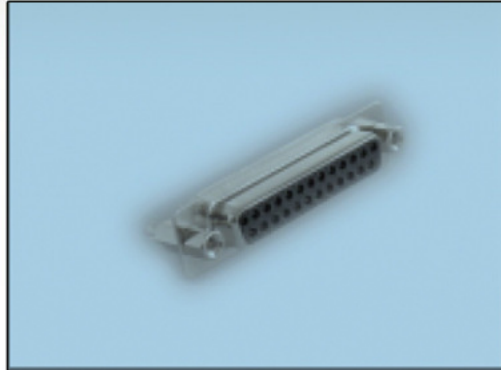
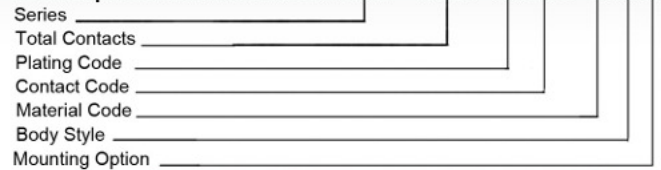




## SERIES 627/628



Example Part Number 627 - 025 - 2 20 - 0 4 7



### FEATURES

Both Low and High Profiles Available

.109 (2.77) contact spacing x .122 (2.82) row spacing

Plug and Receptacle in 9-, 15-, 25-, 37- and 50-pin Contact Sizes

Pin and Socket Contact Mating Design with PC Tail Termination

Metal Shell Provides EMI/RFI Shielding. Plug Shell Indents Provide Grounding and Additional Mating Retention

Grounding Features Include two-prong boardlock for Exceptional Retention to PC Board

Mounting options for panel mount or connector mating include through hole, threaded inserts and threaded standoffs

D-shaped connector mating outline provides polarization Design based on requirements of MIL-C-24308, EIA RS-232 and RS-449

### SPECIFICATIONS

Insulator Material: Thermoplastic polyester UL 94V-0; chemical resistant; colour - black

Ferrite Specifications: Attenuation - 20db MIN @ 30Mhz, 30dB MIN @ 50MHz, and 50dB @ 100Mhz

Contact Material: Plug contacts- brass  
Receptacle contacts - phosphor bronze

Contact Plating: Gold (see Ordering Code) over nickel for the mating area; tin plating on contact tails

Shell Material: Nickel-plated steel

Current Rating: 5 amperes

Contact Resistance: 10 milliohms maximum

Dielectric Withstanding Voltage: 1000 V AC rms @ sea level

Insulation Resistance: 5000 megohm minimum

Operating Temperature: -55 to + 105 degrees C

Engagement and Separation Force: 1 to 10 oz (0.28 to 2.78 N) per contact position

#### Series

627 Plug  
628 Receptacle

**Total Contacts** 009, 015, 025, 037, 050

#### Plating Code

2 Gold Flash (Class 3)  
3 15u" (0.38um) (Class 2)  
6 30u" (0.76um) (Class 1)

#### Contact Code

20 PC tail .125 (3.18)  
21 PC tail .165 (4.18)  
22 Solder Cup Termination  
28 Ferrite Filter

#### Material Code

0 Indicates Generic Internal Use Code

#### Body Style

4 Metal Covered .276 (7.00) low profile  
5 Metal Covered .472 (12.00) high profile  
6 Metal Covered Machined Contacts Low Profile

#### Mounting Option

1 .125" (3.18mm) dia. through-hole  
2 #4-40 UNC threaded inserts  
3 #4-40 UNC threaded standoffs  
6 #4-40 threaded insert with boardlocks  
7 #4-40 UNC threaded standoff with boardlocks  
8 #4-40 UNC threaded fixed standoffs

### LOW PROFILE

### PLUG 627 SERIES

### HIGH PROFILE



### RECEPTACLE 628 SERIES



| NUMBER OF CONTACTS | A     |         | B     |         | C PLUG |         | C RECEPTACLE |         | E     |         | F    |        |
|--------------------|-------|---------|-------|---------|--------|---------|--------------|---------|-------|---------|------|--------|
|                    | Inch  | (mm)    | Inch  | (mm)    | Inch   | (mm)    | Inch         | (mm)    | Inch  | (mm)    | Inch | (mm)   |
| 9                  | 1.214 | (30.84) | .984  | (24.99) | .667   | (16.92) | .640         | (16.26) | .432  | (10.97) | .108 | (2.74) |
| 15                 | 1.545 | (39.24) | 1.312 | (33.32) | .994   | (25.25) | .967         | (24.56) | .756  | (19.20) | .108 | (2.74) |
| 25                 | 2.088 | (53.04) | 1.852 | (47.04) | 1.534  | (38.96) | 1.508        | (38.30) | 1.304 | (33.12) | .109 | (2.76) |
| 37                 | 2.730 | (69.34) | 2.500 | (63.50) | 2.182  | (53.08) | 2.156        | (54.76) | 1.956 | (49.68) | .109 | (2.76) |
| 50                 | 2.640 | (67.05) | 2.406 | (61.11) | 2.080  | (52.83) | 2.054        | (52.17) | 1.740 | (44.20) | .109 | (2.76) |