Microcon range

Painton Microcon printed circuit connectors are suitable for boards punched to the standard 0·1 in (2·5 mm) pitch. Plugs are available with the contact blades either at 90° or in line with, the solder tags for horizontal or vertical mounting, the mating sockets being respectively mounted on the associated chassis giving a plug-in facility to the board, or fitted with a cover and connected to a free cable. The inner surfaces are sprayed with an insulating coating to obviate short circuits.

The plugs may be fixed to the board by either passing the solder tags through standard 0·052 in (1·3 mm) holes, flattening them to ensure mechanical rigidity and then dip soldering, or by a bracket at each end, for which tapped metal inserts are provided. A further version may be bolted directly to the board through transverse fixing holes.

All mouldings are of a nylon filled phenolic in two halves to allow insertion of the wire retaining loops and removal of any plug contacts for polarising purposes. Polarised versions are available.

Dimensions in inches and millimetres
obsolete part numbers shown in brackets.

Specification

Working voltage	350V D.C. or A.C. peak at 70 °C 250V D.C. or A.C. peak at 100 °C
Current rating	5 amp D.C. or A.C. r.m.s. at 20 °C 3 amp D.C. or A.C. r.m.s. at 70 °C 1 amp D.C. or A.C. r.m.s. at 100 °C
Maximum operating temperature	100 °C
Average contact resistance	0·002 Ω
Maximum contact resistance	0·003 Ω
Flashover voltage	4kV for plugs with 90° solder tags 5kV for plugs with in line solder tags and for sockets
Insulation resistance	Greater than 10^4 MΩ (10^{10} Ω) initially. Greater than 10^3MΩ (10^9Ω) after H5 climatic exposure