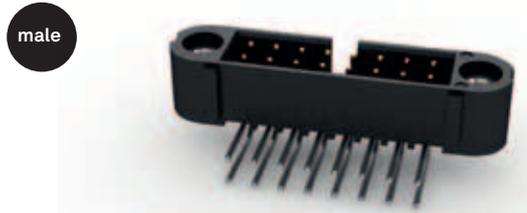
FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

220 SERIES

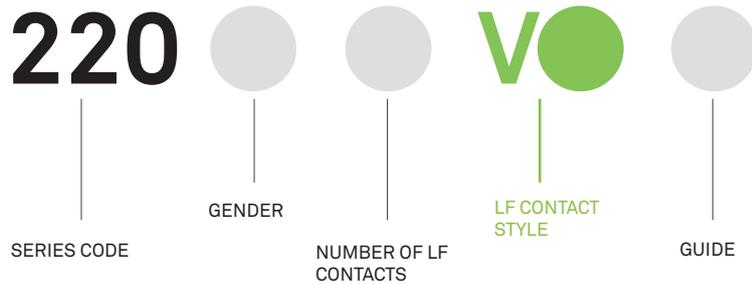


PCB Connectors with right angle LF contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 3 types of plating



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE

- V1/3.1mm Tails Gold + Tin/Lead
- V3/4.6mm Tails Gold + Tin/Lead
- V5/3.1mm Tails Gold
- V6/4.6mm Tails Gold
- V7/3.1mm Tails Gold + Tin
- V9/4.6mm Tails Gold + Tin

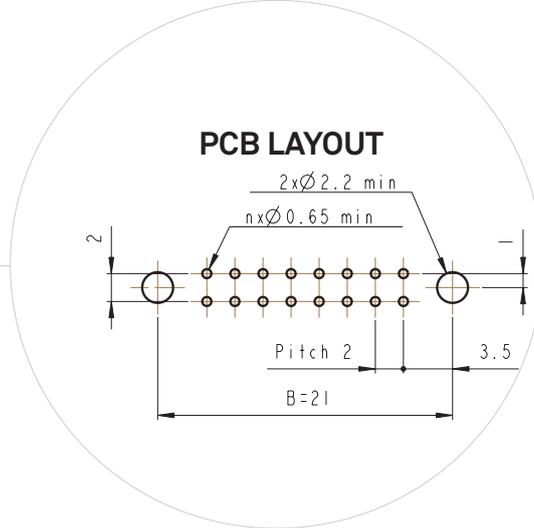
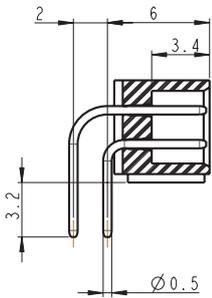
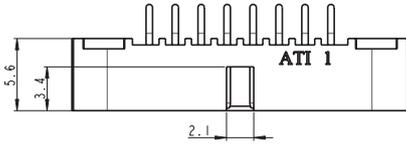
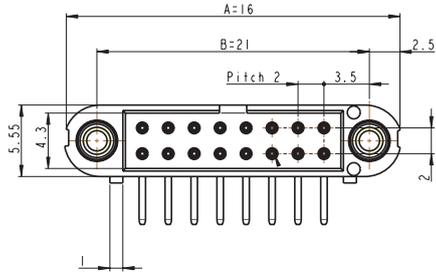
RoHS RULES (w/ lead) :

- No RoHS (with lead)
- RoHS (without lead)

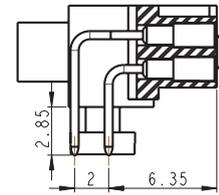
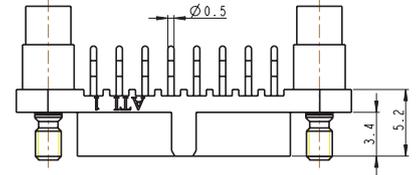
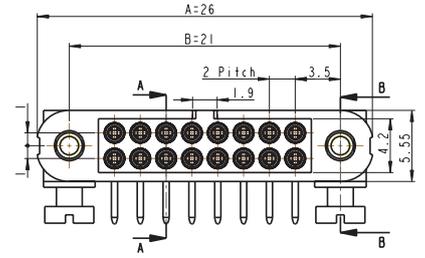
USUAL GUIDES FOR FEMALE CONTACTS
F/
GM/
GN/
0/Without Jackscrews

USUAL GUIDES FOR MALE CONTACTS
R/4mm Jackscrew
S/6mm Jackscrew
U/
W/
FM/
0/Without Jackscrews

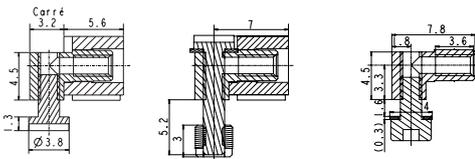
DIMENSIONS / MALE



DIMENSIONS / FEMALE



USUAL GUIDES / For male connectors



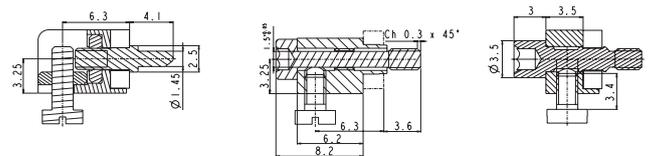
Locking torque for
R/S/U/W : 0.17 to 0.20 Nm

R/S

U

W

USUAL GUIDES / For female connectors



Locking torque for
F/FM/GM/GN : 0.17 to 0.20 Nm

F
FM

GM

GN

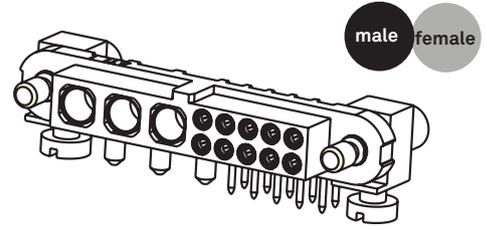


FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

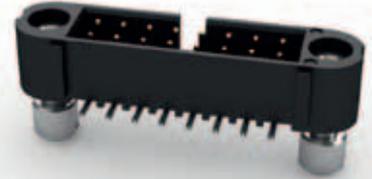
220 SERIES



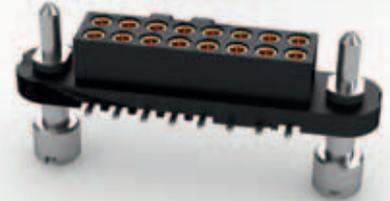
PCB Connectors with straight SMT LF contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 RoHS compliant

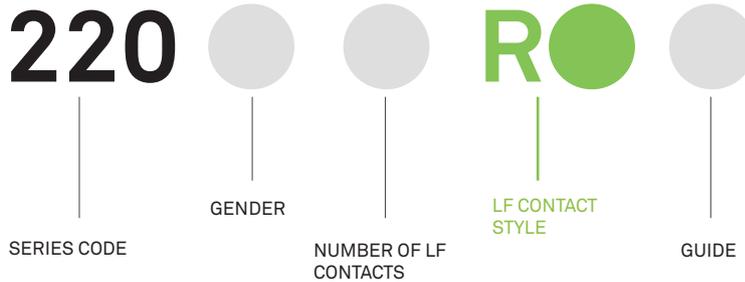
male



female



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

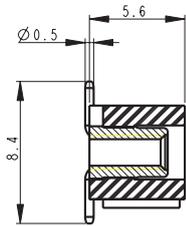
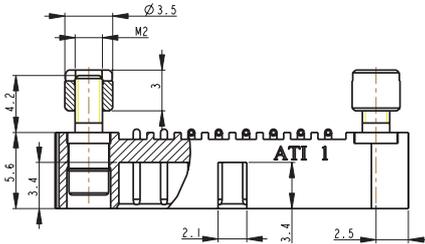
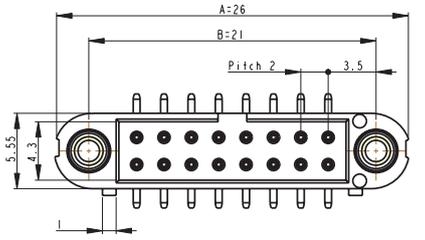
LF CONTACT STYLE
● R3/Gold + Tin/Lead
● R9/Gold + Tin

RoHS RULES (w/ lead) :
● No RoHS (with lead)
● RoHS (without lead)

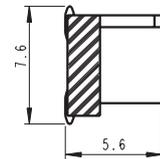
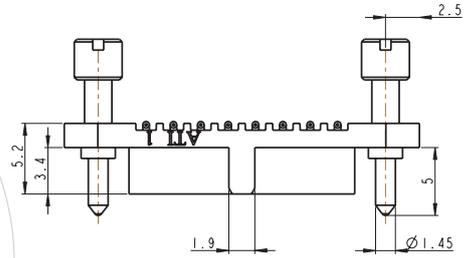
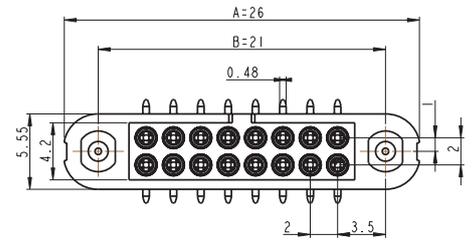
USUAL GUIDES FOR FEMALE CONTACTS
B/3.3mm Jackscrew
C/5.1mm Jackscrew
H/With Hex. socket Jackscrew
J/
AP/With Hex. slotted Jackscrew
0/Without Jackscrews

USUAL GUIDES FOR MALE CONTACTS
P/3.5mm Jackscrew
Q/5mm Jackscrew
Y/Only lockable
Z/
PZ/
QZ/
0/Without Jackscrews

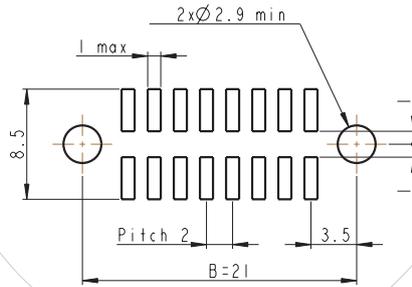
DIMENSIONS / MALE



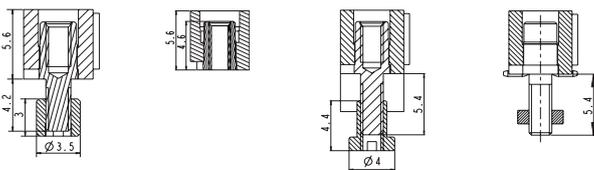
DIMENSIONS / FEMALE



PCB LAYOUT



USUAL GUIDES / For male connectors



Locking torque for P/Q/Y: 0.17 to 0.20 Nm

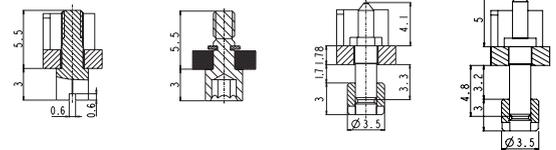
P/Q

Y

Z

PZ
QZ

USUAL GUIDES / For female connectors



Locking torque for AP/H: 0.20 Nm
AP/H: Holes in PCB = Ø 3,5mm

Locking torque for B/C/J: 0.17 to 0.20 Nm

AP

H

B/C

J

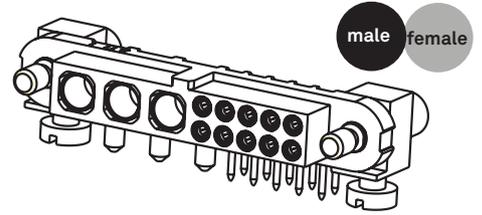


FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

220 SERIES



PCB Connectors with right angle SMT LF contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 RoHS compliant

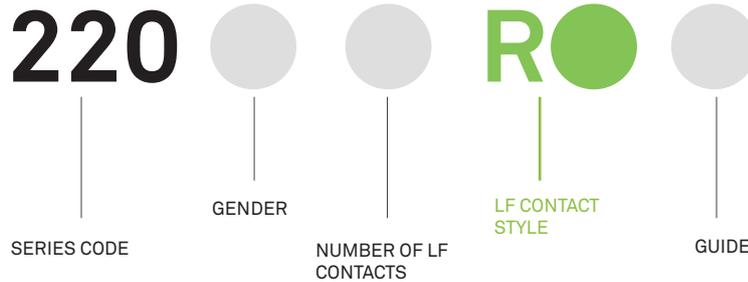
male



female



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

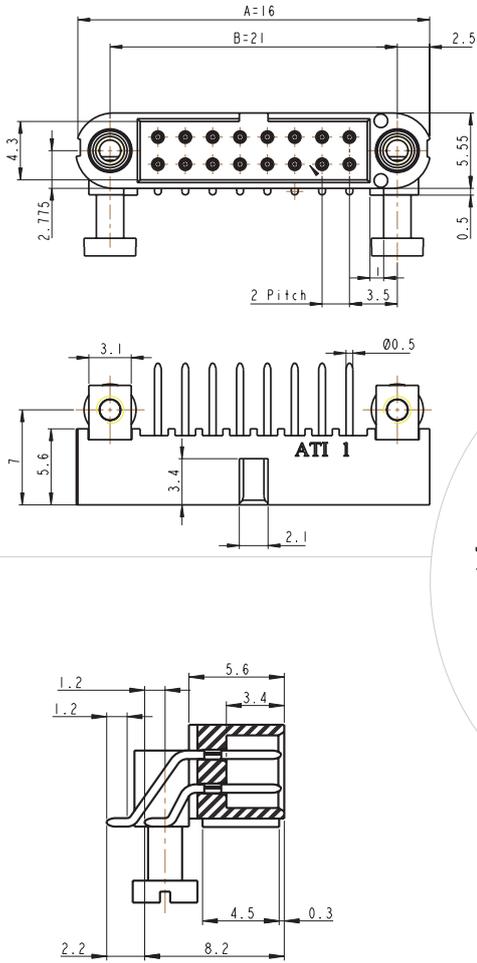
LF CONTACTS STYLE
● R1/Gold + Tin/Lead
● R7/Gold + Tin

RoHS RULES (w/ lead) :
● No RoHS (with lead)
● RoHS (without lead)

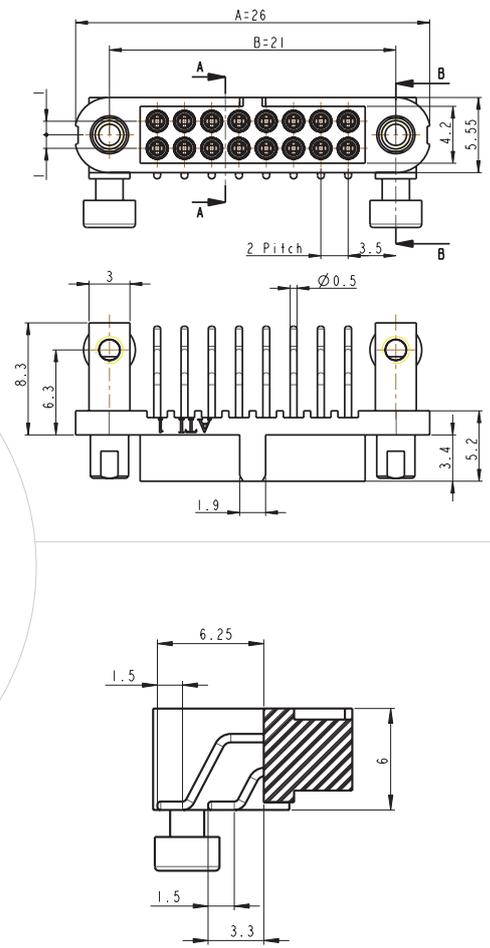
USUAL GUIDES FOR FEMALE CONTACTS
F/
GM/
GN/
0/Without Jackscrews

USUAL GUIDES FOR MALE CONTACTS
R/4mm Jackscrew
S/6mm Jackscrew
U/
W/
FM/
0/Without Jackscrews

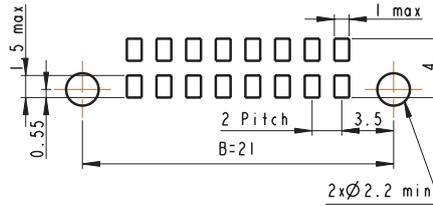
DIMENSIONS / MALE



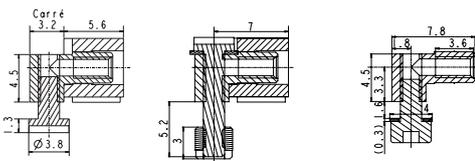
DIMENSIONS / FEMALE



PCB LAYOUT



USUAL GUIDES / For male connectors



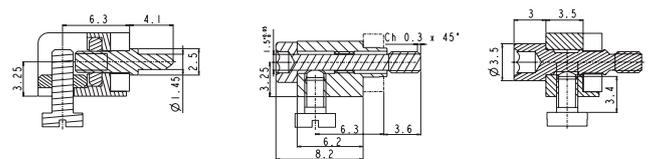
Locking torque for
R/S/U/W : 0.17 to 0.20 Nm

R/S

U

W

USUAL GUIDES / For female connectors



Locking torque for
F/FM/GM/GN : 0.17 to 0.20 Nm

F
FM

GM

GN

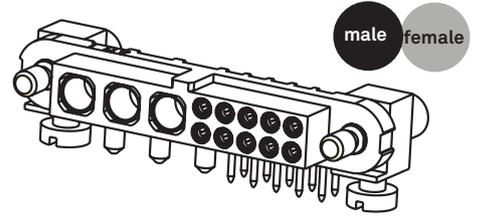


FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



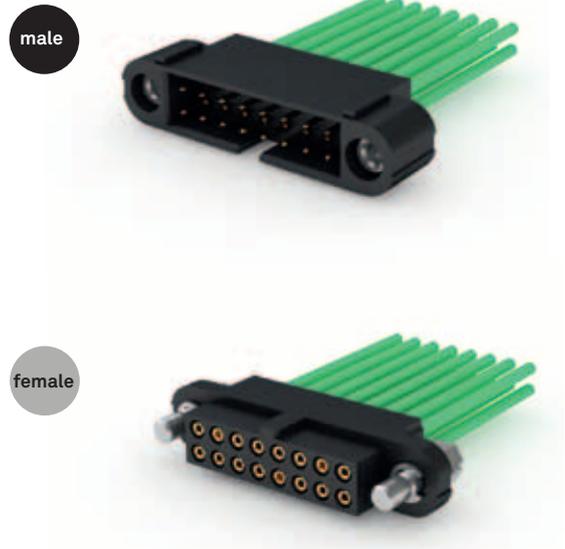
FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

220 SERIES

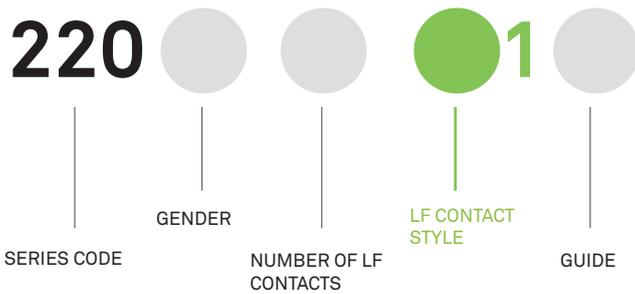


Wire connectors with crimp LF contacts

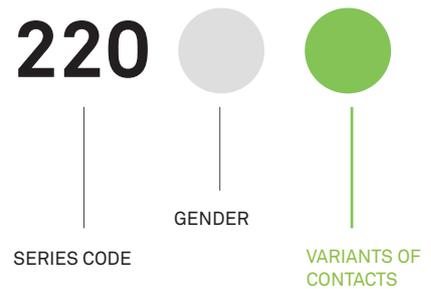
- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Crimp contacts supplied loose
- 4 Crimp contacts are rear insertable and replaceable
- 5 Large bore 22 AWG and small bore 24-28 AWG
- 6 Backpotting is possible thanks to the body shape



HOW TO ORDER / ASSEMBLED



HOW TO ORDER / CONTACT ONLY



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE
● C1/Small bore/Gold
● D1/Large bore/Gold

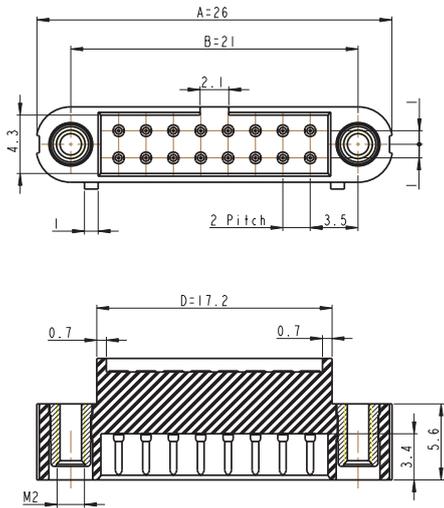
RoHS RULES (w/ lead) :
● No RoHS (with lead)
● RoHS (without lead)

CONTACT ONLY
02/Small bore (C1)
01/Large bore (D1)

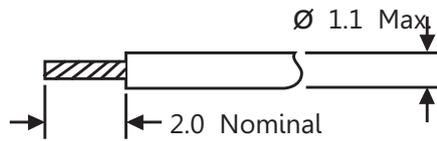
USUAL GUIDES FOR FEMALE CONTACTS
B/3.3mm Jackscrew
C/5.1mm Jackscrew
H/With Hex. socket Jackscrew
J/
AP/With Hex. slotted Jackscrew
0/Without Jackscrews

USUAL GUIDES FOR MALE CONTACTS
P/3.5mm Jackscrew
Q/5mm Jackscrew
Y/Only lockable
Z/
PZ/
QZ/
0/Without Jackscrews

DIMENSIONS / MALE

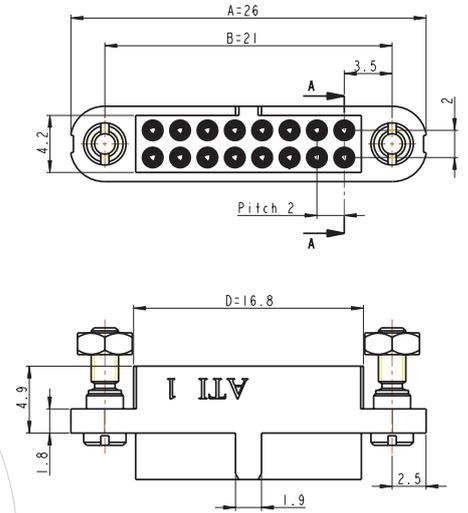


WIRE STRIPPING DETAILS



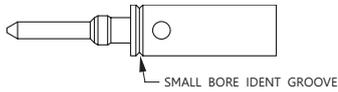
Crimp tool **M22520/2-01**
 Positioner **MP6818**
 Contact insertion/removal tool **220S03**

DIMENSIONS / FEMALE

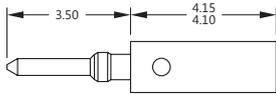


CONTACTS / MALE

C1 - Small Bore (24-28 AWG) : 220 M 02

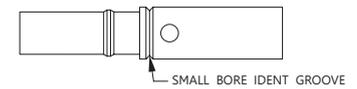


D1 - Large Bore (22 AWG) : 220 M 01

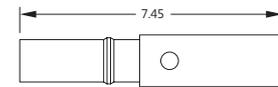


CONTACTS / FEMALE

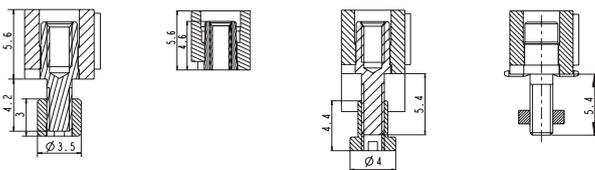
C1 - Small Bore (24-28 AWG) : 220 F 02



D1 - Large Bore (22 AWG) : 220 F 01



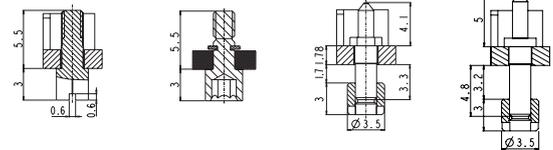
USUAL GUIDES / For MALE connectors



Locking torque for P/Q/Y : 0.17 to 0.20 Nm



USUAL GUIDES / For FEMALE connectors



Locking torque for AP/H : 0.20 Nm
 AP/H : Holes in PCB = Ø 3,5mm

Locking torque for B/C/J : 0.17 to 0.20 Nm



FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

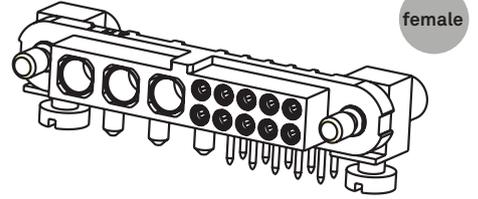


FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)



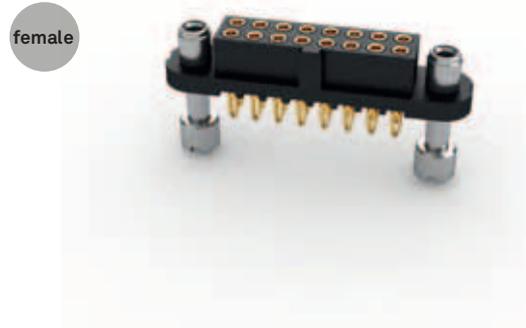
FOR CRIMPING SEE TECHNICAL INDEX (PAGE 108)

220 SERIES



PCB Connectors with straight press-fit LF contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 2 types of plating



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female

NUMBER OF LF CONTACTS
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE

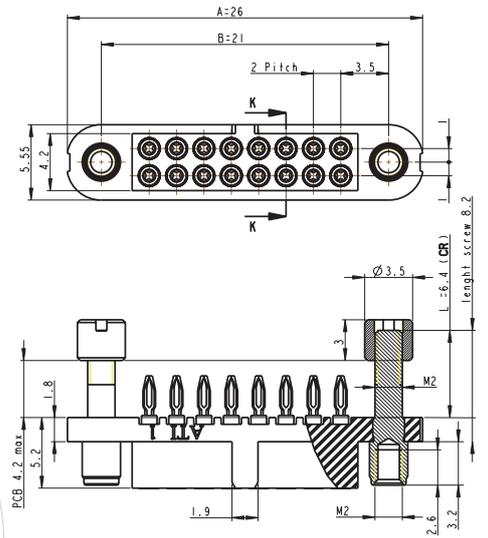
- PF1/Tin+Lead
- PF2/Gold

RoHS RULES (w/ lead) :

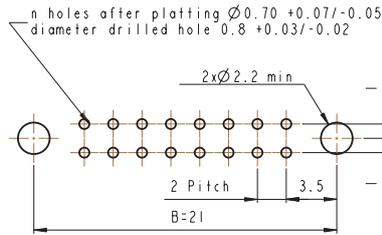
- No RoHS (with lead)
- RoHS (without lead)

USUAL GUIDES FOR FEMALE CONTACTS
BR/PCB Thickness 1.2/2.4
DR/PCB Thickness 3.6
CR/PCB Thickness 4.2
ER/
0/Without Jackscrews

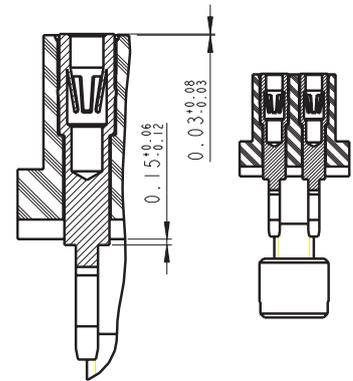
DIMENSIONS / FEMALE



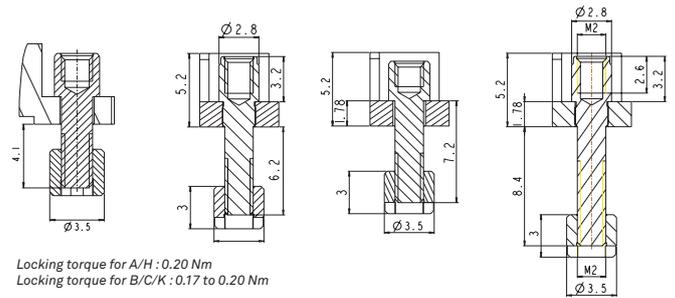
PCB LAYOUT



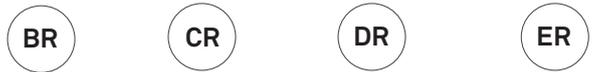
PCB holes specifications : plating
 PCB surface finish : tin, copper, gold over nickel
 Thickness copper : tin 25 μ min, copper 25 μ min, gold over nickel 25 μ min
 Thickness tin : tin 5 - 15 μ
 Thickness nickel : gold over nickel 2,5 - 5 μ
 Thickness gold : gold over nickel 0,05 - 0,2 μ



USUAL GUIDES / For FEMALE connectors



Locking torque for A/H : 0.20 Nm
 Locking torque for B/C/K : 0.17 to 0.20 Nm

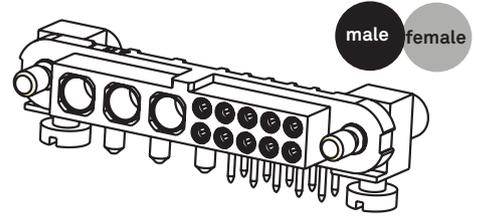


FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



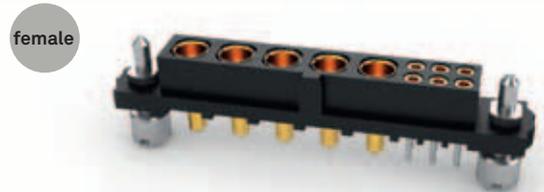
FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)

220 SERIES

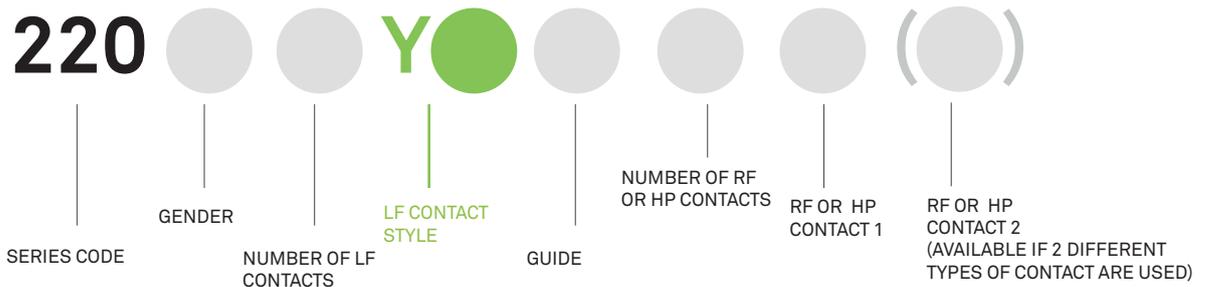


PCB Connectors with straight LF contacts & straight RF/High Power (HP) contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 Assembled with RF or high power contacts



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
00/no LF contacts
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE

- Y1/3.1mm Tails Gold + Tin/Lead
- Y3/4.6mm Tails Gold + Tin/Lead
- Y5/3.1mm Tails Gold
- Y6/4.6mm Tails Gold
- Y7/3.1mm Tails Gold + Tin
- Y8/5.5mm Tails Gold
- Y9/4.6mm Tails Gold + Tin
- 00/no LF contacts

RoHS RULES (w/ lead) :

- No RoHS (with lead)
- RoHS (without lead)

NUMBER OF RF OR HIGH POWER CONTACTS
For RF/HP contacts only : 2 digits = number of cavities from 02 to 12

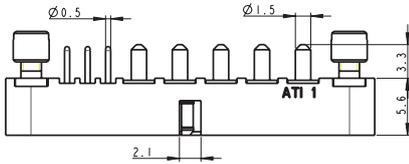
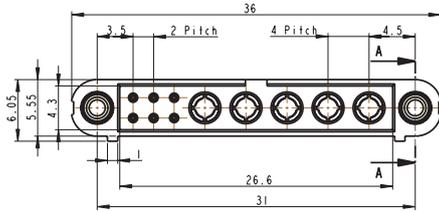
For mixed-layout : each digit = number of cavities on each side of the LF contacts (shown looking on mating face) :

- 1st digit (0 to 9) = right side for male, left side for female
- 2nd digit (0 to 9) = left side for male, right side for female

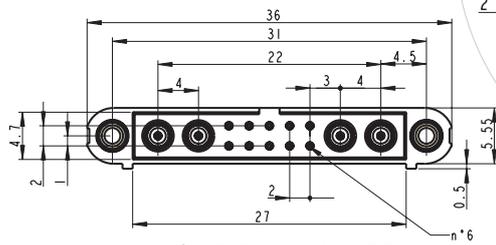
RF/HP CONTACT 1
Type of high frequency or high power contact defined on pages 84-85 (RF) and 88-89 (HP)

RF/HP CONTACT 2
Available if a second type of contact is used Pages 84-85 (RF) and 88-89 (HP)

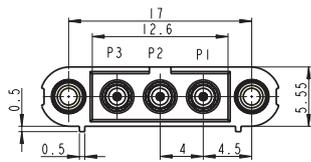
DIMENSIONS / MALE



Example : 220 M 06 Y1 P 50 70

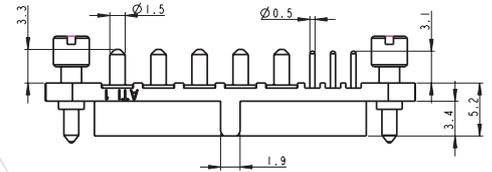
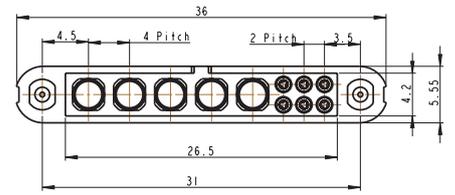


Example : 220 M 10 Y1 P 22 30

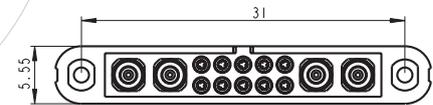


Example : 220 M 00 00 P 03 30

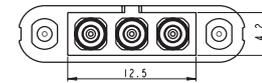
DIMENSIONS / FEMALE



Example : 220 F 06 Y1 B 50 75

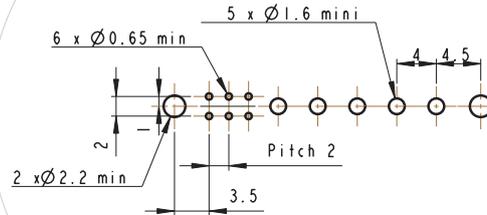


Example : 220 F 10 Y1 B 22 35



Example : 220 F 00 00 B 03 35

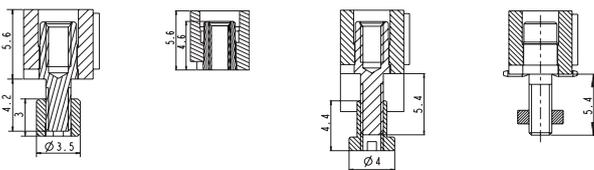
PCB LAYOUT Side of coding key



Example for :
220 M 06 Y1 P 50 70
220 F 06 Y1 B 50 75

WITH RF/HP CONTACTS ONLY

USUAL GUIDES / For male connectors



Locking torque for P/Q/Y : 0.17 to 0.20 Nm

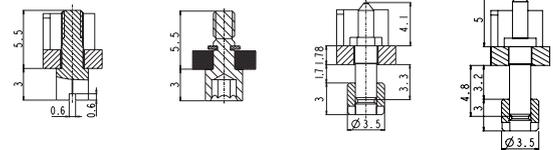
P/Q

Y

Z

PZ
QZ

USUAL GUIDES / For female connectors



Locking torque for AP/H : 0.20 Nm
AP/H : Holes in PCB = $\varnothing 3,5\text{mm}$

Locking torque for B/C/J : 0.17 to 0.20 Nm

AP

H

B/C

J



FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR RF OR HIGH POWER CONTACTS SEE CONTACTS SECTION (PAGE 76)

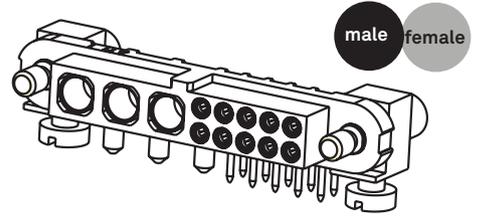


FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)



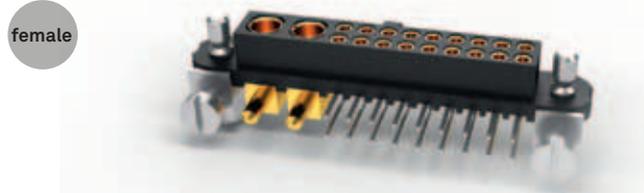
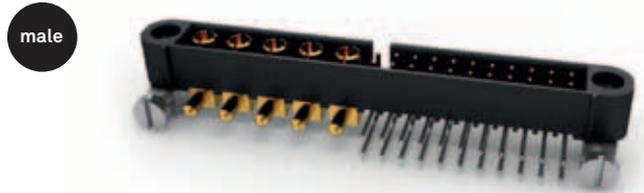
FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)

220 SERIES

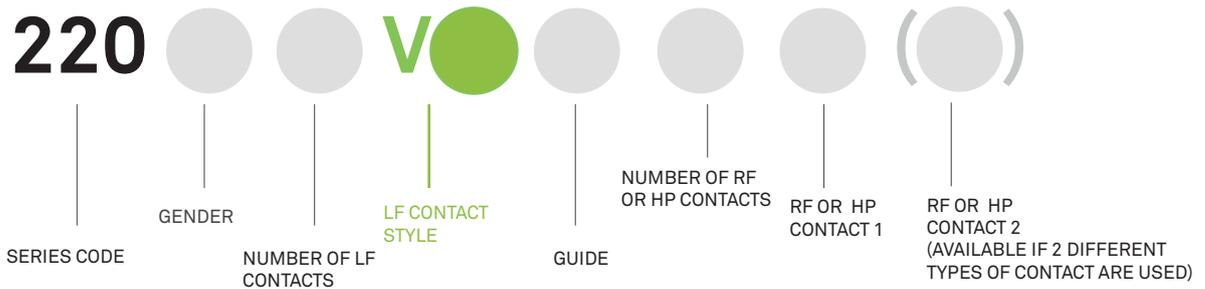


PCB Connectors with right angle LF contacts & right angle RF/High Power (HP) contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 Assembled with RF or high power contacts



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
00/no LF contacts
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE

- V1/3.1mm Tails Gold + Tin/Lead
- V3/4.6mm Tails Gold + Tin/Lead
- V5/3.1mm Tails Gold
- V6/4.6mm Tails Gold
- V7/3.1mm Tails Gold + Tin
- V9/4.6mm Tails Gold + Tin
- 00/no LF contacts

RoHS RULES (w/ lead) :

- No RoHS (with lead)
- RoHS (without lead)

NUMBER OF RF OR HIGH POWER CONTACTS
For RF/HP contacts only : 2 digits = number of cavities from 02 to 12

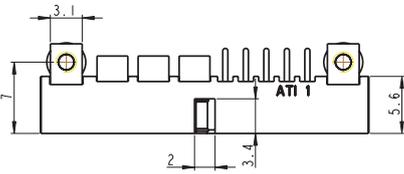
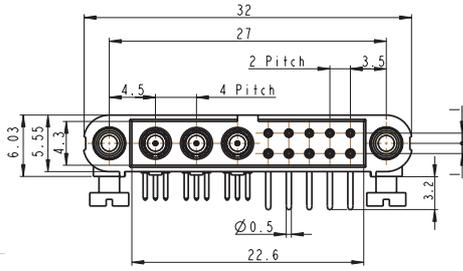
For mixed-layout : each digit = number of cavities on each side of the LF contacts (shown looking on mating face) :

- 1st digit (0 to 9) = right side for male, left side for female
- 2nd digit (0 to 9) = left side for male, right side for female

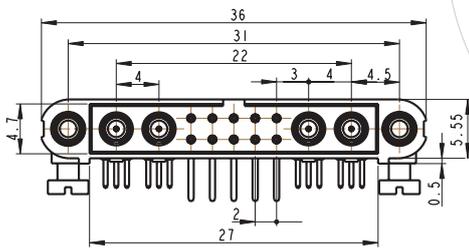
RF/HP CONTACT 1
Type of high frequency or high power contact defined on pages 84-85 (RF) and 88-89 (HP)

RF/HP CONTACT 2
Available if a second type of contact is used on pages 84-85 (RF) and 88-89 (HP)

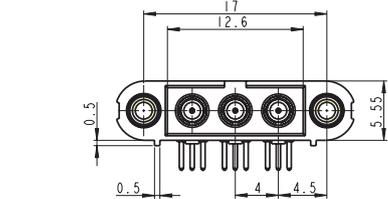
DIMENSIONS / MALE



Example : 220 M 10 V1 R 03 40

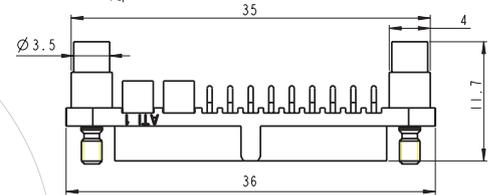
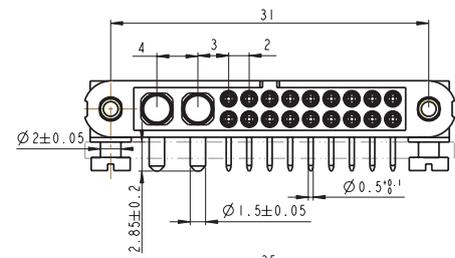


Example : 220 M 10 V1 R 22 40

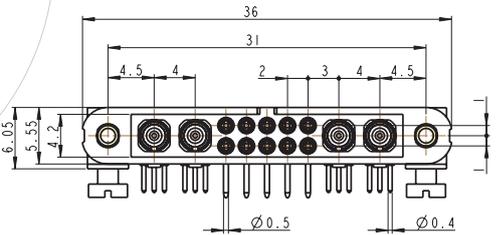


Example : 220 M 00 00 P 03 40

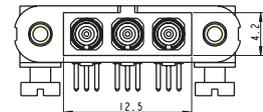
DIMENSIONS / FEMALE



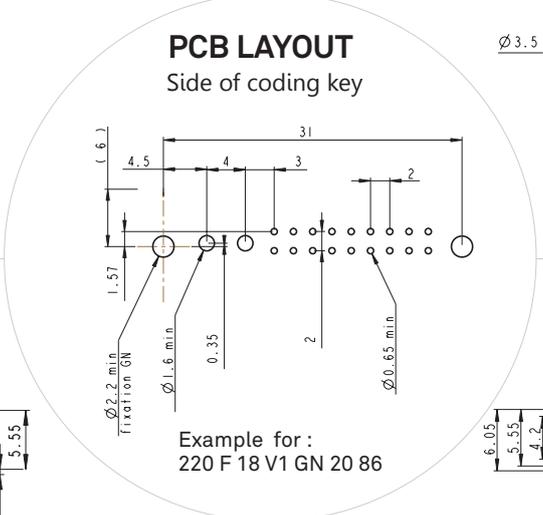
Example : 220 F 18 V1 GN 20 86



Example : 220 F 10 V1 GN 22 50



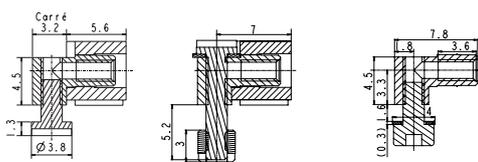
Example : 220 F 00 00 GN 03 50



Example for :
220 F 18 V1 GN 20 86

WITH RF/HIGH POWER CONTACTS ONLY

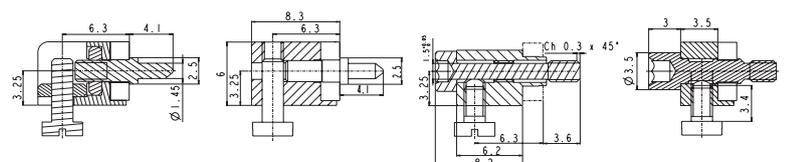
USUAL GUIDES / For male connectors



Locking torque for
R/S/U/W : 0.17 to 0.20 Nm



USUAL GUIDES / For female connectors



Locking torque for
F/FM/GM/GN : 0.17 to 0.20 Nm



FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR RF OR HIGH POWER CONTACTS SEE CONTACTS SECTION (PAGE 76)

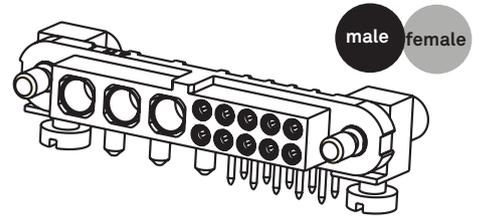


FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)



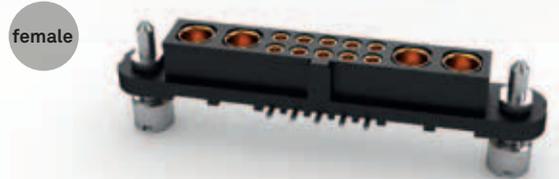
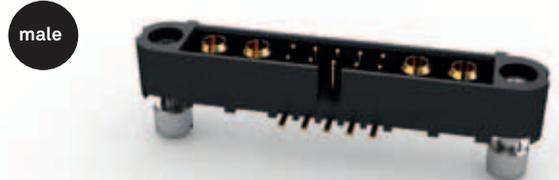
FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)

220 SERIES

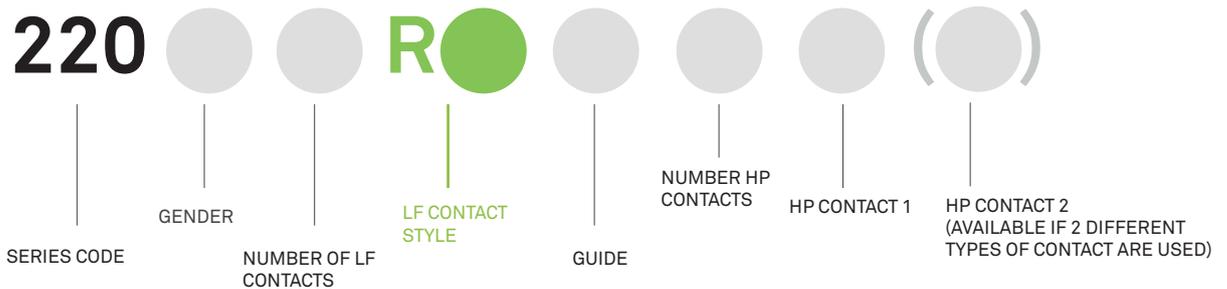


PCB Connectors with straight SMT LF contacts & straight SMT High Power (HP) contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 Assembled with high power contacts



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
00/no LF contacts
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE
● R3/Gold + Tin/Lead
● R9/Gold + Tin
● 00/no LF contacts

RoHS RULES (w/ lead) :
● No RoHS (with lead)
● RoHS (without lead)

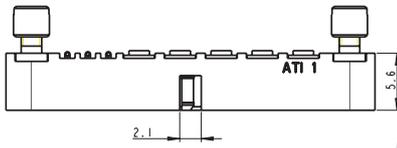
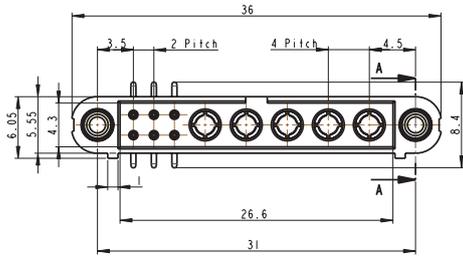
NUMBER OF HIGH POWER CONTACTS
For HP contacts only : 2 digits = number of cavities from 02 to 12

For mixed-layout : each digit = number of cavities on each side of the LF contacts (shown looking on mating face) :
- 1st digit (0 to 9) = right side for male, left side for female
- 2nd digit (0 to 9) = left side for male, right side for female

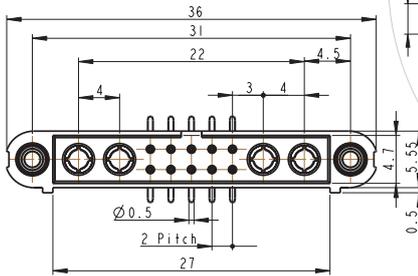
HP CONTACT 1
Type of high frequency or high power contact defined on pages 90-91 (HP)

HP CONTACT 2
Available if a second type of contact is used
Pages 90-91(HP)

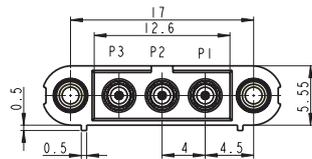
DIMENSIONS / MALE



Example : 220 M 06 R3 P 50 140

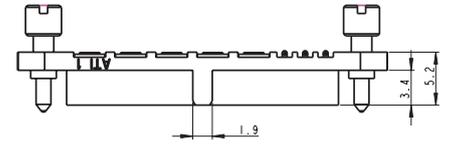
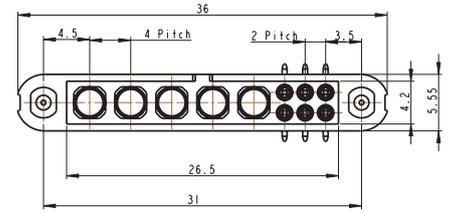


Example : 220 M 10 R3 P 22 140

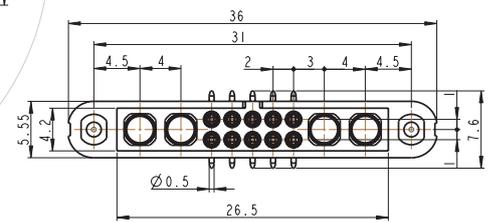


Example : 220 M 00 00 P 03 140

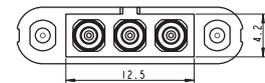
DIMENSIONS / FEMALE



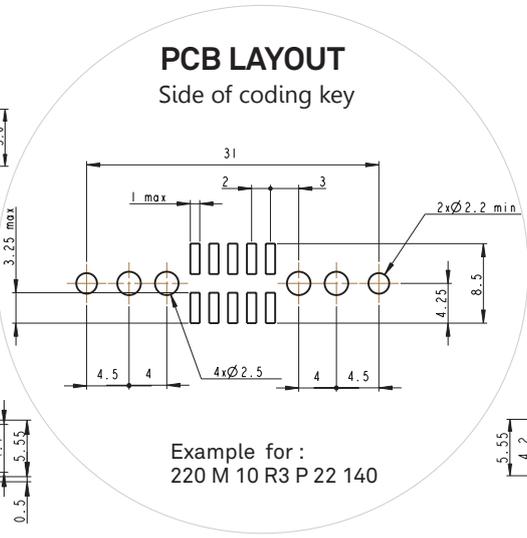
Example : 220 F 06 R3 B 50 85



Example : 220 F 10 R3 B 22 85



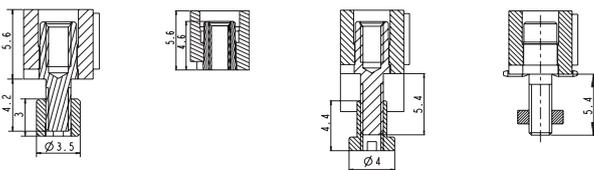
Example : 220 F 00 00 B 03 85



Example for :
220 M 10 R3 P 22 140

WITH HIGH POWER CONTACTS ONLY

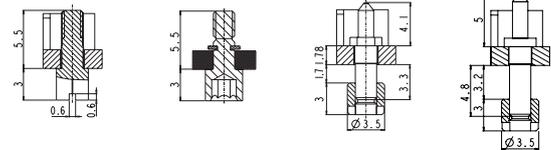
USUAL GUIDES / For male connectors



Locking torque for P/Q/Y : 0.17 to 0.20 Nm



USUAL GUIDES / For female connectors



Locking torque for AP/H : 0.20 Nm
AP/H : Holes in PCB = Ø 3,5mm

Locking torque for B/C/J : 0.17 to 0.20 Nm



FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR HIGH POWER CONTACTS SEE CONTACTS SECTION (PAGE 76)

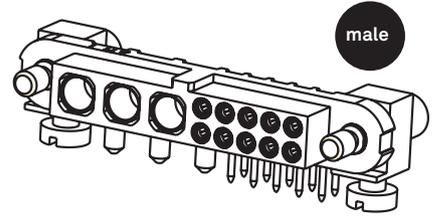


FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)



FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)

220 SERIES

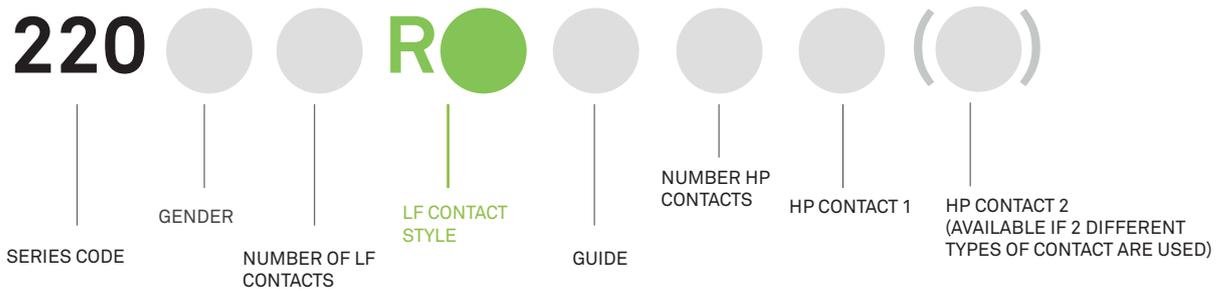


PCB Connectors with right angle SMT LF contacts & right angle SMT High Power (HP) contacts

- 1 Polarised mouldings
- 2 Fully shrouded contacts
- 3 Choice of PC Tail length
- 4 Assembled with high power contacts



HOW TO ORDER / ASSEMBLED



GLOSSARY / HOW TO ORDER

GENDER
F/Female
M/Male

NUMBER OF LF CONTACTS
00/no LF contacts
04 to 50

GUIDES
Short list on the opposite page
Complete list, see technical index (page 96).

LF CONTACT STYLE
● R1/Gold + Tin/Lead
● R7/Gold + Tin
00/no LF contacts

RoHS RULES (w/ lead) :
● No RoHS (with lead)
● RoHS (without lead)

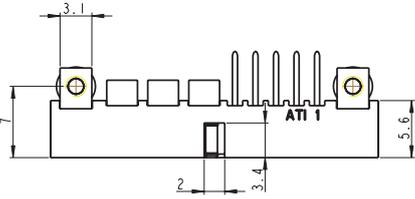
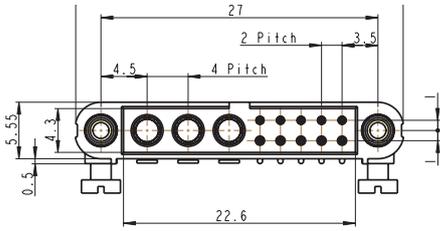
NUMBER OF HIGH POWER CONTACTS
For HP contacts only : 2 digits = number of cavities from 02 to 12

For mixed-layout : each digit = number of cavities on each side of the LF contacts (shown looking on mating face) :
- 1st digit (0 to 9) = right side for male, left side for female
- 2nd digit (0 to 9) = left side for male, right side for female

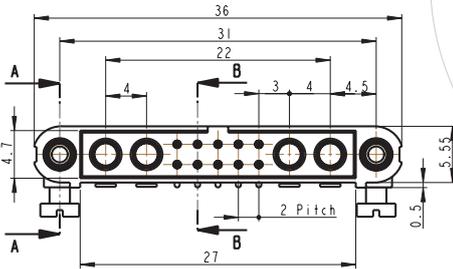
HP CONTACT 1
Type of high frequency or high power contact defined on pages 90-91 (HP)

HP CONTACT 2
Available if a second type of contact is used
Pages 90-91 (HP)

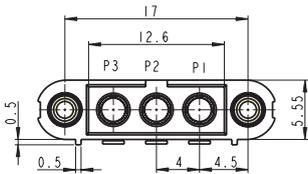
DIMENSIONS / MALE



Example : 220 M 10 R1 R 03 95

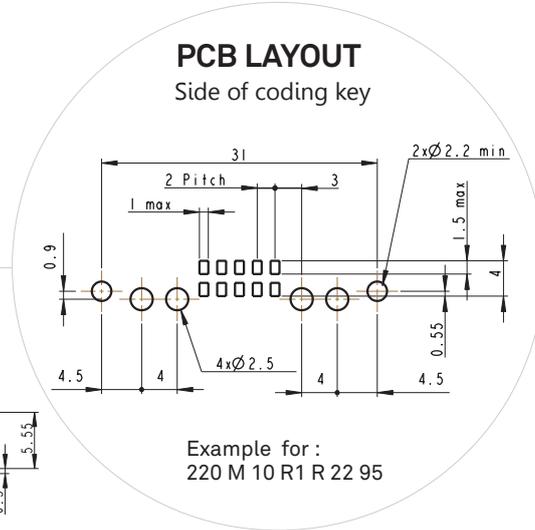


Example : 220 M 10 R1 R 22 95



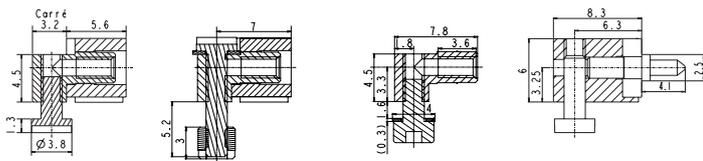
Example : 220 M 00 00 P 03 95

DIMENSIONS / FEMALE



WITH HIGH POWER CONTACTS ONLY

USUAL GUIDES / For male connectors



Locking torque for
R/S/U/W : 0.17 to 0.20 Nm

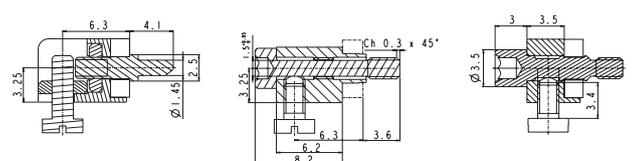
R/S

U

W

FM

USUAL GUIDES / For female connectors



Locking torque for
F/GM/GN : 0.17 to 0.20 Nm

F

GM

GN



FOR ACCESSORIES SEE TECHNICAL INDEX (PAGE 94)



FOR HIGH POWER CONTACTS SEE CONTACTS SECTION (PAGE 76)



FOR OTHER GUIDES SEE TECHNICAL INDEX (PAGE 96)



FOR TOOLS SEE TECHNICAL INDEX (PAGE 109)