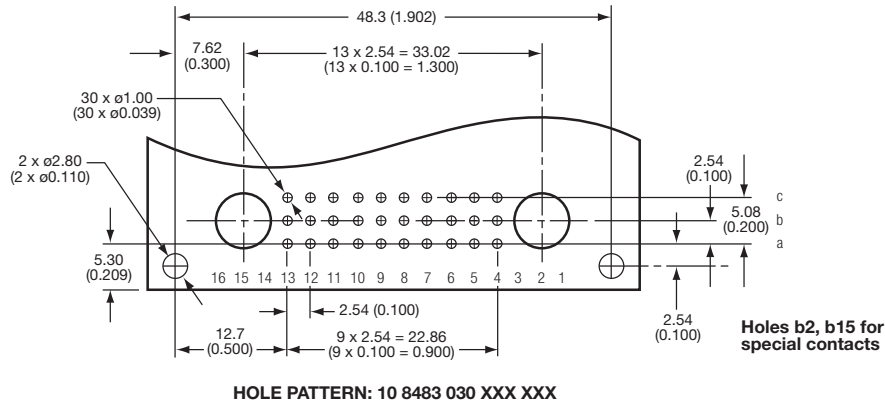
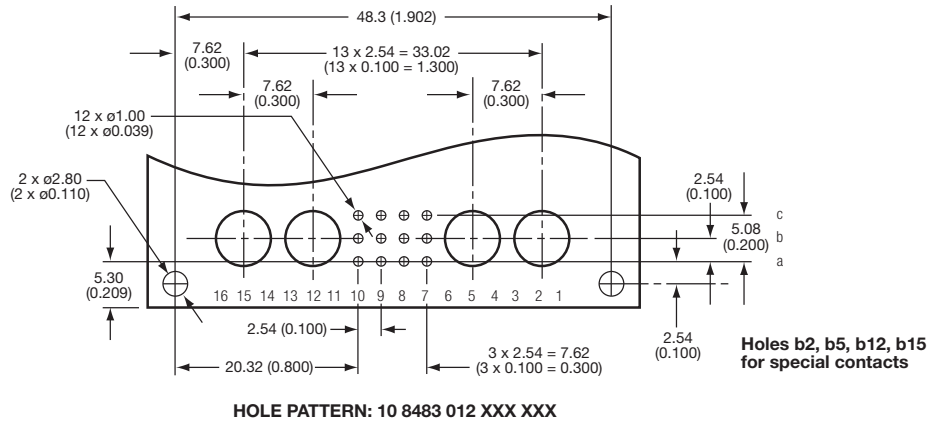


# Style M Connectors

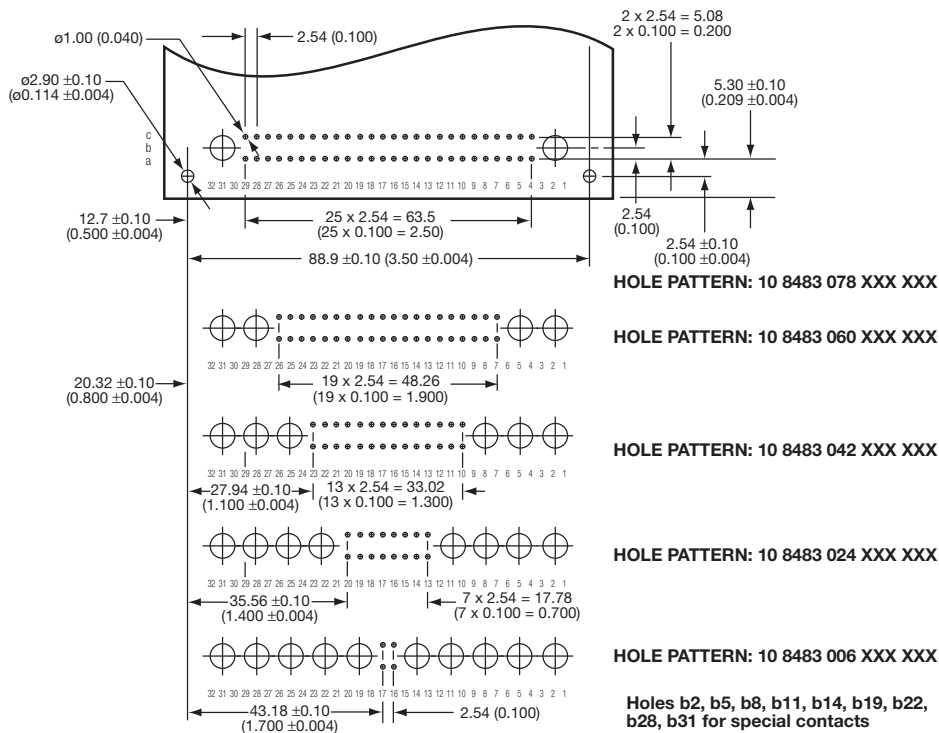
## Board Layouts



### STYLE 1/2 M



### STYLE M



# Style M Contacts



## Series 8489 – Special Contacts for Style M Connectors

### COAX PLUG CONTACT FOR RECEPTACLE SERIES 8483/8484

Dimensions: mm/inches

| Variation | Termination     |                 | Dimensions |            |            | Wire Type                         | Order Code          |
|-----------|-----------------|-----------------|------------|------------|------------|-----------------------------------|---------------------|
|           | Outer Conductor | Inner Conductor | ØA         | ØB         | ØC         |                                   |                     |
|           | CRIMP           | SOLDER          | 1.05/0.041 | 1.70/0.067 | 2.25/0.089 | RG 196, 178                       | 60 8489 020 001 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.20/0.126 | RG 179, 316 (single), RG 187      | 60 8489 020 002 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.58/0.141 | RG 316 (braided), RG 187 (double) | 60 8489 020 003 049 |
|           | SOLDER          | SOLDER          | 1.30/0.051 | 1.90/0.075 | 2.20/0.087 | RG 178                            | 60 8489 020 004 049 |
|           | SOLDER          | SOLDER          | 2.25/0.089 | 2.90/0.114 | 3.20/0.126 | RG 179                            | 60 8489 020 005 049 |
|           | CRIMP           | SOLDER          | 1.05/0.041 | 1.70/0.067 | 2.25/0.089 | RG 178                            | 60 8489 020 006 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.20/0.126 | RG 179                            | 60 8489 020 007 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.55/0.140 | RG 187                            | 60 8489 020 008 049 |
|           | CRIMP           | SOLDER          | 1.05/0.041 | 1.70/0.067 | 2.25/0.089 | RG 178                            | 60 8489 020 009 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.20/0.126 | RG 316 (single), RG 179           | 60 8489 020 010 049 |
|           | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.55/0.140 | RG 187                            | 60 8489 020 011 049 |
|           | P.C. (1)        | P.C. (1)        |            |            |            | RG 316 (double)                   | 60 8489 020 012 049 |

(1) Not applicable for receptacles with P.C. and Press-Fit termination.

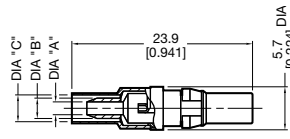
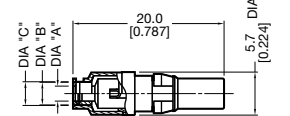
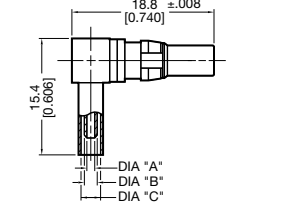
# Style M Contacts



## Series 8489 – Special Contacts for Style M Connectors

### COAX RECEPTACLE CONTACT FOR PLUG SERIES 8483

Dimensions: mm/inches

| Variation                                                                         | Termination     |                 | Dimensions |            |            | Wire Type                      | Order Code          |
|-----------------------------------------------------------------------------------|-----------------|-----------------|------------|------------|------------|--------------------------------|---------------------|
|                                                                                   | Outer Conductor | Inner Conductor | ØA         | ØB         | ØC         |                                | Perf. Class I       |
|  | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.55/0.140 | RG 187                         | 60 8489 030 001 049 |
|                                                                                   | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.20/0.126 | RG 316, RG 179, RG 188, RG 174 | 60 8489 030 002 049 |
|                                                                                   | CRIMP           | SOLDER          | 1.05/0.041 | 1.70/0.067 | 2.25/0.089 | RG 178                         | 60 8489 030 003 049 |
|  | SOLDER          | SOLDER          | 2.25/0.089 | 2.90/0.114 | 3.20/0.126 | RG 179                         | 60 8489 030 004 049 |
|                                                                                   | SOLDER          | SOLDER          | 1.30/0.051 | 1.90/0.075 | 2.20/0.087 | RG 178                         | 60 8489 030 005 049 |
|  | CRIMP           | SOLDER          | 1.70/0.067 | 2.70/0.106 | 3.20/0.126 | RG 179                         | 60 8489 030 006 049 |
|                                                                                   | CRIMP           | SOLDER          | 1.05/0.041 | 1.70/0.067 | 2.25/0.089 | RG 178                         | 60 8489 030 007 049 |
|                                                                                   |                 |                 |            |            |            |                                |                     |

# Style M Contacts



## Series 8489 – Special Contacts for Style M Connectors

### HIGH VOLTAGE RECEPTACLE CONTACT FOR PLUG SERIES 8483/8484

| Variation | Termination                                    | Performance | Ordering Code       |
|-----------|------------------------------------------------|-------------|---------------------|
|           |                                                |             | Perf. Class I       |
|           | SOLDER CABLE OUTLET STRAIGHT<br>AWG 20 maximum | 2.8 KV max  | 60 8489 060 001 049 |
|           | SOLDER CABLE OUTLET 90°<br>AWG 20 maximum      | 2.8 KV max  | 60 8489 060 002 049 |

### HIGH POWER PLUG CONTACT FOR PLUG SERIES 8483/8484

mm (inches)

| Variation | Termination | ØA*         | Performance    | Ordering Code       |
|-----------|-------------|-------------|----------------|---------------------|
|           | SOLDER      | .189 (4.80) | 40 Ampere max. | 60 8489 040 001 049 |
|           | SOLDER      | .138 (3.50) | 30 Ampere max. | 60 8489 040 002 049 |
|           | SOLDER      | .110 (2.80) | 20 Ampere max. | 60 8489 040 003 049 |
|           | CRIMP       | .189 (4.80) | 40 Ampere max. | 60 8489 040 005 049 |
|           | CRIMP       | .138 (3.50) | 30 Ampere max. | 60 8489 040 006 049 |
|           | CRIMP       | .110 (2.80) | 20 Ampere max. | 60 8489 040 007 049 |
|           | CRIMP       | .067 (1.70) | 10 Ampere max. | 60 8489 040 008 049 |
|           | P.C.        | Contact     | 40 Ampere max. | 60 8489 040 009 049 |

### HIGH POWER RECEPTACLE CONTACT FOR RECEPTACLE SERIES 8483/8484

mm (inches)

| Variation | Termination | ØA*         | Performance    | Ordering Code       |
|-----------|-------------|-------------|----------------|---------------------|
|           | SOLDER      | .189 (4.80) | 40 Ampere max. | 60 8489 050 001 049 |
|           | SOLDER      | .138 (3.50) | 30 Ampere max. | 60 8489 050 002 049 |
|           | SOLDER      | .110 (2.80) | 20 Ampere max. | 60 8489 050 003 049 |
|           | SOLDER      | .067 (1.70) | 10 Ampere max. | 60 8489 050 004 049 |
|           | CRIMP       | .189 (4.80) | 40 Ampere max. | 60 8489 050 005 049 |
|           | CRIMP       | .138 (3.50) | 30 Ampere max. | 60 8489 050 006 049 |
|           | CRIMP       | .110 (2.80) | 20 Ampere max. | 60 8489 050 007 049 |
|           | CRIMP       | .067 (1.70) | 10 Ampere max. | 60 8489 050 008 049 |
|           | P.C.        | Contact     | 40 Ampere max. | 60 8489 050 009 049 |

\*ØA: inner diameter of contact sleeve.

# Style M Contacts



## Series 8489 – Special Contacts for Style M Connectors

### TECHNICAL DATA

|                          | Coaxial Contacts                                               | High Voltage Contacts | High Current Contacts |
|--------------------------|----------------------------------------------------------------|-----------------------|-----------------------|
| Contact Material         | copper alloy                                                   | copper alloy          | copper alloy          |
| Contact Plating          | gold over nickel                                               | gold over nickel      | gold over nickel      |
| Performance Class        | 1 - 500 mating cycles                                          | 1 - 500 mating cycles | 1 - 500 mating cycles |
| Insulator Material       | PTFE                                                           | PTFE                  |                       |
| Temperature Range        | -55°C ~ +125°C                                                 | -55°C ~ +125°C        | -55°C ~ +125°C        |
| Maximum Current          | 0.5 ampere                                                     | 0.5 ampere            | 10, 20, 30, 40 ampere |
| Operating Voltage        | 250 V eff.                                                     | 2.8 KV                |                       |
| Peak Voltage             | 750 V eff.                                                     | 3.8 KV                |                       |
| Contact Resistance       | 3 Mohm max. (1)<br>10 Mohm max. (2)                            | < 3 Mohm max.         | < 1 Mohm max.         |
| Insulation Resistance    | 10,000,000 Mohm                                                | 10,000,000 Mohm       |                       |
| Insertion Force (max.)   | 10 N                                                           | 3 N                   | 10 N                  |
| Retention Force (min.)   | 0.9 N                                                          | 0.8 N                 | 1.6 N                 |
| Characteristic Impedance | 50 Ohm                                                         |                       |                       |
| Working Frequency        | ca. 30 GHz max.<br>0-10 GHz opt.                               |                       |                       |
| Reflection Coefficient   | max. 0.05 to 1 GHz<br>max. 0.07 to 4 GHz<br>max. 0.1 to 10 GHz |                       |                       |

(1) Outer Conductor

(2) Inner Conductor

# Style M Tooling



## Series 8489 – Tools for Special Contacts for Style M Connectors

### CRIMPING PLIER FOR HIGH POWER CONTACTS

Part Number  
06 8489 001 010 000



### CRIMPING PLIER FOR COAX CONTACTS (WITHOUT CRIMPING INSERTS)

Part Number  
36 8489 001 020 001

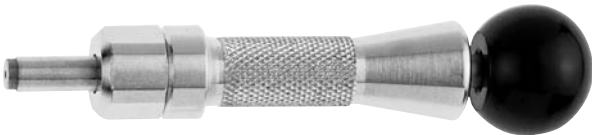


### CRIMPING INSERTS

| Part Number          | Cable Type                                                        |
|----------------------|-------------------------------------------------------------------|
| 66 8489 00 102 1 000 | RG 196 A/U<br>RG 178 B/U                                          |
| 66 8489 00 102 2 000 | RG 188 A/U<br>RG 174 A/U<br>RG 316 /U<br>RG 179 B/U<br>RG 187 A/U |
| 66 8489 00 102 3 000 | RG 316 /U                                                         |

### EXTRACTION TOOL FOR ALL CONTACT TYPES

| Part Number         | Length          |
|---------------------|-----------------|
| 06 8489 001 001 000 | 2.755 (70.00)   |
| 06 8489 001 002 000 | 7.874 (200.00)  |
| 06 8489 001 003 000 | Replacement Tip |



# Style M Contacts



## Series 8489 – Special Contacts for Style M Connectors

### HIGH POWER RECEPTACLE CONTACT FOR RECEPTACLE SERIES 8484

| Variation | Termination | ØA*                                                                                                                                   | Performance    | Ordering Code       |
|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|
|           | Screw Ø3M   | .114 (2.90) for<br>.118 (3.00)<br>PCB hole<br>Note: set<br>PCB hole<br>spec<br><br>drilled hole 3.1-0.02<br>finish hole 3.0+0.04-0.06 | 40 Ampere max. | 70 8485 0214 00 343 |
|           | Press-Fit   |                                                                                                                                       | 40 Ampere max. | 70 8485 0314 00 343 |

NB: Please refer to page 49 for other special contacts and tools for Press-Fit Style M Connectors.