

Number of contacts 9, 15, 25, 37, 50
UL recognized

Working current
see current carrying capacity chart
Stamped contacts 6.5 A max.

Test voltage $U_{r.m.s.}$ 1 kV

Clearance and creepage ≥ 1.0 mm

Contact resistance ≤ 10 m Ω
Insulation resistance $\geq 10^{10}$ Ω

Temperature range -55 °C ... + 125 °C
The higher temperature limit includes the local ambient and heating effect of the contacts under load

Terminations Recommended PCB through holes

		Recommended PCB through holes	
		Signal pin	Grounding pin
Tin-lead plated PCB	Hole	1.15 ^{-0.03}	3.15 ^{±0.025}
	Cu	25-75 μ m	25-75 μ m
	Sn	5-15 μ m	4-10 μ m
	Plated hole	0.94-1.09 mm	3.0-3.15 mm

Chemical tin-plated PCB	Hole	1.05 ^{-0.03}	3.15 ^{±0.025}
	Cu	25-50 μ m	25-50 μ m
	Sn	0.8-1.0 μ m	0.8-1.0 μ m
	Plated hole	1.00-1.10 mm	3.0-3.15 mm

Au / Ni plated PCB	Hole	1.15 ^{-0.03}	3.15 ^{±0.025}
	Cu	25-50 μ m	25-50 μ m
	Ni	3-7 μ m	4-7 μ m
	Au	0.05-0.12 μ m	0.05-0.12 μ m
	Plated hole	1.00-1.10 mm	3.0-3.15 mm

Silver plated PCB	Hole	1.15 ^{-0.03}	3.15 ^{±0.025}
	Cu	25-50 μ m	25-50 μ m
	Ag	0.1-0.3 μ m	0.1-0.3 μ m
	Plated hole	1.00-1.10 mm	3.0-3.15 mm

OSP copper plated PCB	Hole	1.15 ^{-0.03}	3.15 ^{±0.025}
	Cu	25-50 μ m	25-50 μ m
	Plated hole	1.00-1.10 mm	3.0-3.15 mm

PCB board thickness: ≥ 1.6 mm

Materials
Mouldings and hoods Liquid Crystal Polymer (LCP)
UL 94-V0

Contacts Copper alloy

Contact surface
Contact zone selectively plated
acc. to performance level¹⁾

Metal shell Plated steel

Insertion and withdrawal force

Connector on P.C.B.

Press-in without grounding pins

- insertion max. per contact: 120 N
- withdrawal min. per contact: 20 N

Press-in with grounding pins

- insertion max. per grounding pin: 250 N
- withdrawal min. per grounding pin: 30 N

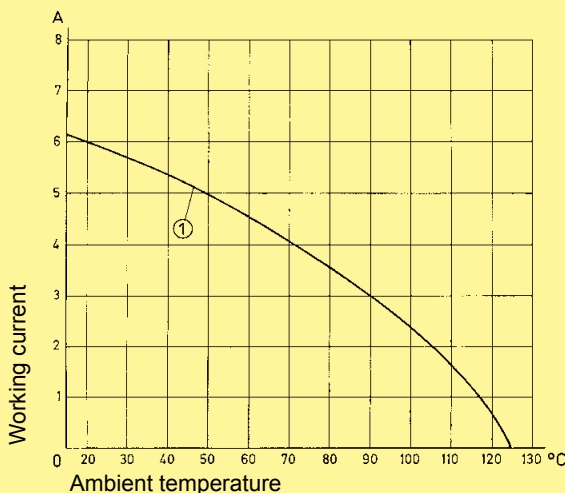
Mating force
9 way ≤ 30 N
15 way ≤ 50 N
25 way ≤ 83 N
37 way ≤ 123 N
50 way ≤ 167 N

Current carrying capacity

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.

The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

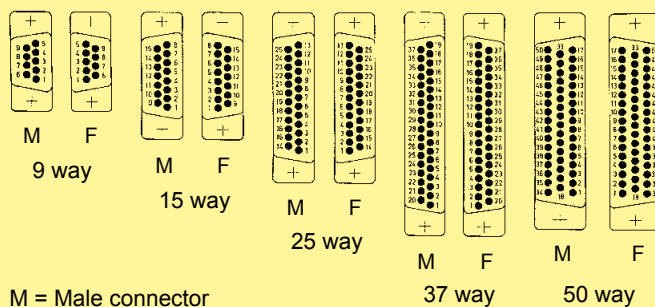
Control and test procedures according to DIN IEC 60 512.



Example: 25 way connector

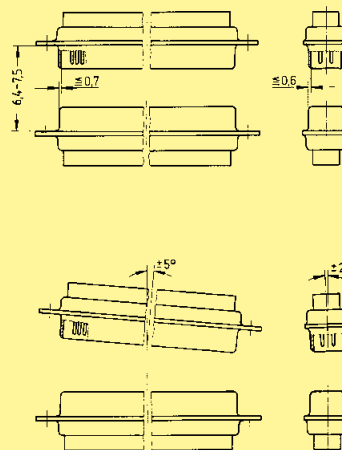
① Stamped contacts

Contact arrangement View from termination side



M = Male connector
F = Female connector

Mating conditions as per DIN 41 652



¹⁾ Performance level 3, 50 mating cycles, no gas test

Performance level 2 as per CECC 75 301-802, 250 mating cycles, 4 days 4 mixed gas test – IEC 60 512

Performance level 1 as per CECC 75 301-802, 500 mating cycles, 10 days 4 mixed gas test – IEC 60 512