I/O connectors

Number of contacts	20, 26, 50, 68, 100
Pitch	1.27 mm
Working current	1 A
Working voltage	240 V ~
Test voltage $U_{r.m.s.}$	750 V
Contact resistance	≤ 30 mΩ
Insulation resistance	≥ 10^3 MΩ
Temperature range	-55 °C … + 105 °C

Terminations

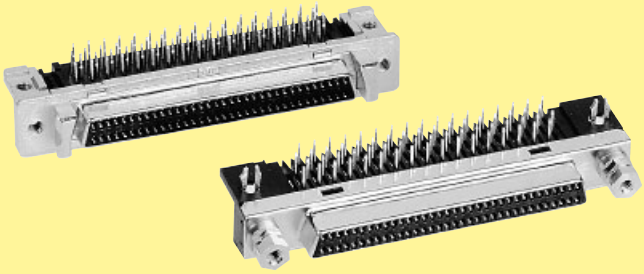
Solder pins	Straight for pcb holes min. Ø 0.74 mm Angled 90° for pcb holes min. Ø 0.74 mm
Insulation displacement	Discrete wire AWG 28 to AWG 30 max. section: 0.089 mm² min. section: 0.050 mm² Insulation Ø min. 0.50 mm Ø max. 0.90 mm Flat cable AWG 30 pitch 0.635 mm

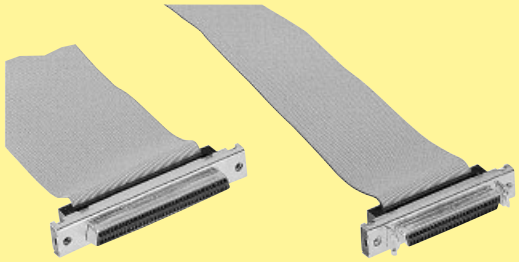
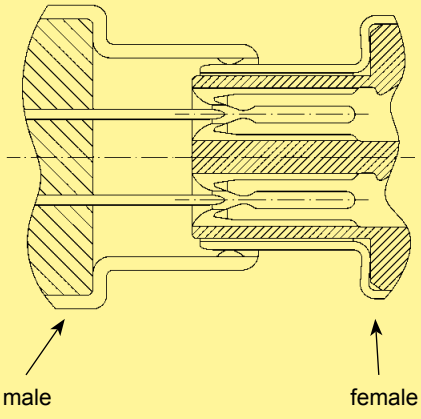
Materials

Moulding	Thermoplastic resin glass-fibre filled UL 94-V0
Contacts	Copper alloy

Contact surface

Contact zone	S4 = 0.76 µm (30 µinch) Au or PdNi equivalent
Metal shell	Die cast zamac or stamped steel, nickel-plated





Pin and socket
with blade and fork contact design