

SINGLE IDC CONTACT

18-24 AWG

201-01-124

1. SPECIFICATION DISTRIBUTION

No restrictions for issue

2. SCOPE

This specification contains the application notes for the 9175, 9176, and 9177 IDC connectors.

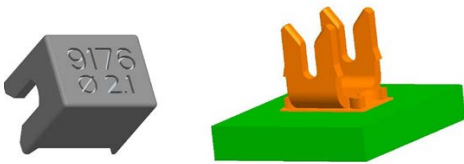
3. RELATED DOCUMENTS

00-9175-00X-00X-X06 - STANDARD IDC CONNECTOR 26-28AWG
 00-9176-00X-0XX-X06 - STANDARD IDC CONNECTOR 18-24AWG
 60/70-9176-001-5XX-XXX - SINGLE CONTACT IDC 18-24AWG
 60/70-9176-001-4XX-XXX - SINGLE CONTACT IDC 22-28AWG
 00-9177-00X-0XX-X06 - STANDARD IDC CONNECTOR 14-20AWG

Note: The connectors in the product series are available in standard black colour (white and other colours are special order). The colours used in this document are for illustration purposes only.

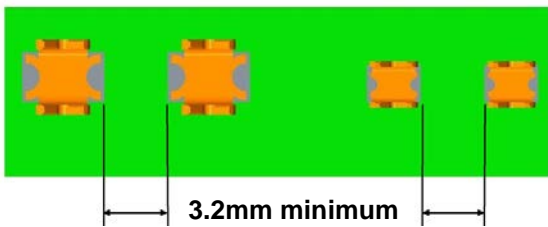
4. 9176 SINGLE CONTACT IDC

4.1. 9176 SINGLE CONTACT COMPONENTS



Available as a single contact for 18AWG to 28AWG wires.
 9176-400 standard cap and tooling for insulation diameters 0.75mm to 1.50mm.
 9176-500 standard cap and tooling for insulation diameters 1.10mm to 1.60mm and 1.60mm to 2.10mm.
 The plastic cap is optional.

4.2. 9176 SINGLE CONTACTS - UL REQUIREMENTS FOR PAD SPACING

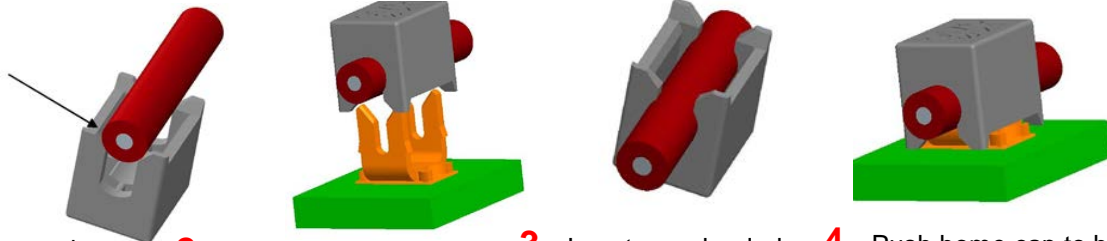


UL approval based on 3.2mm gap between pads.
 Minimum contact centre spacing 9176-400 contacts 7.1mm.
 Minimum contact centre spacing 9176-500 contacts 7.5mm.

For non UL applications the gap may be reduced at the customers discretion depending on the voltage applied.

4.3. 9176 SINGLE CONTACT IDC METHOD – WITH CAP – NO TOOLS (FLAT ROCK TOOLING)

Wire to be flush with or proud of moulding



1. Cut and locate wire to cap slot
2. Push wire into cap slot (slot grips wire)
3. Locate pre-loaded wire/cap to IDC contact
4. Push home cap to be flush with board surface using flat rock tooling in hand/air press

Please note that the PCB should be supported directly under the wires being terminated.

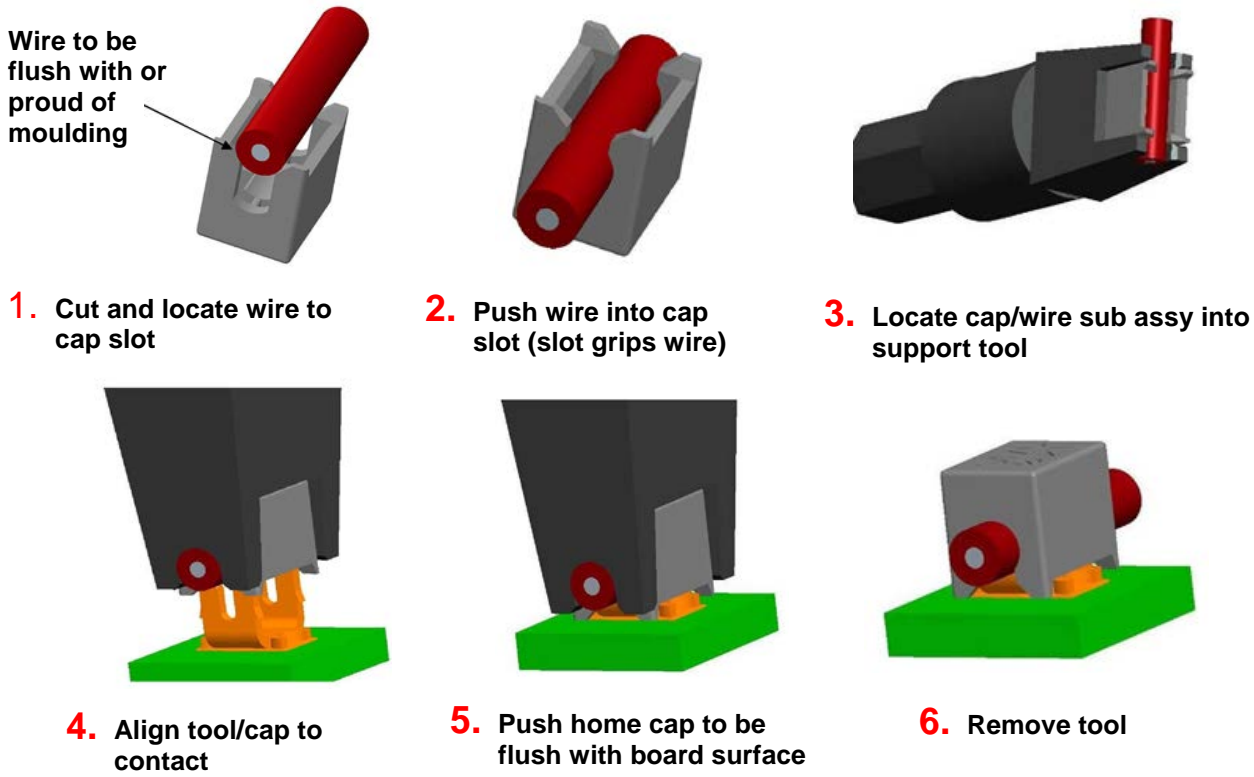
4.4. 9176 SINGLE CONTACT IDC – WITH CAP – WIRE INSERTION ASSIST TOOLS



Wire/Insertion support tool insert
 One tool supports IDC wire insertion block for all sizes of wire
 Select tool for -400 or -500 series

Universal Handle

4.5. 9176 SINGLE CONTACT IDC METHOD – WITH CAP – WITH TOOL ASSIST

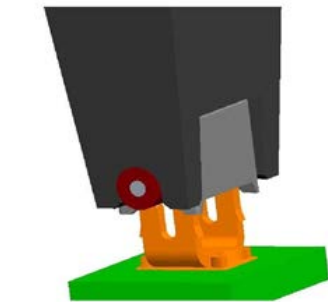


Wire to be flush with or proud of moulding

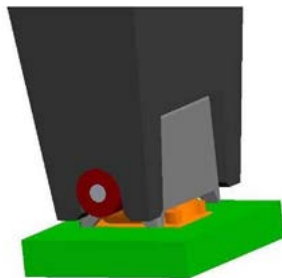
1. Cut and locate wire to cap slot

2. Push wire into cap slot (slot grips wire)

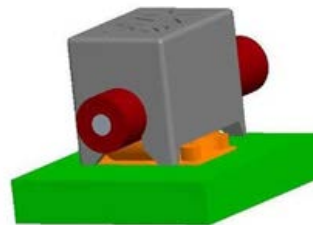
3. Locate cap/wire sub assy into support tool



4. Align tool/cap to contact



5. Push home cap to be flush with board surface



6. Remove tool

Typical insertion force is approximately 175N per wire for -400 series and 225N per wire for -500 series. This is dependent on the wire gauge, conductor strands and insulation material.

Please note that the PCB should be supported directly under the wires being terminated.

4.6. 9176 SINGLE CONTACT IDC – CONTACT ONLY – WIRE INSERTION TOOLS

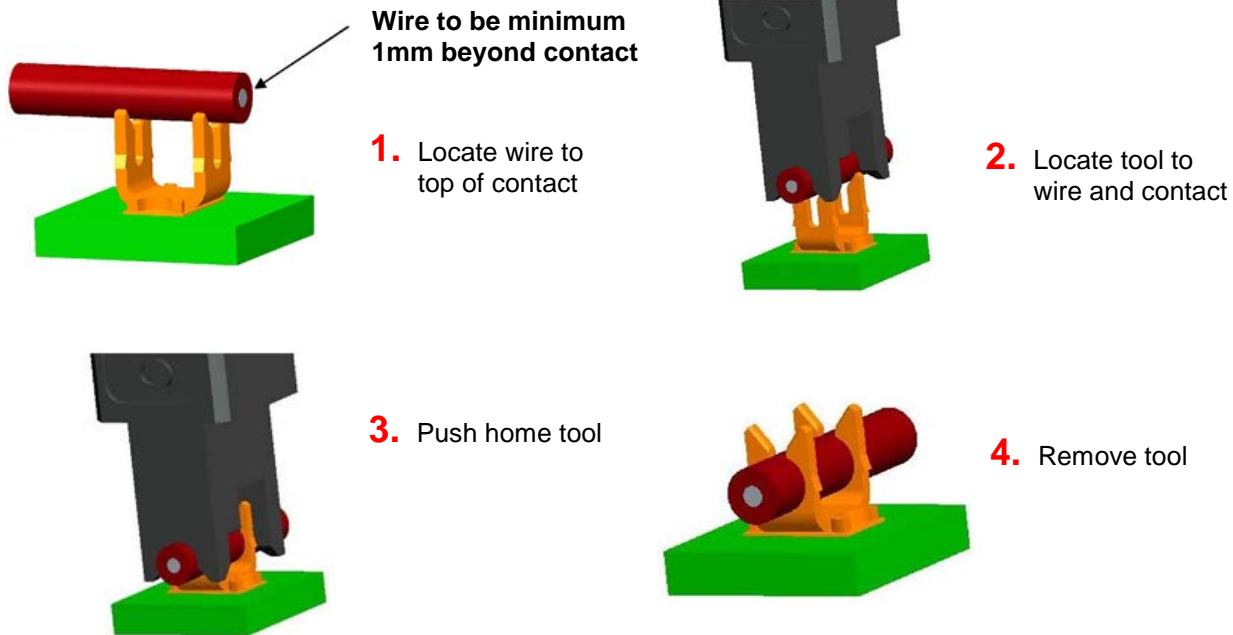


Plastic termination tool for low-medium volumes (metal versions available for higher volume)
 To suit various insulation diameters up to 2.1mm for 18AWG to 28AWG wires
 Select tool for -400 or -500 series



Universal Handle

4.7. 9176 SINGLE CONTACT IDC METHOD – CONTACT ONLY



Typical insertion force is approximately 175N per wire for -400 series and 225N per wire for -500 series. This is dependent on the wire gauge, conductor strands and insulation material.

Please note that the PCB should be supported directly under the wires being terminated.