

250 SERIES Shielded connectors



- High reliability 2 mm pitch connector.
- Mixed layout with high frequency (up to 6 GHz) and high power (up to 20 Amps) contacts.
- Board to board, board to wire, wire to wire connectors
- Built-in jackscrews
- RoHs compliant
- Temperature range -55°C / +125°C
- Backshell on request

L.F. contacts specifications

Materials	
Male contacts	Copper alloy gold plated (tinned on p.c.b connection side)
Female contacts	Outer : copper alloy, tin or gold plated Inner : beryllium copper, gold plated
Insulator	PEEK : UL 94 V0
Shell	Aluminium alloy

Electrical characteristics	
Working voltage	240 VDC (sea level)
Nominal current	3A max at 25° C
Contact resistance	10 mΩ max.
Insulation resistance	1000 MΩ min.

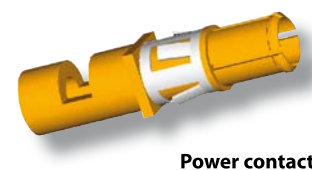
Mechanical characteristics	
Mating/unmating force	0.2 to 2.2 N per contact
Contact retention	10 N
Mechanical operations	> 500 cycles

Coax & power contacts

Materials	
Spring loaded parts	Beryllium copper, gold plated
Other metallic parts	Copper alloy gold plated
Insulator	PTFE
Retaining clip	Beryllium copper nickel plated

Electrical characteristics	
Contact resistance	< 6 mΩ max.
Proof voltage	1000 VAC RMS
Working voltage	180 VAC RMS under 500 mA
Insulation resistance	10 ⁶ MΩ min. (250 VAC RMS)
Coaxial contacts	
Impedance	50 Ω
VSWR	< 1.35
Frequency range	6 GHz (according to cable)
Power contacts	
Wire AWG 12	20 A
Wire AWG 14	15 A
Wire AWG 16	10 A
Wire AWG 18	5 A

Mechanical characteristics	
Endurance	500 cycles
Insertion force	0.60 to 5 N per contact
Withdrawal force	0.50 to 2 N per contact
Unmating security	1.30mm min.
Contact substitution	5 operations



HOW TO ORDER

INSULATOR BODY
With L.F. contacts

INSULATOR BODY
With L.F. and special contacts

SERIES CODE

GENDER
M : male - F : female

TOTAL NO. OF L.F. contacts
10, 18, 26, 34, 42

TERMINATION STYLE	
Y7	Straight PC contact (Male = 3.2mm tail ; Female = 3.1mm tail)
Y9	Straight PC contact (Male = 4.6mm tail ; Female = 4.5mm tail)
C1	Crimp for wire (24-28 AWG)
D1	Crimp for wire (22 AWG)

JACKSCREW *	
A, B, C, H	For female connector
P, Q, Y, Z	For male connector
0	Without jackscrew

250 F 10 Y1 C
250 F 10 Y1 C 32 35

SPECIAL CONTACTS	
10 to 36	Coaxial contacts
55 to 76 & 90	Power contacts
00 or omit	No special contacts

TOTAL NO. OF SPECIAL CONTACTS	
0 to 9	With L.F. and special contacts (show looking on to mating face) - Male : Number of cavities on right and number of cavities on left - Female : Number of cavities on left and number of cavities on right
00 or omit	No special contacts

* See to catalog Connectors 2MM Series - pages 96 to 100

LAYOUT TABLE							
COAX AND POWER CONTACTS							
	0	1	2	3	4	5	6
L.F. CONTACTS	10	6	-	-	-	-	-
	18	14	10	6	-	-	-
	26	22	18	14	10	6	-
	34	30	26	22	18	14	10
	42	38	34	30	26	22	18