## ADAM TECH Adam Technologies, Inc.

# .100" IDC CARD EDGE

.100" [2.54] CENTERLINE FCE SERIES

#### **INTRODUCTION:**

Adam Tech FCE Series IDC Card Edge Connectors are designed to quickly and easily mass terminate .050" flat cable and mate directly with the plated fingers of a PCB as a card edge connector. Our superior designed crimp cap features guides to reduce occurrence of mis-mating and our specially engineered contacts provide strong wiping action and high retention to the PCB.

#### FEATURES:

Available with or without mounting ears Special "easy fit" cap reduces mis-mating High Retention to PCB Selectively Gold plated Bifurcated contacts

#### MATING OPTIONS:

Printed circuit boards with a thickness of .058" to .070"

#### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0 Insulator Color: Black, (Gray optional) Contacts: Phosphor Bronze

#### **Contact Plating:**

Gold flash (30 µin optional) over nickel underplate on contact area, tin over copper underplate on IDC area

#### **Electrical:**

Operating voltage: 250V AC max. Current rating: 1 Amp max. Contact resistance: 30 m $\Omega$  max. initial Insulation resistance: 1000 M $\Omega$  min. Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

PCB Insertion force: 0.406 lbs per contact max. With .062 thick board Withdrawal force: 0.312 lbs per contact min. With .062 thick board

Recommended wire size: 28 Awg stranded Cable retention: 28 lbs. min axial force per inch. Mating durability: 500 cycles min.

#### **Temperature Rating:**

Operating temperature: -40°C to +105°C

PACKAGING: Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File No. E224053 CSA Certified File No. LR1578596







### **ORDERING INFORMATION**

34

FCE

SERIES INDICATOR FCE = Card Edge, IDC l PLATING SG = Selective gold plating

SG

**POSITIONS** 10, 14, 16, 20, 26, 34,40, 50, 60, 62, 64

#### STRAIN RELIEF:

FCR - XX (XX= No. of Positions)

**KEYING PLUGS: FCE-K** (Key plugs can also be molded into connector, consult factory)

#### **OPTIONS:**

Add designator(s) to end of part number  $30 = 30 \mu$ in gold plating in contact area GY = Gray color insulator E = Mounting ears with slotted mounting holes