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. 9175 CONNECTOR 26-28AWG
4.1. 9175 CONNECTOR
Available in 2way and 3way sizes for 26AWG and 28AWG wires.

4.2. 9175 STANDARD HAND WIRE INSERTION TOOLING
Plastic termination tool for low-medium volumes (metal versions available for higher volume)
Maximum insulation diameter 1mm suitable for 26-28AWG wires
4.3. 9175 WIRE INSERTION METHOD – SINGLE WIRE BY HAND

1. Cut and position wire over contact slot

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

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

4. Repeat for all wires as necessary

5. Remove tool from connector and wire

Wire to be flush with or proud of moulding

Typical insertion force is approximately 70N per wire, this is dependent on the wire gauge, number of conductor strands and insulation material.

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

4.4. 9175 MASS TERMINATION INSERTION TOOLING

Metal Insertion blocks for 2 & 3 way connectors
Maximum insulation diameter 1mm for 26AWG and 28AWG wires

4.5. 9175 WIRE INSERTION METHOD – MASS TERMINATION

1. Cut and position wires to all contact slots

2. Locate mass termination block over wires and connector

3. Push down on termination block using a hand/air press

4. Remove block from connector and wires

Wire to be flush with or proud of moulding

Please note that the PCB should be supported directly under the wires being terminated.
4.6. 9175 CAP ASSEMBLY

9175 Cap: Available in 2way and 3way with through wire and wire stop options.

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

2. Offer the pre-assembled wire/cap assy 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.