

STANDARD IDC 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

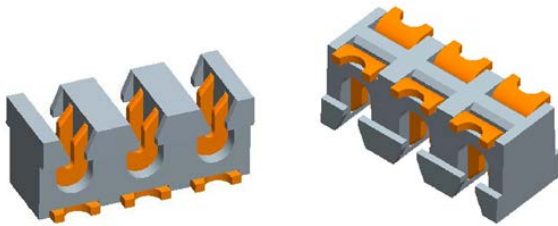
60/70-9176-001-4XX-XXX - SINGLE CONTACT IDC 22-28AWG

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 CONNECTOR 18-24AWG

4.1. 9176 CONNECTOR



Available in 1way, 2way and 3way sizes for 18AWG to 24AWG wires.

4.2. 9176 STANDARD HAND WIRE INSERTION TOOLING

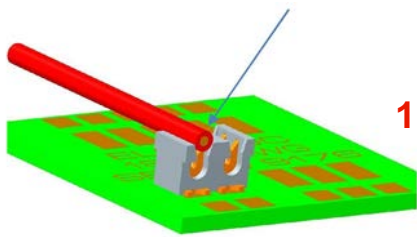


Universal Handle

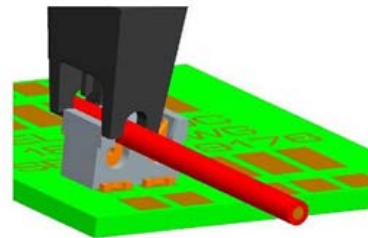
Plastic termination tool for low-medium volumes (metal versions available for higher volume)

To suit insulation diameters up to 1.6mm and 2.1mm for 18AWG to 24AWG wires

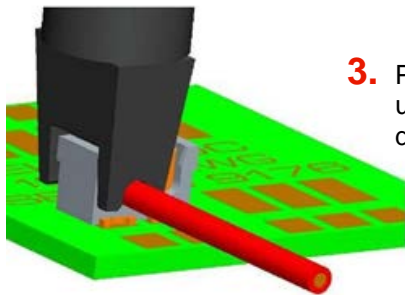
4.3. 9176 WIRE INSERTION METHOD – SINGLE WIRE BY HAND



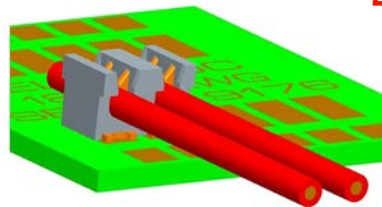
1. Cut wire and position over contact slot



2. Locate end of the tool over wire and align with slot in connector



3. Push down on tool until wire is pushed down to bottom of slot

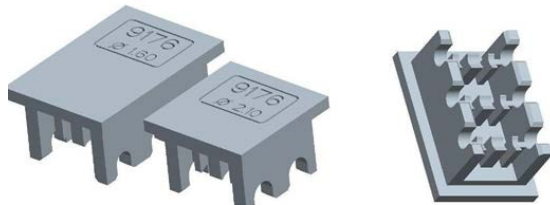


4. Remove tool from connector and repeat as necessary

Typical insertion force is approximately 200N to 250N per wire, 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.

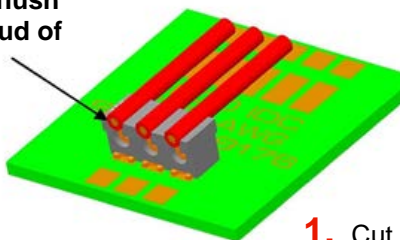
4.4. 9176 MASS TERMINATION INSERTION TOOLING



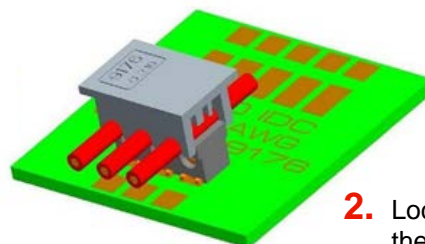
Metal insertion blocks for 2 & 3way connectors
To suit insulation diameters up to 1.6mm and 2.1mm for 18AWG to 24AWG wires. In order to achieve the correct insertion depth it is important to match the insulator diameter and tool size a close as possible.

4.5. 9176 WIRE INSERTION METHOD – MASS TERMINATION

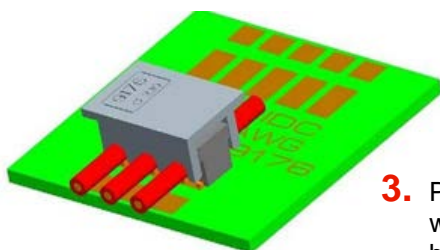
Wire to be flush with or proud of moulding



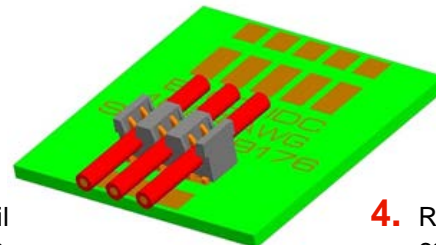
1. Cut wires and position over contact slots



2. Locate the tool over the wires and align with slots in connector



3. Push down on tool until wire is pushed down to bottom of slot



4. Remove block from connector and wires

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

4.6. 9176 CAP ACCESSORY



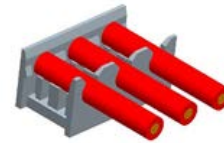
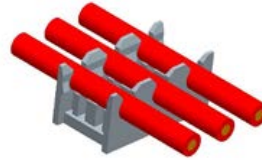
9176 Cap: Available in 1way, 2way and 3way with through wire and wire stop versions. Sizes 1.1-1.6mm and 1.6-2.1mm wire insulation diameters for 18AWG to 24AWG wires.

4.7. 9176 CAP ASSEMBLY

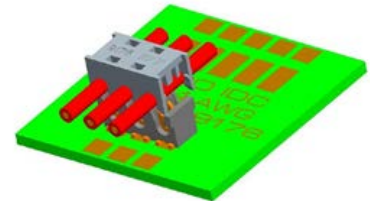
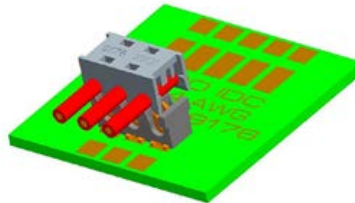
Through Wire Version

Wire Stop Version

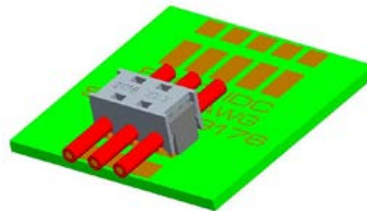
1. Push wires into cap slots (slots grip wires)



2. Offer the pre-assembled wire/cap assembly above the connector



3. Push down on cap until clips latch on the connector



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

4.8. 9176 CAP ASSEMBLY TOOL – 1 WAY



Hand tool to insert standard single cap. One tool supports all sizes of wire.

4.9. 9176 CAP ASSEMBLY – 1 WAY

