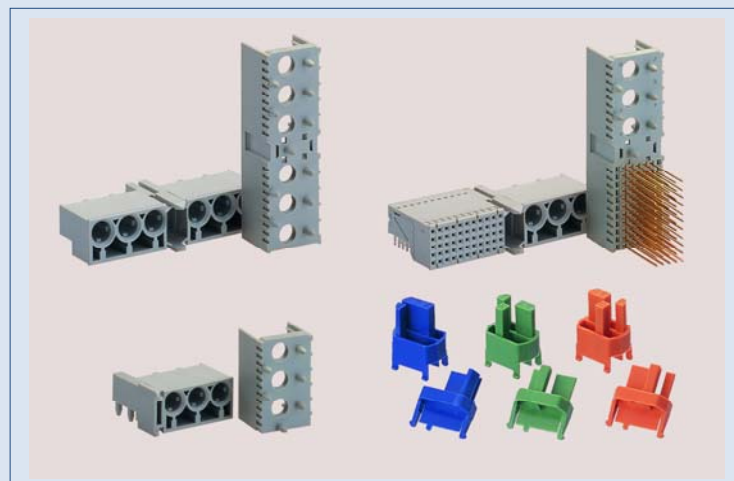
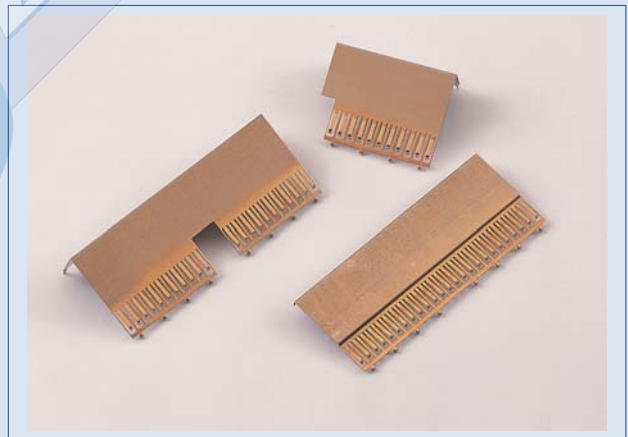
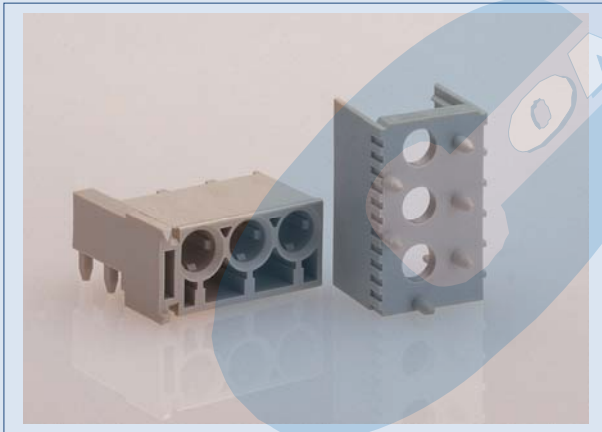


2.00 mm. HARD METRIC CONNECTORS



2.00 mm. HARD METRIC CONNECTORS



General Specifications.

General Features

- Available in type A, AB25, AB22, AB19, B25, B22, B19, C, L, M and N with full sets of keys
- Upper and lower shielding for the female connector.
- Three different pin length in contact area and four different length in rear mating area for the male connector
- Full series are in press-fit termination
- Inverse mating configuration
- Minimum wiping length: 2,5 mm
- Meet standard coding system(MPC) according to IEC61076-4-101
- Two rows(z and f) of male connectors are for the shielding of female connectors
- Recommended plated through hole 0,60 +-0,05 mm for the press-fitting
- Ideal for digital high speed data applications with excellent parameters for impedance match, propagation delay, cross talk, reflection
- End to end stackable
- Five signal rows plus outer rows for shieldings
- 2.00 mm Hard metric and DIN 41612 connectors can be used on the same PCB as both have the same mating distance
- Coding system prevents mix-up and wrong mating between male and female connectors
- Rear pin options (4 lengths) for through the backplane I/O applications
- High density capability
- Shield for EMI/RFI protection
- Expandability for end user application

Mechanical features

- Grid size: 2,00 mm
- Air and creepage distance: Male 0,80, Female 0,60 mm.
- Contact level: Level 1 (5,30 mm); Level 2 (6,80 mm); Level 3 (8,30 mm)
- Mating force for signal contact: 0,075 Kg f Maximum x contact
- Mating force for shield contact: 0,1 Kg f Max. x contact
- Withdrawal force: 0,015 Kg f Min. per contact
- Termination: Press-fit
- Misalignment: Longitudinal +- 2,00 mm
Latitudinal: +- 2,50 mm
- Inclination: ± 2 degree
- PCB plated through hole
Drilled hole: 0,69 to 0,72 mm diameter
Cu: 25 µ min.
Sn: 5-15 µ min.
- Plated hole: 0,55 to 0,65 mm diameter

Materials

- Insulator: Glass filled Polyester UL 94 V-0
- Contact: Phosphor bronze
- U/L file E149341, Electric rating: 250V, 2A
- Operating temperature. -55°C to + 125°C
- RoHS compliant

Electrical Features

- Current rating: 1,5 A at 20 °C. 1 A at 70° C
- Contact resistance: 0,20 milliohms max.
- Insulation resistance: 104 Megohms min.
- Test voltage: 750 Vrms



2.00 mm. HARD METRIC CONNECTORS



Ordering and part numbers.

Ordering Information:

SERIE- T- XXX- DD- PL- L- S

1 2 3 4 5 6 7

1. Connector Series

2. (T) Contact Plating

- T = 3. Class 3. Gold flash plating
- T = 4. Class 2. 12 μ Pd/Ni + 2 μ Au (Recommended)
- T = 5. Class 1. 25 μ Pd/Ni + 2 μ Au

3. (XXX) Number of circuits

- XXX. Number of circuits (Check your serie)

4. (DD) Contact arrangement

- DD. Differents options available (Check your serie)

5. (PL) Pin Length

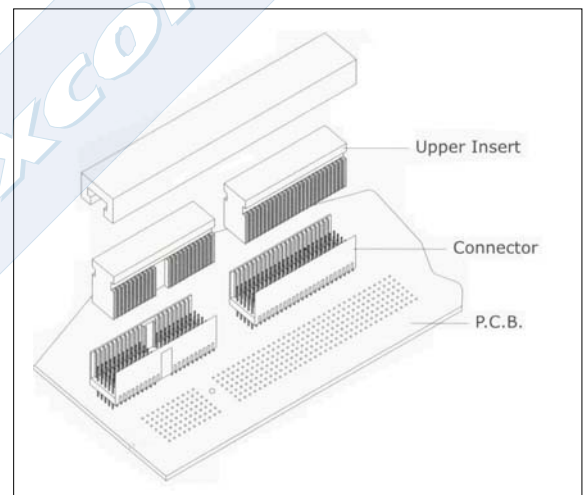
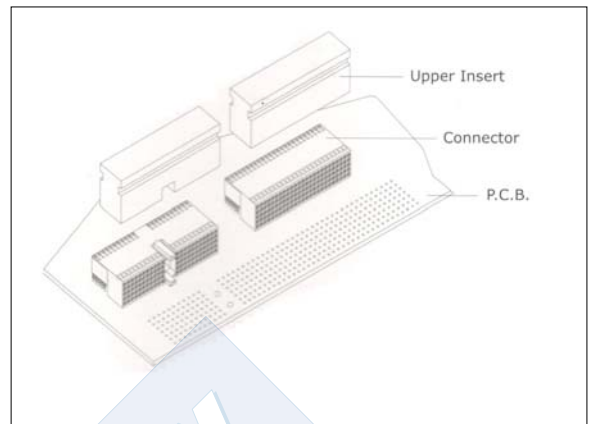
- 1A. Dim. 3.70 / 8.20 mm.
*Check Table for all measures Options
- 6C. Dim. 16.00 / 11.20 mm.

6. (L) Locating Pegs

- 0. Without pegs
- 1. With pegs

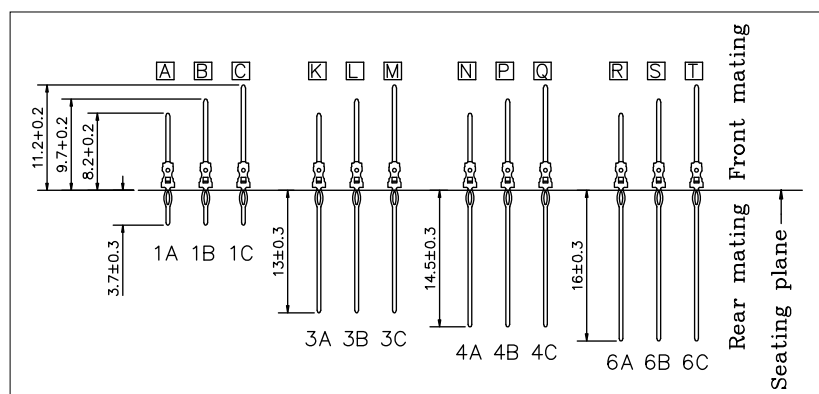
7. (S) Shielding

- 0. Not shielding
- 1. Shielding (Row Z and F)



CONNECTORS SERIES	
FEMALE	MALE
A000	A001
AB50	AB51
AB20	AB21
AB90	AB91
B250	B251
B220	B221
B190	B191
C000	C001
L000	L001
M000	M001
N000	N001

(PL) *Pin Length Options:



2.00 mm. HARD METRIC CONNECTORS



Ordering and part numbers.

Overview

Apfel 2.0mm HARD METRIC CONNECTOR MODULES comply with international IEC 917 and IEC 61076-4-101 standards. The connector system is designed and manufactured to meet the emerging trend of higher density and faster signal transmission in the electronic industries and ideal for application in the telecommunication, industrial PC.

All products are ROHS compliant

Type A Connectors	Type AB Connectors	Type B Connectors
Type C Connectors	Type L Connectors	Type M Connectors
Type N Connectors	Shrouds	Coding keys & Shielding Covers

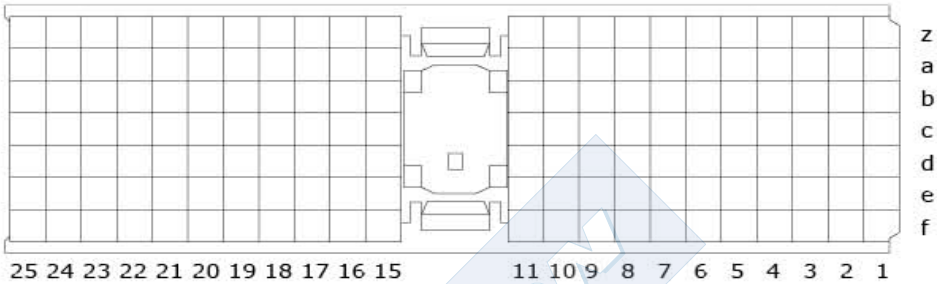
2.00 mm. HARD METRIC CONNECTORS



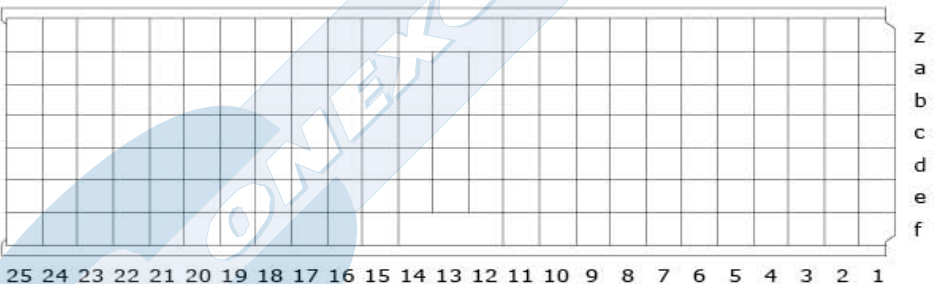
Ordering and part numbers.

Fill in diagram below with designated contact types required. Unfilled positions to be left blank.

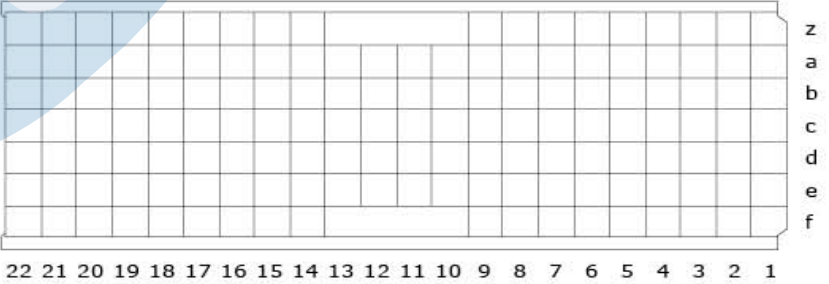
Type A Connector



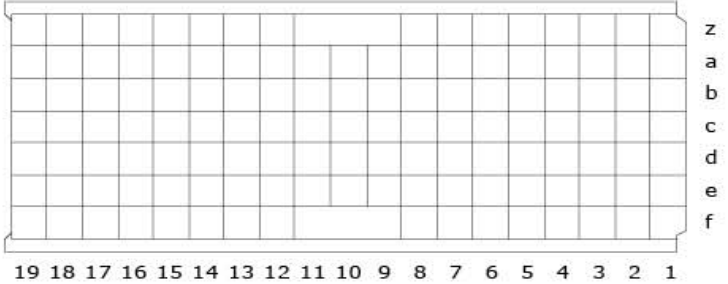
Type AB25 Connector



Type AB22 Connector



Type AB19 Connector

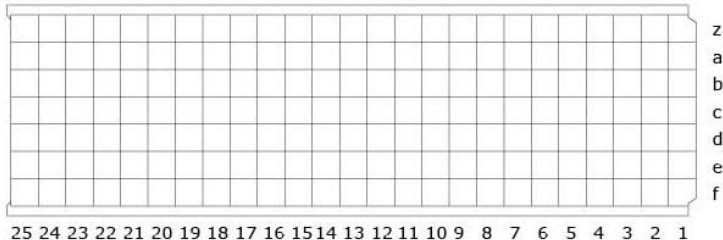


2.00 mm. HARD METRIC CONNECTORS

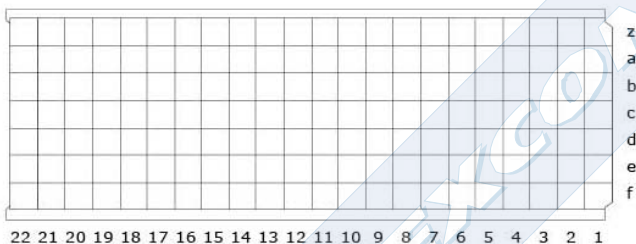


Ordering and part numbers.

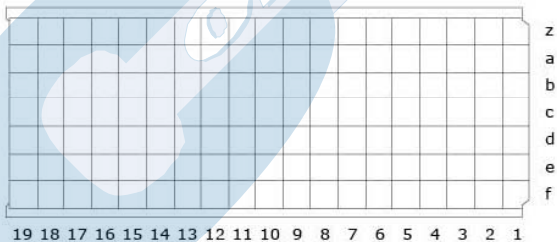
Type B25 Connector



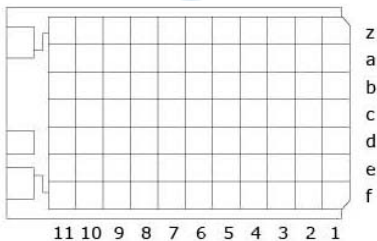
Type B22 Connector



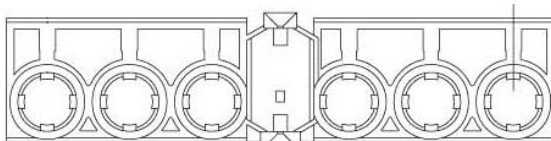
Type B19 Connector



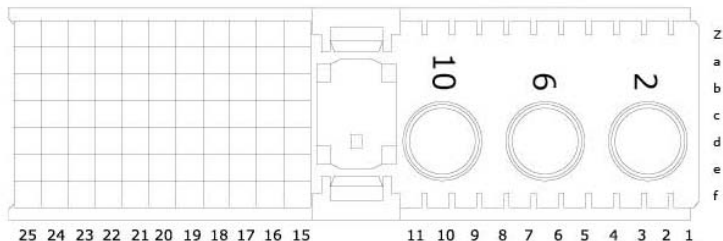
Type C Connector



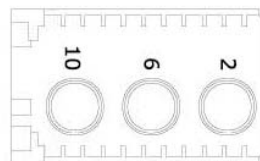
Type L Connector



Type M Connector



Type N Connector

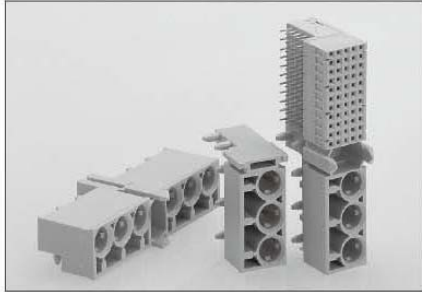


2.00 mm. HARD METRIC CONNECTORS

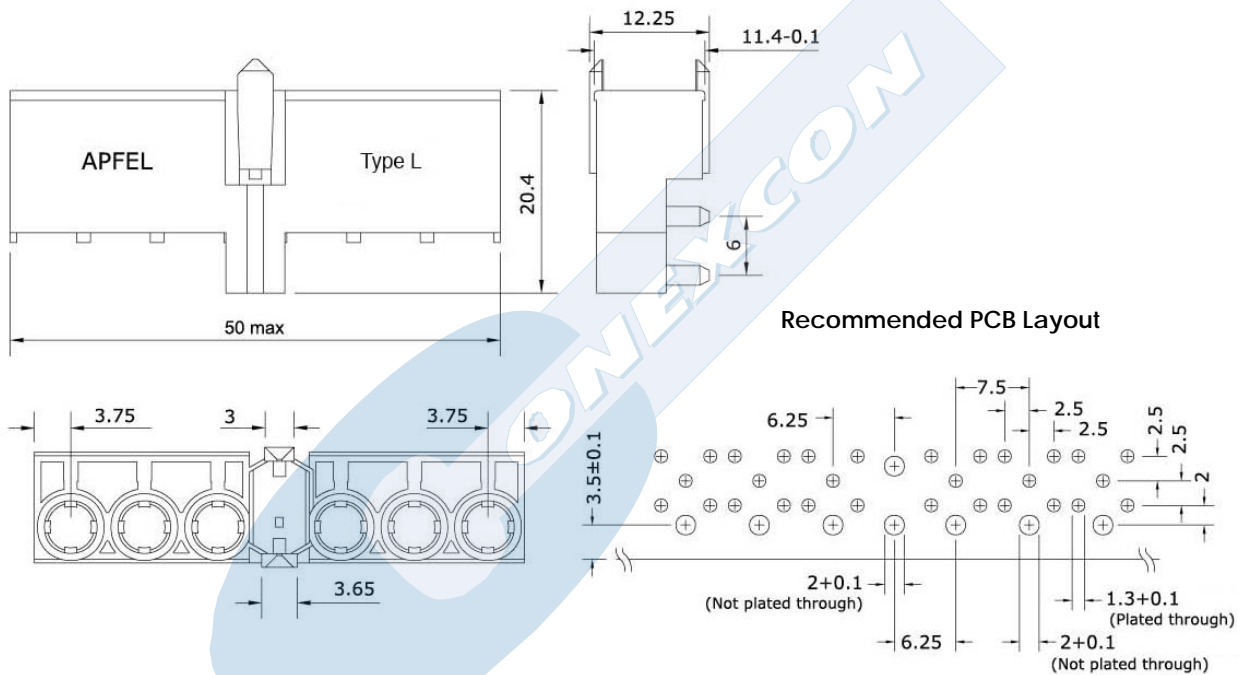


L000 SERIES. Right Angle Female Type L/M/N Connectors for Free Boards .

Product Information:



These connectors have 3 or 6 cavities for high current, coaxial or fiber optic contacts. The MPC on type L and M provides alignment guides and accepts optional coding keys. The half-size type N also provides with guiding and polarized pegs.



Dimensions shown are for reference purpose only. All dimensions are in millimeters unless otherwise specified.

Ordering Information:

L000- **T-** **006-** **1-** **1-** **S**
 1 2 3 4 5

1. Connector Series

2. (T) Contact Plating

- T = 3. Class 3. Gold flash plating
- T = 4. Class 2. 12 μ Pd/Ni + 2 μ Au (Recommended)
- T = 5. Class 1. 25 μ Pd/Ni + 2 μ Au

5. (S) Shielding

- 0. Not shielding
- 1. Shielding (Row Z and F)

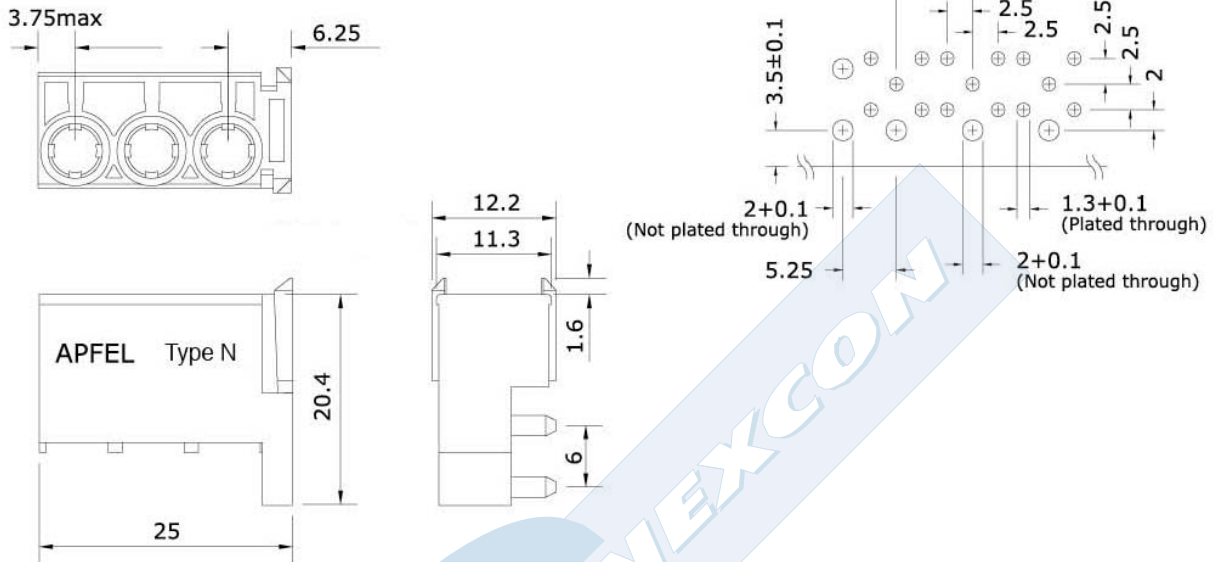
2.00 mm. HARD METRIC CONNECTORS



N000 SERIES. Vertical Male Type N Connectors for Fix Boards.

Product Information:

Recommended PCB Layout



Dimensions shown are for reference purpose only. All dimensions are in millimeters unless otherwise specified.

Ordering Information:

N000- T- 003- 1- 1- S

1 2 3 4 5

1. Connector Series

2. (T) Contact Plating

- T = 3. Class 3. Gold flash plating
- T = 4. Class 2. 12 μ Pd/Ni + 2 μ Au (Recommended)
- T = 5. Class 1. 25 μ Pd/Ni + 2 μ Au

5. (S) Shielding

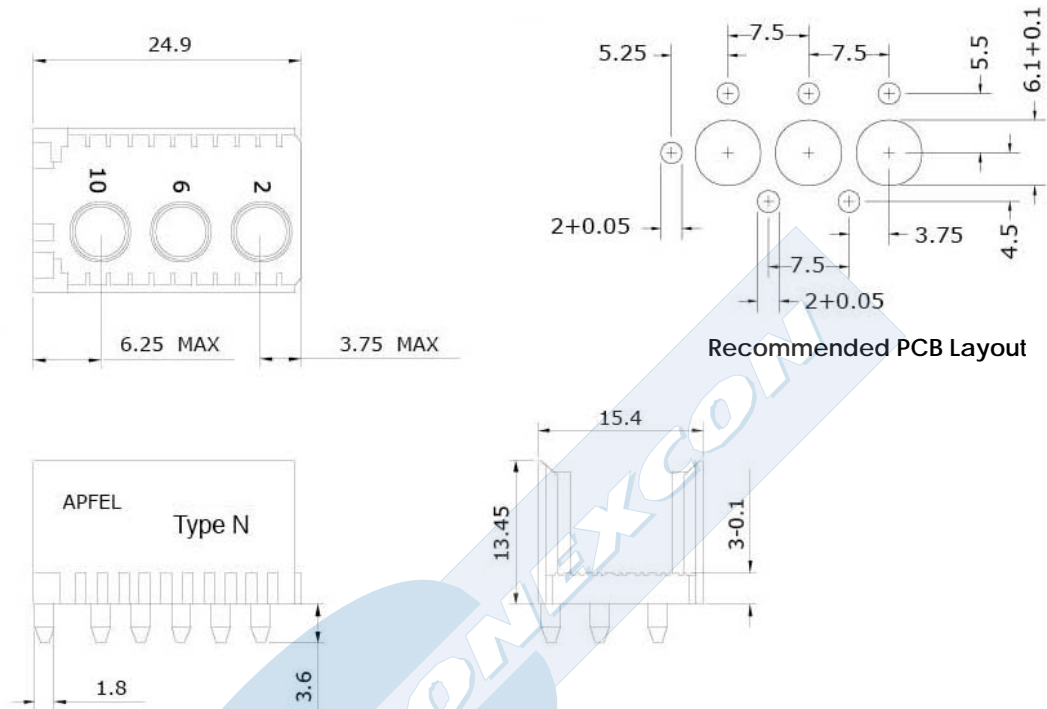
- 0. Not shielding
- 1. Shielding (Row Z and F)

2.00 mm. HARD METRIC CONNECTORS



N001 SERIES. Vertical Male Type N Connectors for Fix Boards.

Product Information:



Dimensions shown are for reference purpose only. All dimensions are in millimeters unless otherwise specific

Ordering Information:

N001- T- 003- 1- 1- S

1 2 3 4 5

1. Connector Series

2. (T) Contact Plating

- T = 3. Class 3. Gold flash plating
- T = 4. Class 2. 12 μ Pd/Ni + 2 μ Au (Recommended)
- T = 5. Class 1. 25 μ Pd/Ni + 2 μ Au

5. (S) Shielding

- 0. Not shielding
- 1. Shielding (Row Z and F)