# Archer Connectors - M50 IDC Specification

### ⇒ Material

Mouldings: PC Tail, SMT: LCP, UL94V-0

IDC Cable: PBT, UL94V-0

Contacts: Copper Alloy

Finish: M50-380: Gold on contact area

Others: Gold on contact area,

Tin on tails

#### ⇒ Electrical

Current rating: M50-330, 91X: 1A per contact

M50-355, 365: 1.75A per contact M50-380, 90X: 0.5A per contact

Voltage proof: M50-90X/91X: 300V DC for 1 minute

Others: 1,000V AC for 1 minute

Contact resistance: 30 mΩ max

Insulation resistance: M50-90X, 91X:  $5M\Omega$  min

Others: 1,000  $\text{M}\Omega$  min

#### **:** Environmental

Operating temperature: PC Tail, SMT: -55°C to +125°C

IDC Cable Connectors: -40°C to +105°C

Cable Assembly: -20°C to +105°C

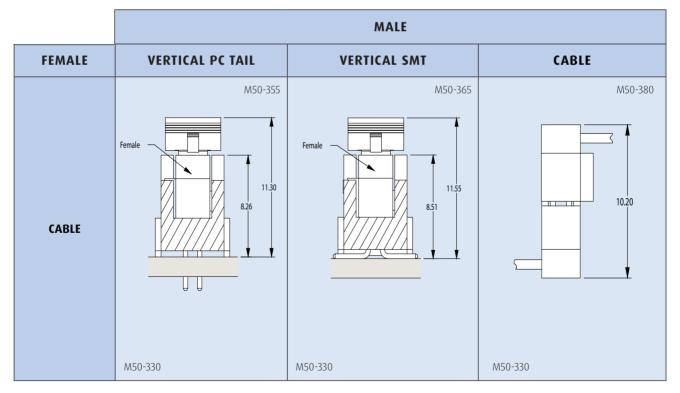
Solderability: 245°C for 5 seconds Soldering heat resistance: 260°C for 10 seconds

### > Mechanical

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

All preferred sizes of this range are held in stock. Check www.harwin.com for availability.

### **MATING PROFILES**





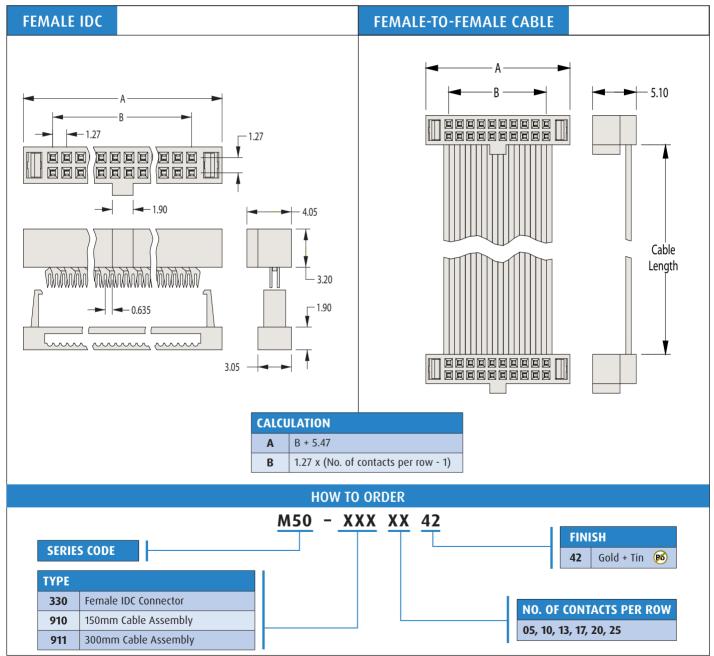
## Archer Connectors - M50 IDC



### Female Cable Connector & Cable Assembly

- ➤ Suitable for use with male vertical latching connectors shown on page 115.
- **▸** IDC Contact for high speed termination.
- ▶ Polarized to prevent mis-mating.
- Secure cable retention with positive latching to header.
- **>** Standard cable assembly lengths from stock.







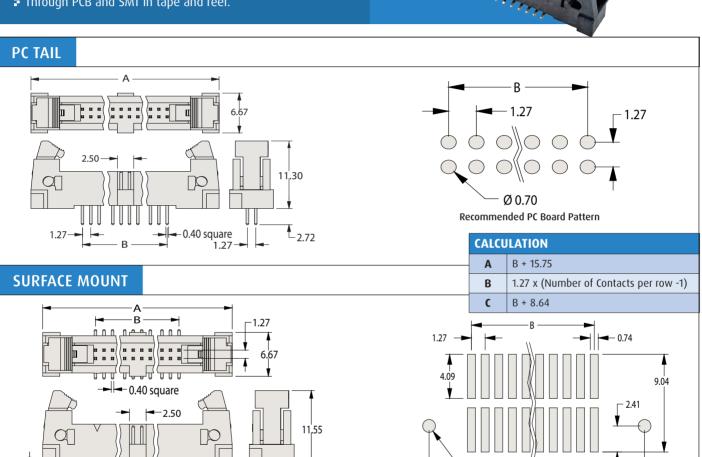
# Archer Connectors - M50 IDC ARCHER

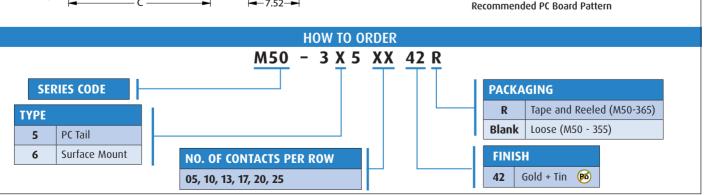


### **Male Vertical Latching Connectors**

- **▶** Suitable for use with female cable connectors shown on page
- Small footprint.
- Shrouded for robust pin protection.
- ▶ Polarized to prevent mis-mating.
- ▶ Secure, positive latch & ejection system.
- ▶ Through PCB and SMT in tape and reel.









## **Archer Connectors - M50 IDC**



## Male Cable Connectors & Cable Assembly

- ➤ Male transitional cable connector suitable for soldering directly to PCB, permits cost effective cable to PCB attachment.
- **▶** IDC Contact for high speed termination.
- **Suitable for mating with other sockets from the Archer range.**
- Low profile, small footprint.



