

## INTRODUCTION

Adam Tech MR Series Miniature Ribbon connectors come in a variety of terminations including Solder Terminals, Straight PCB Tails, Right Angle PCB mount, Flat Cable IDC and Straddle Mount Card Edge. These connectors with their high pressure, flat wiping contacts are a very popular widely used interface especially in telecommunication applications. Offered in 14, 24, 36 and 50 positions they are a good choice for high reliability positive latching connector applications. They combine an extremely reliable contact design with the popular, polarized D face. Adam Tech connectors are manufactured with precision stamped contacts and offer a wide selection of mating and mounting options.

## FEATURES:

Available in many termination styles  
 High pressure blade contacts  
 Industry standard compatibility  
 Durable metal shell design  
 Variety of Mating and mounting options  
 Spring latches provided separately installation optional.

## MATING CONNECTORS:

Adam Tech Miniature Ribbon connectors and all industry standard miniature ribbon connectors.

## SPECIFICATIONS:

### Material:

Standard insulator: PBT, Glass filled, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Blue (Black optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, nickel plated

### Contact Plating:

Gold Flash over nickel underplate on mating area, Tin over Copper underplate on tails

### Electrical:

Operating Voltage: 250V AC  
 Current Rating: 1 Amp max.  
 Contact Resistance: 35 mΩ max.  
 Insulation Resistance: 1000 MΩ min.  
 Dielectric Withstanding Voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 12 oz max.  
 Withdrawal force: 4.8 oz min.

### Temperature Rating:

Operating Temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

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



# MINIATURE RIBBON

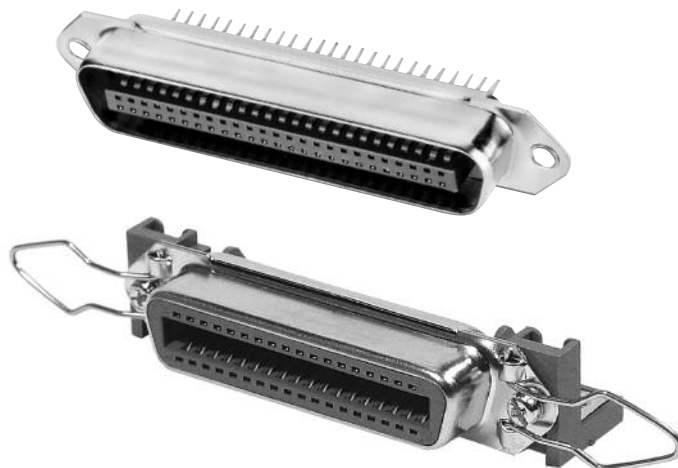
STRAIGHT PCB TAIL

IDC FLAT CABLE

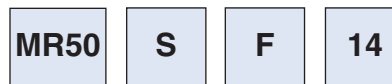
SOLDER TERMINALS

RIGHT ANGLE PCB MOUNT

MR SERIES



## ORDERING INFORMATION



### SHELL SIZE AND POSITIONS

MR14 = 14 Contacts  
 MR24 = 24 Contacts  
 MR36 = 36 Contacts  
 MR50 = 50 Contacts

### MOUNTING

1 = Spring latches with .120" diameter mounting holes (socket only)  
 14 = Spring latches with #4-40 clinch nuts in mounting holes (socket only)  
 2 = Notch Ears (plug only)  
 3 = .120" diameter mounting holes only  
 34 = #4-40 threaded clinch nuts in mounting holes w/o spring latches

### CONTACT TYPE

P = Plug  
 S = Socket

### TERMINATION TYPE

A = Solder Terminals  
 C = Straight PCB Tail  
 D = Right Angle PCB Mount  
 E = IDC, All plastic shell  
 F = IDC, Metal Shell  
 G = Straddle Mount Tails

### OPTIONS:

Add designator(s) to end of part number  
 30 = 30 μin gold plating in contact area  
 BK = Black color insulator  
 F = Forked boardlocks  
 HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
 LI = Spring Latches Installed