

ATI ELECTRONIQUE

# CONNECTORS 2MNSERIES



#### **INTRODUCTION**

210 series is a range of 2 mm pitch connectors for printed-circuit, created for low intensity applications.
Its small mass allows a self-using in severe environment. Its low profile allows a miniatured layout.

211 series is available in 1 row from 2 to 17 ways in 7 sizes and 212 series is available in 2 rows from 4 to 34 ways in 11 sizes.

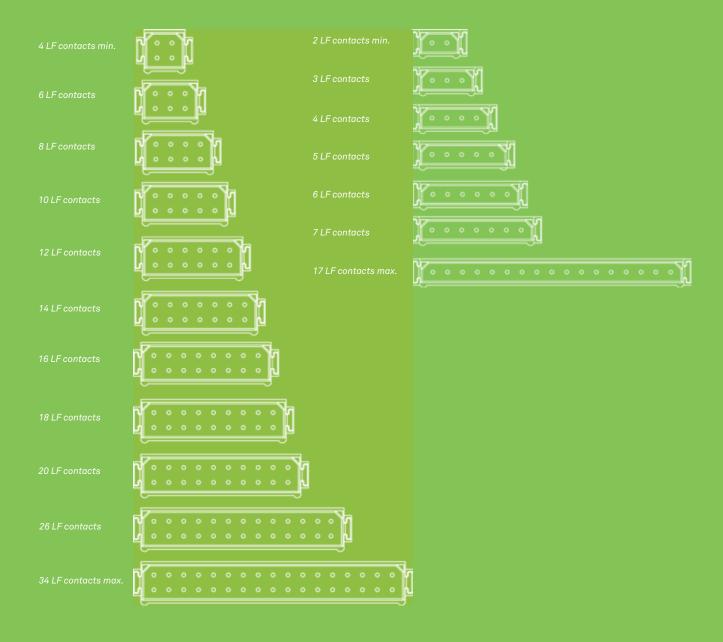


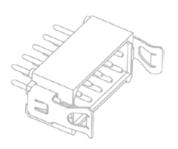


LF contacts /

212 series

#### 211 series



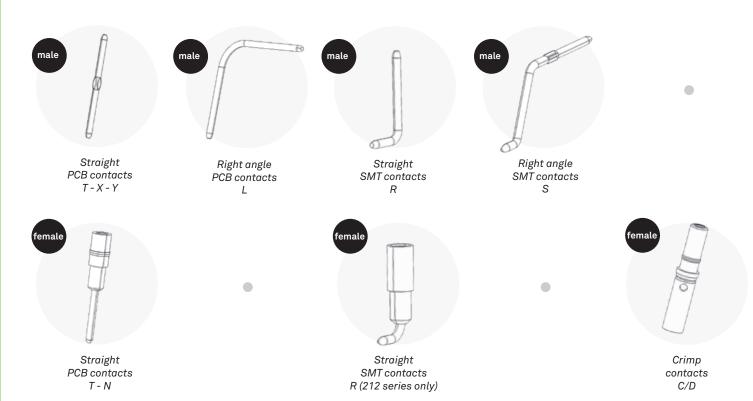


### An Introduction to the 210 SERIES

This series of connectors have a large range termination styles :

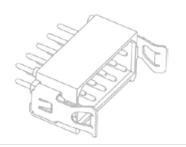
- PCB mounting (straight and right angle)
- · SMI
- Crimp contacts

#### **Terminations**



#### Accessories and tooling



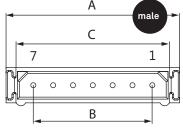


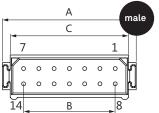
#### POLARISING AND SIZING FEATURES / SHOWN LOOKING ON MATING FACE

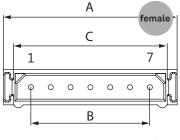
SIZES

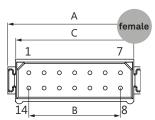
211 series insulator body with LF contacts

212 series insulator body with LF contacts









- male: B + 6.1 female: B + 5.3
- B (No of contacts 1) x 2
- C B+5.6

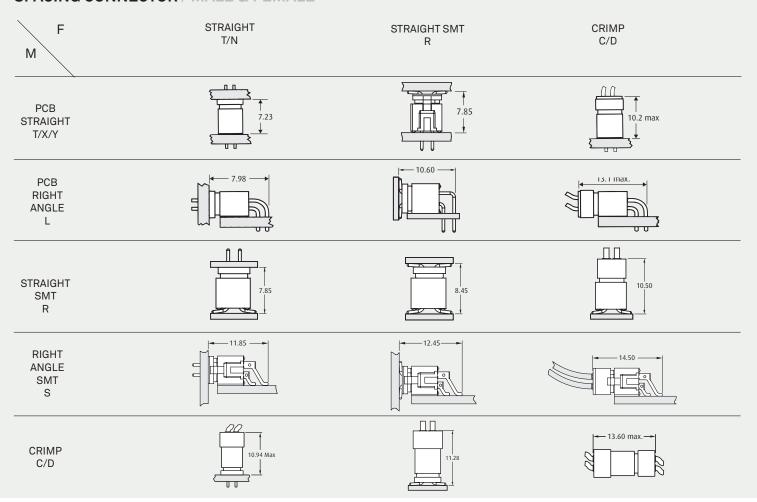
#### 211

No of contacts	•	2	3	4	5	6	7	17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm for male connectors [latches fitted]	A	8.1	10.1	12.1	14.1	16.1	18.1	38.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm for female connectors [latches fitted]	A	7.3	9.3	11.3	13.3	15.3	17.3	37.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Distance between axis	В	2	4	6	8	10	12	32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm [latches no fitted]	0	7,6	9,6	11,6	13,6	15,6	17,6	37,6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

#### 212

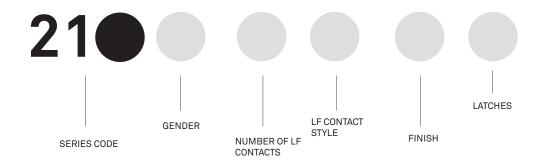
No of contacts	•	4	6	8	10	12	14	16	18	20	26	34	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm for male connectors [latches fitted]	A	8.1	10.1	12.1	14.1	16.1	18.1	20.1	22.1	24.1	30.1	38.1	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm for female connectors [latches fitted]	A	7.3	9.3	11.3	13.3	15.3	17.3	19.3	21.3	23.3	29.3	37.3	•	•	•	•	•	•	•	•	•	•	•	•
Distance between axis	В	2	4	6	8	10	12	14	16	18	24	32	•	•	•	•	•	•	•	•	•	•	•	•
Length in mm [latches no fitted]	G	7.6	9.6	11.6	13.6	15.6	17.6	19.6	21.6	23.6	29.6	37.6	•	•	•	•	•	•	•	•	•	•	•	•

#### **SPACING CONNECTOR / MALE & FEMALE**



**HOW TO ORDER / ASSEMBLED** 

FOR 211 SERIES please contact us



#### **GLOSSARY / HOW TO ORDER**

#### **SERIES CODE**

211/One row 212/Two rows

#### **GENDER**

F/Female M/Male

#### NUMBER OF LF CONTACTS

02 - 03 - 04 - 05 - 06 - 07 - 17/One row

04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

#### LF CONTACT STYLES

T/Straight on PCB male or female X-Y/Straight on PCB male N/Straight on PCB short female L/Right angle on PCB male R/Straight SMT male or female S/Right angle SMT male C/Crimp 24-28 AWG female D/Crimp 22 AWG female

#### FINISH

- 01/Gold (crimp contacts) • 03/Gold + Tin/Lead
- 04/Gold + Tin

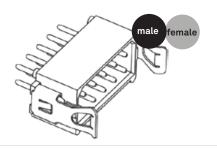
#### RoHS RULES (w/lead):

• No RoHS (with lead) • RoHS (without lead)

#### **LATCHES**

U/Unlatched (male or female) L/Latched (male only)

LC/Latches for straight SMT (male only) LR/Latches for right angle SMT (male only)



### PCB Connectors with straight LF contacts

- Polarised mouldings
- 2 Fully shrouded male contacts
- 3 3 tail lengths
- Retaining strap in option for male connector

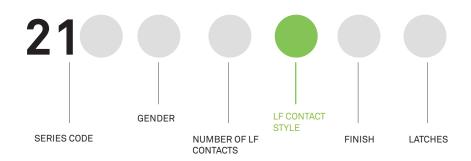








#### **HOW TO ORDER / ASSEMBLED**



#### **GLOSSARY / HOW TO ORDER**

#### GENDER

F/Female M/Male

#### SERIES CODE

211/One row 212/Two rows

#### NUMBER OF LF CONTACT

02 - 03 - 04 -05 - 06 - 07 - 17/One row 04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

#### LF CONTACT STYLE

N/1.1mm Tail, female only T/3mm Tail, male or female X/9.3mm Tail, male only Y/5.3mm Tail, male only

#### LATCHE

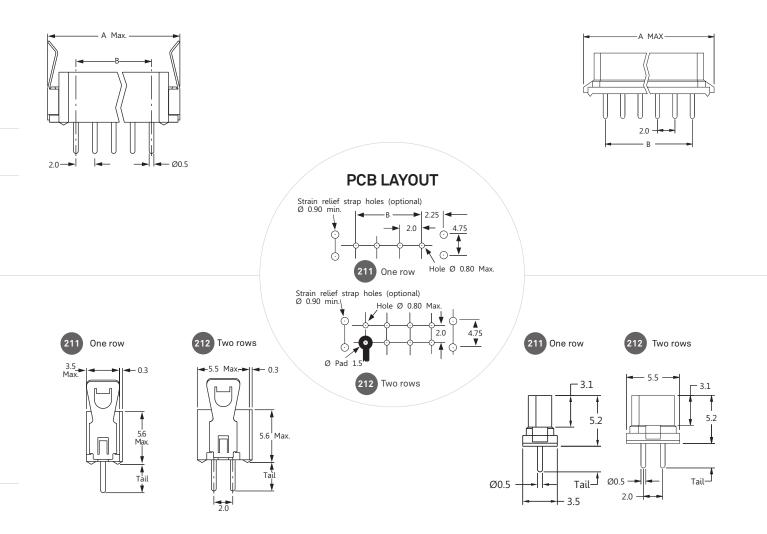
U/Unlatched (male or female) L/Latched (male only)

#### FINISH

03/Gold + Tin/Lead04/Gold + Tin

RoHS RULES (w/ lead):
• No RoHS (with lead)

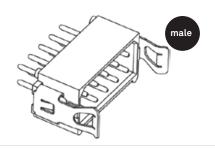
RoHS (without lead)



#### **RETAINING STRAP / MALE**



Strap MP 6759 can be supplied with male connector.



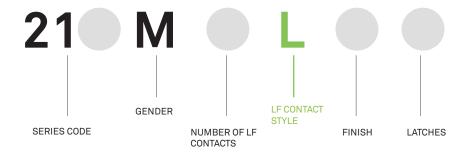
### PCB Male Connectors with right angle LF contacts

- Polarised mouldings
- Fully shrouded male contacts
- 3 Retaining strap in option for male connector





#### **HOW TO ORDER / ASSEMBLED**



#### **GLOSSARY / HOW TO ORDER**

GENDER M/Male

SERIES CODE 211/One row 212/Two rows

NUMBER OF LF CONTACTS
02 - 03 - 04 -05 - 06 - 07 - 17/One row
04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

LF CONTACT STYLE L/Right angle male

LATCHES
U/Unlatched (male or female)
L/Latched (male only)

FINISH

03/Gold + Tin/Lead

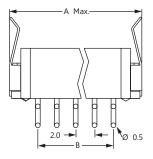
04/Gold + Tin

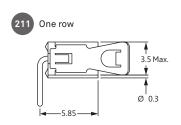
RoHS RULES (w/ lead):

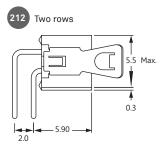
No RoHS (with lead)

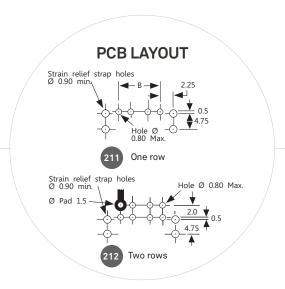
RoHS (without lead)

#### **DIMENSIONS / MALE**





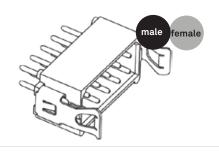




#### **RETAINING STRAP/MALE**



Strap MP 6759 can be supplied with male connector.



### PCB Connectors with straight SMT LF contacts

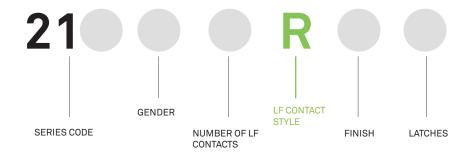
- Polarised mouldings
- 2 Fully shrouded male contacts
- 3 SMT latches







#### **HOW TO ORDER / ASSEMBLED**



#### **GLOSSARY / HOW TO ORDER**

#### GENDER

F/Female M/Male

#### SERIES CODE

**211**/One row **212**/Two rows

#### NUMBER OF LF CONTACT

03 - 04 -05 - 06 - 07 - 17/One row

04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

#### LF CONTACT STYLE

R/Straight SMT

#### LATCHES

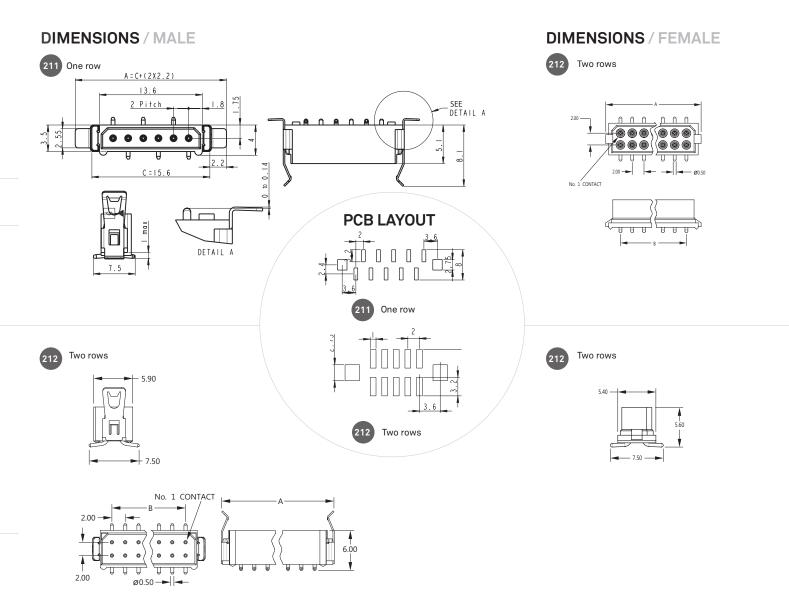
U/Unlatched (male or female)
L/Latched (male only)
LC/Straight SMT Latches (male only)

#### FINISH

03/Gold + Tin/Lead04/Gold + Tin

### RoHS RULES (w/ lead): No RoHS (with lead)

RoHS (without lead)



#### **SMT LATCHES / MALE**

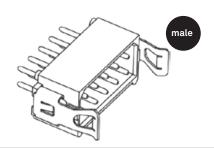


SMT latches are recommanded but you can order the connector with traditional latches (code L instead of LC). In this case, strain relief strap can be ordered separately (code MP 6759).

Pick and place option: consult us.

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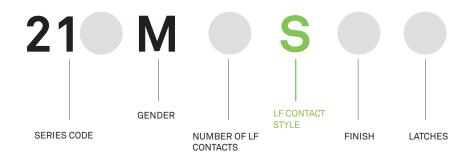
### PCB Connectors with right angle SMT LF contacts

- Polarised mouldings
- Fully shrouded male contacts
- 3 SMT latches





#### **HOW TO ORDER / ASSEMBLED**



#### **GLOSSARY / HOW TO ORDER**

GENDER M/Male

SERIES CODE 211/One row 212/Two rows

NUMBER OF LF CONTACTS
02 - 03 - 04 -05 - 06 - 07 - 17/One row
04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

LF CONTACT STYLE S/Right angle SMT male

LATCHES
U/Unlatched (male or female)
L/Latched (male only)
LR/Right angle SMT Latches (male only)

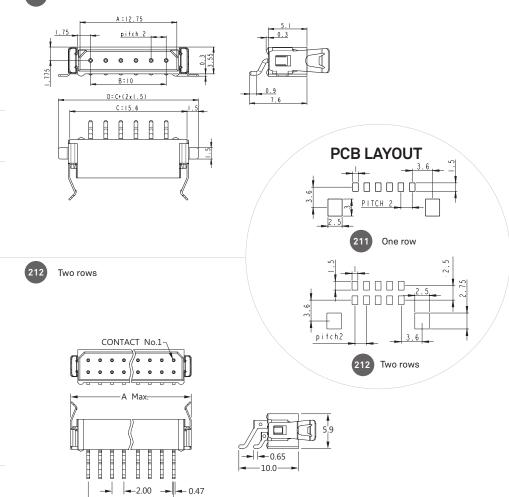
FINISH

03/Gold + Tin/Lead

04/Gold + Tin

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

### DIMENSIONS / MALE 211 One row A=12,75

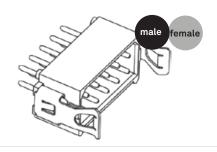


#### **SMT LATCHES / MALE**



SMT latches are recommanded but you can order the connector with traditional latches (code L instead of LR). In this case, strain relief strap can be ordered separately (code MP 6759).

Pick and place option: consult us.



Wire connectors with crimp LF contacts

- Contacts are rear insertable
- Spare contacts available
- Available hoods for 2 row connectors

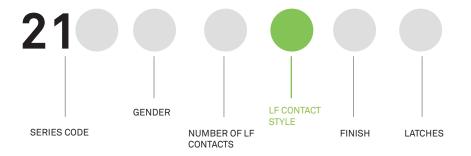


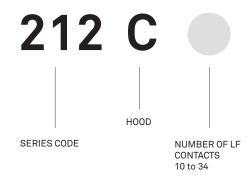




**HOW TO ORDER / ASSEMBLED** 

**HOW TO ORDER / HOOD** 





#### **GLOSSARY / HOW TO ORDER**

F/Female M/Male

**211**/One row 212/Two rows **NUMBER OF LF CONTACTS** 

Female:

02 - 03 - 04 -05 - 06 - 07 - 17/One row

04 - 06 - 08 - 10 - 12 - 14 - 16 - 18 - 20 - 26 - 34/Two rows

Male:

02 - 03/One row

04 - 06 - 08 - 10 - 12/Two rows

LF CONTACT STYLE
Spare female contacts are available: see part number below. C/Crimp 24-28 AWG) D/Crimp 22 AWG

U/Unlatched (male or female) L/Latched (male only)

01/Gold

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

#### **DIMENSIONS / MALE**

### 2.0 6.1 MAX

#### **WIRE STRIPPING DETAILS**



Positioner MP6818 Contact insertion/removal tool 220S03



**CONTACT / FEMALE** 

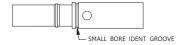
3.5 max.

2.0

**DIMENSIONS / FEMALE** 

7.65 max.

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

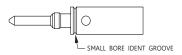


D - Large Bore (22 AWG): Code B741 C03

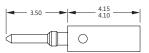


#### CONTACT / MALE

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



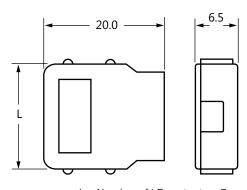
D - Large Bore (22 AWG) : Code B741 C22



#### 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

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OR TOOLS SEE TECHNICAL INDEX (PAGE 109)

ATI reserves the right to discontinue the manufacture or change specifications without prior notice, or any parts illustrated in this data sheet.

For more information, please take advice.

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