CLARKE & SEVERN ELECTRONICS

Solutions that Fit - From One Source

Provide Provide Arrange

Archer Connectors – M50 IDC Specification

- Email sales@clarke.com.au - www.clarke.com.au - webshop www.cseonline.com.au

1.27mm pitch cable-to-board connectors, with latching and polarization.

Materials

Housings

PCB Connectors: IDC Cable Connectors:

Ph +612 9482

Contacts: Finish

M50-380: Others: LCP, UL94V-0 PBT, UL94V-0 Copper Alloy

Gold on contact area Gold on contact area, Tin on tails

Electrical

Current

M50-330, 91X: M50-355, 365: M50-380, 90X:

Voltage proof M50-90X/91X: Others:

Contact resistance:

Insulation resistance M50-90X, 91X: Others: 1A per contact 1.75A per contact 0.5A per contact

300V DC for 1 minute 1,000V AC for 1 minute 30m0 max

5MΩ min 1,000MΩ min

Mechanical

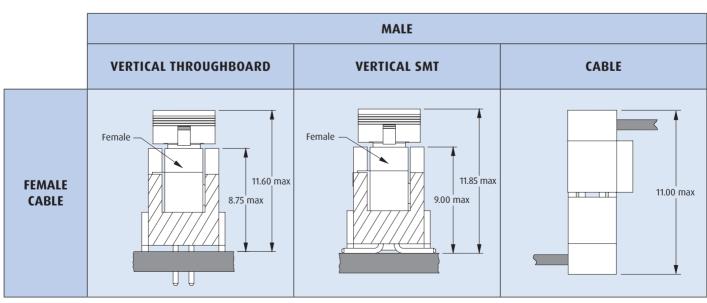
Durability: Insertion force (max): Withdrawal force (min): 100 operations 1.0N per contact 0.15N per contact

Environmental

Operating temperature PCB Connectors: IDC Cable Connectors: Cable Assembly:

Solderability: Soldering heat resistance: -55°C to +125°C -40°C to +105°C -20°C to +105°C 245°C for 5 seconds 260°C for 10 seconds

Mating Profiles



All dimensions in mm.

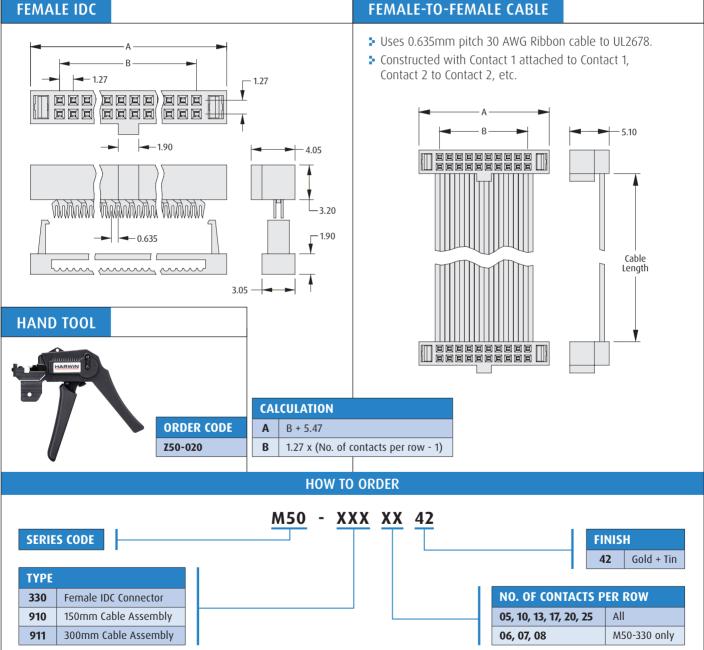


Archer Connectors – M50 IDC

Female Cable Connector & Cable Assembly

- Suitable for use with male vertical latching connectors shown on the following page.
- **DC** connection for fast termination of multiple contacts.
- Polarized to prevent mis-mating.
- Secure cable retention with positive latching to header.
- Standard cable assembly lengths from stock.
- Instruction sheet for Hand Tool is available at www.harwin.com/instructions.

HARWIN



All dimensions in mm.



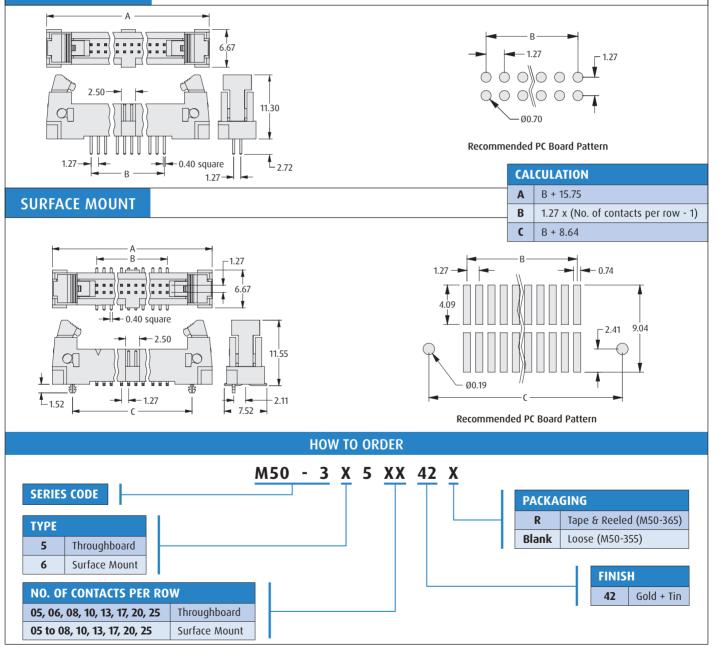
Archer Connectors – M50 IDC

Male Vertical Latching Connectors

- Suitable for use with female cable connectors shown on previous page.
- Surface mount option has locking pegs for location and retention.
- Shrouded for robust pin protection.
- Polarized to prevent mis-mating.
- Secure, positive latch & ejection system.
- Tape and Reel packaging option includes Pick and Place cap for automated assembly.

THROUGHBOARD





All dimensions in mm.

HARWIN

Archer Connectors – M50 IDC

Male Cable Connector & Cable Assembly

- Male transitional cable connector suitable for soldering directly to PCB, permits cost effective cable to PCB attachment.
- **DC** connection for fast termination of multiple contacts.
- Suitable for mating with other sockets from the Archer range.
- Low profile, small footprint.
- Instruction sheet for Hand Tool is available at www.harwin.com/instructions.

MALE IDC

MALE-TO-FEMALE CABLE

RARARA RARARA

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Uses 0.635mm pitch 30 AWG Ribbon cable to UL2678. -3.00 Constructed with Contact 1 attached to Contact 1, Contact 2 to Contact 2, etc. 1.90 - A -- 0.635 3.20 -5.10 R – 0.40 square 3.10 1 77 Cable Length 1.27 HAND TOOL 3.10 -- 5 10 -R -1.27 ┌ 1.27 CALCULATION ó o o∥o o ó**⊥** Recommended **ORDER CODE** B + 5.47 Α PC Board Pattern 0 0 0 0 0 TQ Z50-030 B 1.27 x (No. of contacts per row - 1) Ø0.70 **HOW TO ORDER** M50 - XXX XX 42 **SERIES CODE** FINISH 42 Gold + Tin TYPE Male IDC Connector **NO. OF CONTACTS PER ROW** 380 150mm Cable Assembly 05, 10, 13, 17, 20, 25 All 901 902 300mm Cable Assembly 06, 07, 08 M50-380 only

All dimensions in mm.



