# D Sub Plug Connector, Discrete Wire Termination



# **Physical**

Insulation Material: Thermoplastic Glass Filled Polyester Flammability: UL 94V-0 Color: Black Contact Material: Copper Alloy Plating Underplate:  $50 \mu'' (1.27 \mu m)$  Nickel — QQ-N-290, Class 2 Wiping Area: Gold — MIL-G-45204, Type II, Grade C (See ordering information) Shell Material: Steel Plating: Tin Wire Accommodation: See ordering Information Marking: Contact Position Numbers

#### **Electrical**

Current Rating: 20 AWG–7.0 Amps / 22 AWG–5.3 Amps Cable Rating: 115°C minimum 24 AWG-4.0 Amps / 26 AWG-2.9 Amps Cable Rating: 80°C minimum 28 AWG-2.0 Amps / 30 AWG-1.0 Amps Cable Rating: 80°C minimum **Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 VDC Withstanding Voltage: 1000 Vrms at Sea Level

#### **Environmental**

**Temperature Rating:**  $-65^{\circ}$  to  $+105^{\circ}$ 

UL File No.: E68080

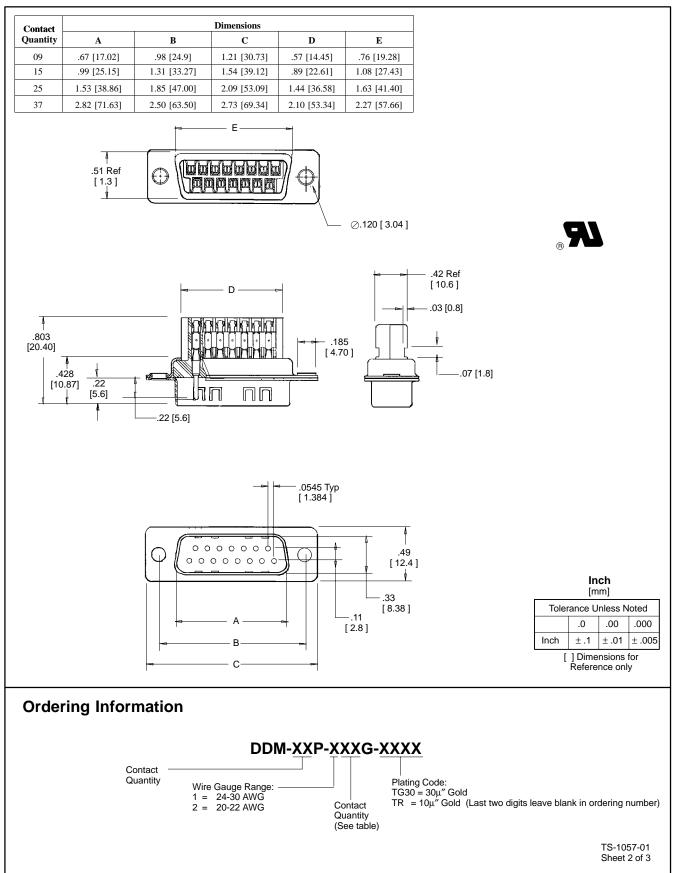
**3M Interconnect Solutions Division** 6801 River Place Blvd. Austin, TX 78726-9000

- #20-30 AWG discrete wire capability
- Tin plated steel shells for electrical grounding and shielding capability

Date Modified: February 11, 2002

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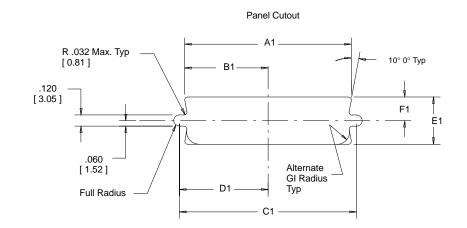


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| Mounting<br>Method* | Contact<br>Quantity | Dimensions       |                  |                  |                  |                |                |                |
|---------------------|---------------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|
|                     |                     | A1               | B1               | C1               | D1               | E1             | F1             | G1             |
| Front               | 9                   | .87<br>[ 22.0 ]  | .44<br>[ 11.2 ]  | .98<br>[ 24.9 ]  | .49<br>[ 12.5 ]  | 51<br>[13.0]   | .26<br>[ 6.6 ] | .12<br>[ 3.1 ] |
|                     | 15                  | 1.20<br>[ 30.5 ] | .60<br>[ 15.2 ]  | 1.31<br>[ 33.3 ] | .66<br>[ 16.8 ]  |                |                |                |
|                     | 25                  | 1.74<br>[ 44.2 ] | .87<br>[ 22.1 ]  | 1.85<br>[ 47.0 ] | .93<br>[ 23.6 ]  |                |                |                |
|                     | 37                  | 2.39<br>[ 60.7 ] | 1.20<br>[ 30.5 ] | 2.50<br>[ 63.5 ] | 1.25<br>[ 31.8 ] |                |                |                |
| Rear                | 9                   | 0.81<br>[ 20.6 ] | .40<br>[ 10.2 ]  | .98<br>[ 25.0 ]  | .49<br>[ 12.5 ]  | 0.45<br>[11.4] | 0.22           | .12<br>[ 3.1 ] |
|                     | 15                  | 1.13<br>[ 28.7 ] | .57<br>[ 14.5 ]  | 1.31<br>[ 33.3 ] | .66<br>[ 16.8 ]  |                |                |                |
|                     | 25                  | 1.67<br>[ 42.4 ] | .84<br>[ 21.3 ]  | 1.85<br>[ 47.0 ] | .93<br>[ 23.6 ]  |                |                |                |
|                     | 37                  | 2.33<br>[ 59.2 ] | 1.16<br>[ 29.5 ] | 2.50<br>[ 63.5 ] | 1.25<br>[ 31.8 ] |                |                |                |

\* Front Mount—The connector is mounted in front of the panel.

Rear Mount—The connector is mounted behind the panel.



| Tooling required to assemble the DDM socket and Plug connector |                      |            |  |  |  |  |
|--|----------------------|------------|--|--|--|--|
| Bench Termination Method                                       | Manual Arbor Press   | CT-20      |  |  |  |  |
|  | Tooling Nest         | DDM-MTT-1  |  |  |  |  |
|  | Platten              | DDM-MTT-1P |  |  |  |  |
| Hand Termination Method  | Ratcheting hand tool | DDM-HTT-R1 |  |  |  |  |

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