

MMCX Connectors



Among the smallest that terminate to standard application cables. **Body:** Brass with gold over nickel over copper plating.

Right Angle Solder and Crimp Type Plugs

| Stock No. | Mfr.'s Type  | Fig. | Description  | For RG/U Cable               | EACH |       |
|-----------|--------------|------|--------------|------------------------------|------|-------|
|           |              |      |              |                              | 1-9  | 10-49 |
| 528-2134  | 135-3693-101 | —    | Solder Type  | 0.086" Semi-Rigid            | 7.27 | 6.66  |
| 528-2100  | 135-3436-101 | 1    | Crimp Insert | 0.047" Flexible              | 7.05 | 6.46  |
| 528-2102  | 135-3402-101 | 1    | Crimp Insert | 178, 196                     | 6.66 | 6.09  |
| 528-2104  | 135-3403-101 | 1    | Crimp Sleeve | 316, 188, 187, 179, 161, 174 | 7.11 | 6.40  |
| 528-2106  | 135-3404-101 | 1    | Crimp Sleeve | 316DS, 188DS                 | 7.20 | 6.60  |

Straight Crimp Type Plugs

|          |              |   |              |                     |      |      |
|----------|--------------|---|--------------|---------------------|------|------|
| 528-2110 | 135-3436-001 | 2 | Crimp Insert | 0.047" Flexible     | 4.45 | 4.08 |
| 528-2112 | 135-3402-001 | 2 | Crimp Insert | 178, 196            | 4.45 | 4.08 |
| 528-2114 | 135-3403-001 | 2 | Crimp Sleeve | 316, 188, 161, 174  | 6.79 | 6.12 |
| 528-2116 | 135-3404-001 | 2 | Crimp Sleeve | 316DS, 188DS, 187DS | 6.90 | 6.32 |
| 528-2118 | 135-3433-001 | 2 | Crimp Sleeve | 179, 187            | 7.20 | 6.60 |

Straight Crimp Type Jack Solder or Crimp Captivated Contacts

|          |              |   |              |                     |      |      |
|----------|--------------|---|--------------|---------------------|------|------|
| 528-2280 | 135-3336-001 | 3 | Crimp Insert | 0.047" Flexible     | 6.57 | 5.92 |
| 528-2282 | 135-3302-001 | 3 | Crimp Insert | 178, 196            | 6.73 | 6.17 |
| 528-2284 | 135-3303-001 | 3 | Crimp Sleeve | 316, 188, 161, 174  | 7.20 | 6.60 |
| 528-2286 | 135-3304-001 | 3 | Crimp Sleeve | 316DS, 188DS, 187DS | 9.79 | 8.98 |
| 528-2288 | 135-3333-001 | 3 | Crimp Sleeve | 179, 187            | 8.53 | 7.82 |

Right Angle PC Jack Receptacles

4 × □.020" legs.

| Stock No. | Mfr.'s Type  | Fig. | Description       | For RG/U Cable        | EACH |       |
|-----------|--------------|------|-------------------|-----------------------|------|-------|
|           |              |      |                   |                       | 1-9  | 10-49 |
| 528-2120  | 135-3701-301 | 4    | 0.115" Leg Length | 0.028" center contact | 7.86 | 7.21  |
| 528-2122  | 135-3701-311 | 4    | 0.068" Leg Length | 0.028" center contact | 7.71 | 7.07  |

Straight PC Mount Jack Receptacles

4 × □.020" legs.

|          |              |   |                   |                             |      |      |
|----------|--------------|---|-------------------|-----------------------------|------|------|
| 528-2130 | 135-3701-201 | 5 | 0.115" Leg Length | 0.028" center contact       | 4.09 | 3.69 |
| 528-2132 | 135-3701-211 | 5 | 0.068" Leg Length | 0.028" center contact       | 4.01 | 3.67 |
| 528-2133 | 135-3711-201 | 6 | 0.030" Standoffs  | 0.136" square surface mount | 4.90 | 4.49 |

Straight PC Mount Plug Receptacle

4 × □.020" legs.

|          |              |   |                   |                       |      |      |
|----------|--------------|---|-------------------|-----------------------|------|------|
| 528-2136 | 135-3801-201 | 7 | 0.115" Leg Length | 0.028" center contact | 5.61 | 5.13 |
|----------|--------------|---|-------------------|-----------------------|------|------|

End Launch Jack Receptacle — Surface Mount

|          |              |   |                    |                       |      |      |
|----------|--------------|---|--------------------|-----------------------|------|------|
| 528-2138 | 135-3711-801 | 8 | 0.115" Leg Length, | 0.028" center contact | 5.56 | 5.10 |
|----------|--------------|---|--------------------|-----------------------|------|------|

MCX Coaxial Connectors — 50 Ohm and 75 Ohm

► 30% Smaller than the SMB Connectors

► Plating: Gold over Brass Except Where Noted

**Working Voltage Rating at Sea Level for Cable Type:** RG-178 — 250 VRMS; RG-316, 0.086" semi-rigid and uncabled adapters — 335 VRMS. **Frequency Range:** 0-6 GHz. **Materials:** Body — Brass, gold plated; Crimp sleeves — Copper, gold plated; Mounting hardware — Brass nuts, phosphor bronze lockwasher, gold or nickel plated. **Insulation:** PTFE fluorocarbon.

50 Ohm Cable Plugs — Captivated Contact Except 133-3402-001

| Stock No. | Mfr.'s Type   | Fig. | Description              | For RG/U Cable     | EACH |       |
|-----------|---------------|------|--------------------------|--------------------|------|-------|
|           |               |      |                          |                    | 1-9  | 10-49 |
| 528-2250  | 133-3693-001  | 9    | Straight, Solder Type    | 0.086" Semi-Rigid  | 4.38 | 4.02  |
| 528-2035  | 133-3402-001  | 10   | Straight, Crimp Type     | 178, 196           | 5.04 | 4.62  |
| 528-2036  | 133-3403-001  | 10   | Straight, Crimp Type     | 188, 316, 161, 174 | 4.42 | 4.04  |
| 528-2037  | 133-3404-001  | 10   | Straight, Crimp Type     | 188DS, 316DS       | 4.51 | 4.14  |
| 528-2252  | 133-3693-101  | 11   | Right Angle, Solder Type | 0.086" Semi-Rigid  | 5.66 | 5.17  |
| 528-2038  | 133-3402-101  | 12   | Right Angle, Crimp Type  | 178, 196           | 5.21 | 4.77  |
| 528-2040  | 133-3303-101  | 12   | Right Angle, Crimp Type  | 188, 316, 161, 174 | 5.29 | 4.76  |
| 528-2041  | 133-3403-106* | 12   | Right Angle, Crimp Type  | 188, 316, 161, 174 | 4.86 | 4.46  |
| 528-2055  | 133-3404-101  | 12   | Right Angle, Crimp Type  | 188DS, 316DS       | 5.38 | 4.93  |
| 528-2056  | 133-3404-406* | 12   | Right Angle, Crimp Type  | 188DS, 316DS       | 5.12 | 4.69  |

\*Nickel Plating Over Brass.

75 Ohm Cable Plugs

|          |              |    |                         |       |      |      |
|----------|--------------|----|-------------------------|-------|------|------|
| 528-2330 | 133-8433-001 | 10 | Straight, Crimp Type    | 179   | 8.50 | 7.80 |
| 528-2332 | 133-8434-001 | 10 | Straight, Crimp Type    | 179DS | 8.50 | 7.80 |
| 528-2334 | 133-8433-101 | 12 | Right Angle, Crimp Type | 179   | 5.09 | 4.67 |
| 528-2336 | 133-8434-101 | 12 | Right Angle, Crimp Type | 179DS | 5.09 | 4.67 |

Straight and Bulkhead Jacks — 50 Ohm Solder or Crimp Contacts

|          |              |    |                               |                              |      |      |
|----------|--------------|----|-------------------------------|------------------------------|------|------|
| 528-2254 | 133-3302-001 | 13 | Straight, Non-Captive Contact | 178, 196                     | 7.28 | 6.68 |
| 528-2256 | 133-3303-001 | 13 | Straight, Captive Contact     | 161, 174, 188, 316, 179, 187 | 7.51 | 6.87 |
| 528-2258 | 133-3304-001 | 13 | Straight, Captive Contact     | 188DS, 316DS                 | 7.68 | 7.04 |
| 528-2260 | 133-3302-401 | 14 | Bulkhead, Non-Captive Contact | 178, 196                     | 9.09 | 8.33 |
| 528-2262 | 133-3303-401 | 14 | Bulkhead, Captive Contact     | 188, 316, 161, 174, 179, 187 | 8.18 | 7.48 |
| 528-2264 | 133-3304-401 | 14 | Bulkhead, Captive Contact     | 188DS, 316DS                 | 9.17 | 8.40 |

Straight and Bulkhead Jacks — 75 Ohm

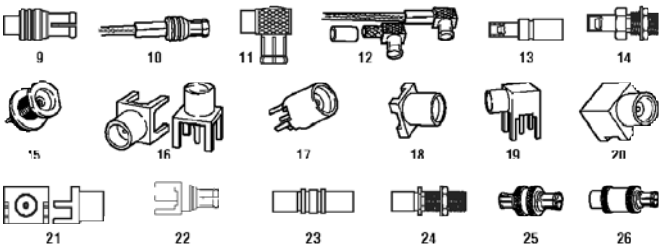
|          |              |    |                           |       |      |      |
|----------|--------------|----|---------------------------|-------|------|------|
| 528-2340 | 133-8333-001 | 13 | Straight, Captive Contact | 179   | 8.10 | 7.43 |
| 528-2342 | 133-8334-001 | 13 | Straight, Captive Contact | 179DS | 8.10 | 7.43 |
| 528-2350 | 133-8333-401 | 14 | Bulkhead, Captive Contact | 179   | 8.95 | 8.20 |
| 528-2352 | 133-8334-401 | 14 | Bulkhead, Captive Contact | 179DS | 8.95 | 8.20 |

Bulkhead Jack Receptacles — 0.125" Max. Panel Thickness

| Stock No. | Mfr.'s Type  | Fig. | Description                              | EACH |       |
|-----------|--------------|------|------------------------------------------|------|-------|
|           |              |      |                                          | 1-9  | 10-49 |
| 528-2054  | 133-3701-401 | 15   | Front Mount, Solder Cup Terminal, 50 Ohm | 5.58 | 5.12  |
| 528-2366  | 133-8701-401 | 15   | Front Mount, Solder Cup Terminal, 75 Ohm | 5.51 | 5.05  |

PC Mount Jack Receptacles — 50 Ohm

|          |              |    |                             |      |      |
|----------|--------------|----|-----------------------------|------|------|
| 528-2042 | 133-3701-201 | 16 | Straight, 0.155" Leg Length | 2.94 | 2.69 |
| 528-2044 | 133-3701-211 | 16 | Straight, 0.110" Leg Length | 3.26 | 2.94 |



PC Mount Jack Receptacles — 50 Ohm (Continued)

| Stock No. | Mfr.'s Type   | Fig. | Description                                | EACH |       |
|-----------|---------------|------|--------------------------------------------|------|-------|
|           |               |      |                                            | 1-9  | 10-49 |
| 528-2057  | 133-3701-216* | 16   | Straight, 0.110" Leg Length                | 3.24 | 2.97  |
| 528-2058  | 133-3701-221  | 16   | Straight, 0.068" Leg Length                | 3.40 | 3.12  |
| 528-2060  | 133-3701-226* | 16   | Straight, 0.068" Leg Length                | 3.12 | 2.86  |
| 528-2048  | 133-3701-231  | 17   | Straight, 0.115" Leg Length, 0.100" Layout | 3.88 | 3.56  |
| 528-2062  | 133-3711-201  | 18   | Straight, Surface Mount                    | 4.81 | 4.41  |
| 528-2064  | 133-3701-301  | 19   | Right Angle, 0.155" Leg Length             | 7.70 | 7.06  |
| 528-2052  | 133-3701-311  | 19   | Right Angle, 0.110" Leg Length             | 8.46 | 7.62  |
| 528-2066  | 133-3701-321  | 19   | Right Angle, 0.068" Leg Length             | 8.21 | 7.53  |
| 528-2068  | 133-3701-326* | 19   | Right Angle, 0.068" Leg Length             | 7.70 | 7.06  |
| 528-2070  | 133-3711-301  | 20   | Right Angle, Surface Mount                 | 7.87 | 7.21  |
| 528-2266  | 133-3701-801  | 21   | End Launch for 0.062" Boards               | 4.43 | 4.06  |
| 528-2268  | 133-3701-811  | 21   | End Launch for 0.042" Boards               | 4.43 | 4.06  |

\*Nickel Plating Over Brass.

PC Mount Jack Receptacles — 75 Ohm

|          |              |    |                                |      |      |
|----------|--------------|----|--------------------------------|------|------|
| 528-2356 | 133-8701-201 | 16 | Straight, 0.155" Leg Length    | 4.01 | 3.67 |
| 528-2358 | 133-8701-211 | 16 | Straight, 0.110" Leg Length    | 4.28 | 3.92 |
| 528-2072 | 133-8711-201 | 18 | Straight, Surface Mount        | 5.81 | 5.32 |
| 528-2360 | 133-8701-301 | 19 | Right Angle, 0.155" Leg Length | 7.85 | 7.19 |
| 528-2362 | 133-8701-311 | 19 | Right Angle, 0.110" Leg Length | 7.85 | 7.19 |
| 528-2364 | 133-8701-801 | 21 | End Launch for 0.062" Boards   | 4.51 | 4.13 |

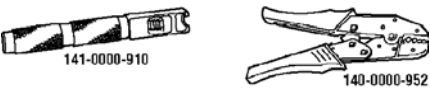
PC Mount Plug Receptacles

|          |              |    |                                     |      |      |
|----------|--------------|----|-------------------------------------|------|------|
| 528-2270 | 133-3801-201 | 22 | Straight, 0.155" Leg Length, 50 Ohm | 5.83 | 5.35 |
| 528-2345 | 133-8801-201 | 22 | Straight, 0.155" Leg Length, 75 Ohm | 5.61 | 5.13 |
| 528-2347 | 133-8801-211 | 22 | Straight, 0.110" Leg Length, 75 Ohm | 5.51 | 5.05 |

In-Series Adapters

|          |               |    |                                         |       |       |
|----------|---------------|----|-----------------------------------------|-------|-------|
| 528-2272 | 133-3901-801  | 23 | Straight, Jack to Jack, 50 Ohm          | 7.60  | 6.97  |
| 528-2274 | 133-3901-806* | 23 | Straight, Jack to Jack, 50 Ohm          | 7.18  | 6.58  |
| 528-2074 | 133-8901-801  | —  | Straight, Jack to Jack, 75 Ohm          | 28.05 | 25.71 |
| 528-2276 | 133-3901-401  | 24 | Straight, Jack to Bulkhead Jack, 50 Ohm | 8.17  | 7.49  |
| 528-2278 | 133-3901-406* | 24 | Straight, Jack to Bulkhead Jack, 50 Ohm | 7.81  | 7.15  |
| 528-2076 | 133-8901-811  | 25 | Straight, Plug to Plug, 75 Ohm          | 27.29 | 25.01 |
| 528-2078 | 133-8901-821  | 26 | Straight, Jack to Plug, 75 Ohm          | 23.46 | 21.51 |

\*Nickel Plated.



MMCX and MCX Tools

|           |               |                                                                                |      |        |
|-----------|---------------|--------------------------------------------------------------------------------|------|--------|
| 528-2140. | 141-0000-910. | MMCX right angle assembly/decoupling .....                                     | EACH | 13.76  |
| 528-2142. | 140-0000-952. | Tool (frame only) .....                                                        | EACH | 98.77  |
| 528-2143. | 140-0000-953. | Die set for 0.047" flexible, 178, 316, 316DS, Hex 0.105", 0.128", 0.151" ..... | EACH | 196.20 |