**About TCC**

**TCC Industries, Inc.** has a wide range of high quality connectors and adapters for the ever expanding RF connector industry. From the popular N, UHF, Mini UHF, TNC and BNC connectors to SMA, MMCX, SMB 7/16 DIN and reverse polarity/thread units.

TCC supports our OEM customers to the fullest with our ability to create custom RF components. We assist in the design of these components at every step to maximize our clients’ productivity and ensure compatibility and functionality at the lowest price. Add to that our ability to create other types of components that involve screw machine and die-cast manufactured parts and it’s easy to see that TCC can provide the services and support needed to handle today’s ever-changing RF applications.

TCC also provides other divisions that support turnkey and other components. These business units are as follows:

**Switching Power Supply and Chargers** for OEM and ODM cellular market, portable drives, PDA’s, MP3 players, hubs and other portable – AC/DC, DC/DC, universal input adapters, 1Watt to 200Watt.

**Contract Assembly:** SMT PCB assembly, fine pitch to BGA. Cable assembly and final product assembly. TCC offers support for many industries and products, some examples are: USB Card Readers, Modems, wireless routers, Set-top Boxes, and cellular phone accessories.

Since our inception in 1987, TCC has been a leading provider to the RF component industry, a supplier to the antenna industry, and a supplier to the OEM cellular phone market for power conversion and cabling accessories. With our ISO 9002 approved factories in Taiwan and China including certifications from UL, CSA, TUV and CE, TCC is positioned to support all of our customers’ need for high volume and high quality, low cost chargers, adapters and RF connectors.

Headquartered in Buena Park, California, TCC offers our North American customers’ local design support, rapid sampling and customer service.

Whatever your product application demands, we invite you to contact TCC and let us demonstrate our outstanding products and commitment to customer service.

A high quality job requires high quality connections, get the best with TCC.
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<td><strong>A:</strong></td>
<td>6A/U  6/U</td>
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<td><strong>C:</strong></td>
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<td><strong>D:</strong></td>
<td>58/U  58A/U</td>
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<td><strong>E:</strong></td>
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<td>142B/U</td>
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<td><strong>K:</strong></td>
<td>174/U  188A/U</td>
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<td>316/U  LMR® 100</td>
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<td><strong>Q:</strong></td>
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<td><strong>T:</strong></td>
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<td><strong>U:</strong></td>
<td>8X</td>
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<tr>
<td><strong>V:</strong></td>
<td>Belden 7808A</td>
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11 series - N type connector Technical Characteristics

**Electrical:**
- Impedance: 50 Ω
- Frequency Range: 0-10Ghz
- Dielectric Withstanding Voltage: 1000 VRMS max.

**VSWR:**
- Straight: 1.3 max.
- Right Angle: 1.5 max.

**Contact Resistance:**
- Center Contact: ≤ 3 Milli Ω
- Outer Contact: ≤ 2 Milli Ω
- Insulator Resistance: ≥ 5000 Meg Ω

**11 series - N type connector**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>11-01B-6-TGN</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled, for TCC Cable Group B</td>
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<tr>
<td>11-01B-6-TGS</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled, for TCC Cable Group B</td>
</tr>
<tr>
<td>11-01B-7-TGN</td>
<td>N Male Clamp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group B</td>
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<tr>
<td>11-01B-6-TGN</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled, for TCC Cable Group C</td>
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<tr>
<td>11-01L6-TGS</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled, for TCC Cable Group L6</td>
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<tr>
<td>11-01T-6-TGN</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled, for TCC Cable Group T</td>
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<tr>
<td>11-01T-6-TGS</td>
<td>N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, Hex Shell, for TCC Cable Group T</td>
</tr>
<tr>
<td>11-01X-7-TGN</td>
<td>N Male Clamp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group X</td>
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<tr>
<td>11-02B-10-TGN</td>
<td>N Female Clamp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group B</td>
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</table>
11 series

11-02B-3-TGN
N Female Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group B

11-02B-3-TGS
N Female Clamp, Teflon Insulation, Gold Pin, Silver Plated Body, for TCC Cable Group B

11-02F-7-TGN
N Female Clamp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group F

11-02L6-TGS
N Female Clamp, Teflon Insulation, Gold Pin, Silver Plated Body, for TCC Cable Group L6

11-02T-3-TGN
N Female Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group T

11-02T-3-TGS
N Female Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group T

11-05F-6-TGN
N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled, for TCC Cable Group F

11-05F-6-TGS
N Male Clamp, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled, for TCC Cable Group F

11-05Z-6-TGN
N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

11-05Y-6-TGN
N Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Y

11-11B-3-TGN
N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group B

11-11B-3-TGS
N Male Crimp, Teflon Insulation, Gold Captive Pin, Silver Plated Body, Knurled, for TCC Cable Group B

11-11C-3-TGN
N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group C

11-11C-3-TGS
N Male Crimp, Teflon Insulation, Gold Captive Pin, Silver Plated Body, Knurled, for TCC Cable Group C
11-11F-3-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Knurled,
for TCC Cable Group F

11-11F-3-TGS
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Silver Plated Body, Knurled,
for TCC Cable Group F

11-11F-R-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body,
Reverse Thread,
for TCC Cable Group F

11-11F-RP-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Reverse Polarity,
for TCC Cable Group F

11-11G-3-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body,
for TCC Cable Group G

11-11K-3-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body,
for TCC Cable Group K

11-11L-3-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body,
for TCC Cable Group L

11-11L-RP-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Reverse Polarity,
for TCC Cable Group L

11-11L1-3-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Knurled,
for TCC Cable Group L1

11-11L1-RP-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Knurled,
Reverse Polarity, for TCC Cable Group L1

11-11L2-H-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Hex Shell,
for TCC Cable Group L2

11-11L2-RP-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Knurled,
Reverse Polarity, for TCC Cable Group L2

11-11L2-TGN
N Male Crimp, Teflon Insulation,
Gold Captive Pin,
Nickel Plated Body, Knurled,
for TCC Cable Group L2

11-11L6-EHK-TGS
N Male Crimp, Teflon Insulation, Gold Pin,
Silver Plated Body, Knurled,
Fast connector, for TCC Cable Group L6
**11 series**

- **11-11L6-TGS**
  - N Male Crimp, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled, for TCC Cable Group L6

- **11-11T-3-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group T

- **11-11T-3-TGS**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group T

- **11-11T-EK-TGS**
  - N Crimp, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled, Fast connector, for TCC Cable Group T

- **11-11T-H-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Hex Shell, for TCC Cable Group T

- **11-11T-R-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Thread, for TCC Cable Group T

- **11-11T-RP-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Polarity, for TCC Cable Group T

- **11-11Y-3-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group Y

- **11-11Y-3-TGS**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group Y

- **11-11Z-3-TGN**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group Z

- **11-11Z-3-TGS**
  - N Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group Z

- **11-12F-TGN**
  - N Female Crimp 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

- **11-12F-TGN**
  - N Female Crimp 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

- **11-13F-H-TGN**
  - N Male Crimp, Teflon Insulation, Nickel Plated Body, Hex Shell, Right Angle, for TCC Cable Group F

- **11-12Z-TGN**
  - N Female Crimp 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z
11 series

11-13T-H-TGN
N Male Crimp, Teflon Insulation, Nickel Plated Body, Hex Shell, Right Angle, for TCC Cable Group T

11-14B-2-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group B

11-14B-2-TGS
N Female Crimp, Teflon Insulation, Gold Captive Pin, Silver Plated Body, Knurled, for TCC Cable Group B

11-14C-2-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group C

11-14F-2-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group F

11-14F-2-TGS
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group F

11-14F-R-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Reverse Thread, Soldering, for TCC Cable Group F

11-14F-RP-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Polarity, for TCC Cable Group F

11-14L-RP-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Polarity, for TCC Cable Group L

11-14L-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group L

11-14L1-2-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group L1

11-14L1-RP-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Polarity, for TCC Cable Group L1

11-14L2-TGN
N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group L2

11-14L6-TGS
N Female Crimp, Teflon Insulation, Gold Captive Pin, Silver Plated Body, Knurled, for TCC Cable Group L6
11-14P-TGN  N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group P

11-14T-2-TGN  N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group T

11-14T-RP-TGN  N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, Reverse Polarity, for TCC Cable Group T

11-14Z-2-TGN  N Female Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group T

11-15F-TGN  N Female Crimp Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

11-15L-TGN  N Female Crimp Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

11-15T-TGN  N Female Crimp Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group T

11-15Z-TGN  N Female Crimp Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

11-16-TGN  N Male 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

11-17-TGN  N Female Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

11-17-TGS  N Female Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Silver Plated Body, Soldering

11-18-2-TGN  N Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

11-19-R-TGN  N Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, Soldering

11-19-RP-TGN  N Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, Soldering
11-19-TGN
N Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

11-19-TGS
N Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Silver Plated Body, Soldering

11-20-TGN
N Adapter, N Male to N Male, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled

11-20-TGS
N Adapter, N Male to N Male, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled

11-21-4-TGN
N Adapter, N Female to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, Knurled

11-21-4-TGS
N Adapter, N Female to N Female, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled

11-23-3-DGN
N Adapter Bulkhead Mount, N Female to N Female, Delrin Insulation, Gold Pin, Nickel Plated Body

11-23-TGS
N Adapter Bulkhead Mount, N Female to N Female, Teflon Insulation, Gold Pin, Silver Plated Body

11-26-1-TGS
N T-Adapter, N Female to N Female to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body

11-27-1-TGN
N T-Adapter, N Female to N Male to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body

11-28-1-TGN
N Adapter, N Male to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, Right Angle

11-28-1-TGS
N Adapter, N Male to N Female, Teflon Insulation, Gold Pin, Silver Plated Body, Right Angle

11-31-TGN
N Adapter, N Male to UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body

11-31-TGS
N Adapter, N Male to UHF Female, Teflon Insulation, Gold Pin, Silver Plated Body, Knurled
### 12 series - Mini-UHF type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>12-01F-1-DGN</th>
<th>12-01F-DGN</th>
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<td>Impedance</td>
<td>50 Ω</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>0-2Ghz</td>
<td>0-2Ghz</td>
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<tr>
<td>Dielectric Withstanding Voltage</td>
<td>1000 VRMS max.</td>
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<tr>
<td>VSWR Straight</td>
<td>1.3 max.</td>
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<tr>
<td>VSWR Right Angle</td>
<td>1.5 max.</td>
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<tr>
<td>Contact Resistance Center Contact</td>
<td>≤ 5 Milli Ω</td>
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<tr>
<td>Contact Resistance Outer Contact</td>
<td>≤ 3 Milli Ω</td>
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<tr>
<td>Insulator Resistance</td>
<td>≥ 5000 Meg Ω</td>
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**Mini-UHF Female Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, Knurled, for TCC Cable Group F**

**Mini-UHF Female Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, for TCC Cable Group F**

**Mini-UHF Female Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, Die Cast, for TCC Cable Group F**

**Mini-UHF Female Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, 4pcs, for TCC Cable Group F**

**Mini-UHF Male Crimp, Delrin Insulation, Gold Captive Pin, Black Nickel Plated Body, Knurled, 4pcs, for TCC Cable Group F**

**Mini-UHF Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, Die Cast 4pcs., for TCC Cable Group F**

**Mini-UHF Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, Pin attached to Body, 3 pcs, for TCC Cable Group F**

**Mini-UHF Male Crimp, Delrin Insulation, Gold Pin, Silver Plated Body, Knurled, Pin attached to Body, 3 pcs, for TCC Cable Group F**

**Mini-UHF Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled, Pin attached to Body, 3 pcs, for TCC Cable Group F**
**Mini-UHF**

12-02L-3T-DGN
- Mini UHF Male Crimp
- Delrin Insulation
- Gold Captive Pin, Nickel Plated Body
- 4pcs, for TCC Cable Group L

12-03B-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin
- Nickel Plated Body, Knurled
- for TCC Cable Group B

12-03F-1-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Captive Pin
- Nickel Plated Body, Knurled
- for TCC Cable Group F

12-03F-3-TGBC
- Mini UHF Male Crimp
- Teflon Insulation, Gold Pin
- Black Chrome Plated Body, Knurled, Push-on
- for TCC Cable Group F

12-03F-3-TGN
- Mini UHF Male Crimp
- Teflon Insulation, Gold Captive Pin
- Nickel Plated Body, Knurled, Push-on
- for TCC Cable Group F

12-03L-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group L

12-03F-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group F

12-03L2-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group L2

12-03T-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group T

12-03Y-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group Y

12-03Z-DGN
- Mini UHF Male Crimp
- Delrin Insulation, Gold Pin, Nickel Plated Body, Knurled
- for TCC Cable Group Z

12-04-DGN
- Mini UHF Female Bulkhead
- Front Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Soldering
12-23-TGN  Mini UHF Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

12-25-TGN  Mini UHF Adapter, Mini UHF Male to Mini UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body, Push-on

12-26-TGN  Mini UHF Adapter, Mini UHF Male to TNC Male, Teflon Insulation, Gold Pin, Nickel Plated Body

12-28F-1-TGBC  Mini UHF Male Crimp, Teflon Insulation, Gold Pin, Black Chrome Plated Body, Right Angle, for TCC Cable Group F

12-28F-3-TGBC  Mini UHF Male Crimp, Teflon Insulation, Gold Pin, Black Chrome Plated Body, Right Angle, Push-on, for TCC Cable Group F
13 series - BNC type connector Technical Characteristics

Electrical:
- Impedance: 50 Ω 75 Ω
- Frequency Range: 0-4Ghz 0-1Ghz
- Dielectric Withstanding Voltage: 1000 VRMS max.

VSWR:
- Straight: 1.3 max.
- Right Angle: 1.5 max.

Contact Resistance:
- Center Contact: ≤ 3 Milli Ω
- Outer Contact: ≤ 2 Milli Ω
- Insulator Resistance: ≥ 5000 Meg Ω

13-01F-3-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

13-01G-3-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group G

13-01G-6-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, Speed Plug, for TCC Cable Group G

13-01L-3-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

13-01M-3-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group M

13-01Z-3-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

13-04B-2-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group B

13-04C-2-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group C

13-04T-2-DGN
BNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group T

13-07F-DGN
BNC Female Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-07G-DGN</td>
<td>BNC Female Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group G</td>
</tr>
<tr>
<td>13-10A-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group A</td>
</tr>
<tr>
<td>13-10F-1-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group F</td>
</tr>
<tr>
<td>13-10F-31-DGNZ</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Die Cast Shell, for TCC Cable Group F</td>
</tr>
<tr>
<td>13-10F-RP-TGN</td>
<td>BNC Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group F</td>
</tr>
<tr>
<td>13-10G-1-DGN</td>
<td>BNC Male, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group G</td>
</tr>
<tr>
<td>13-10G-DGNZ</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, Die Cast Shell, for TCC Cable Group G</td>
</tr>
<tr>
<td>13-10L-1-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group L</td>
</tr>
<tr>
<td>13-10L1-1-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group L1</td>
</tr>
<tr>
<td>13-10L2-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group L2</td>
</tr>
<tr>
<td>13-10L2-RP-TGN</td>
<td>BNC Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group L2</td>
</tr>
<tr>
<td>13-10T-1-DGN</td>
<td>BNC Male Crimp, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, for TCC Cable Group T</td>
</tr>
<tr>
<td>13-10T-RP-TGN</td>
<td>BNC Male Crimp, Teflon Insulation, Gold Captive Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group T</td>
</tr>
<tr>
<td>13-10Y-1-DGN</td>
<td>BNC Male, Delrin Insulation, Gold Captive Pin, Nickel Plated Body, proflex, for TCC Cable Group Y</td>
</tr>
</tbody>
</table>
13 series

13-10Z-1-DGN
BNC Male Crimp, Delrin Insulation,
Gold Captive Pin, Nickel Plated Body,
for TCC Cable Group Z

13-11F-DGN
BNC Female Crimp Bulkhead Rear Mount, Delrin Insulation,
Gold Pin, Nickel Plated Body,
for TCC Cable Group F

13-11F-RP-DGN
BNC Female Crimp Bulkhead Rear Mount, Delrin Insulation,
Gold Pin, Nickel Plated Body,
Reverse Polarity,
for TCC Cable Group F

13-11G-DGN
BNC Female Crimp Bulkhead Rear Mount, Delrin Insulation,
Gold Pin, Nickel Plated Body,
for TCC Cable Group G

13-11L-TGN
BNC Female Crimp Bulkhead Rear Mount, Teflon Insulation,
Gold Pin, Nickel Plated Body,
for TCC Cable Group L

13-15F-1-DGN
BNC Female Crimp, Delrin Insulation,
Gold Captive Pin, Nickel Plated Body,
for TCC Cable Group F

13-15F-RP-TGN
BNC Female Crimp, Teflon Insulation, Gold Captive Pin,
Nickel Plated Body,
Reverse Polarity,
for TCC Cable Group F

13-15G-1-DGN
BNC Female Crimp, Teflon Insulation, Gold Captive Pin,
Nickel Plated Body,
for TCC Cable Group G

13-15T-RP-TGN
BNC Female Crimp, Teflon Insulation, Gold Captive Pin,
Nickel Plated Body,
Reverse Polarity,
for TCC Cable Group T

13-17F-1-DGN
BNC Male Twist-on, Delrin Insulation, Gold Pin,
Nickel Plated Body, Formed Pin,
for TCC Cable Group F

13-17G-1-DGN
BNC Male Twist-on, Delrin Insulation, Gold Pin,
Nickel Plated Body, Formed Pin,
for TCC Cable Group G

13-18F-DGN
BNC Female Twist-on, Delrin Insulation, Gold Pin,
Nickel Plated Body,
for TCC Cable Group F

13-18G-DGN
BNC Female Twist-on, Delrin Insulation, Gold Pin,
Nickel Plated Body,
for TCC Cable Group G

13-19F-TGN
BNC, Teflon Insulation, Gold Pin, Nickel Plated Body, Taper grip,
for TCC Cable Group F
13-21S-TGN
BNC Male 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body

13-22-1-TGN
BNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, PC Mount

13-22-DGN
BNC Female 4 hole Panel Mount, Delrin Insulation, Gold Pin, Nickel Plated Body

13-24-DGN
BNC Male Bulkhead Rear Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Soldering

13-25-DGN
BNC Female Bulkhead Front Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Soldering

13-25-DGNZ
BNC Female Bulkhead Rear Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Die Cast

13-25-TGG
BNC Female Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Gold Plated Body, Soldering

13-25-TGN
BNC Female Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

13-28-AGN
BNC Female Bulkhead Rear Mount, ABS Insulation, Gold Pin, Nickel Plated Body, Insulated ground

13-29-1-DGN
BNC Adapter, BNC Female to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

13-30-DGNZ
BNC Adapter, BNC Male to BNC Male, Delrin Insulation, Gold Pin, Nickel Plated Body, Die Cast

13-32-3-DGN
BNC Adapter, BNC Female to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

13-33-DGN
BNC Adapter, BNC Male to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle

13-37-2-DGN
BNC T-Adapter, BNC Female to BNC Female to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body
14 series - RCA type connectors

Electrical:
- Frequency Range: 20 Hz - 20 kHz
- Dielectric Withstanding Voltage: 500 VRMS max.
- Contact Resistance: Center Contact: $\leq 0.03 \, \Omega$
- Insulator Resistance: $\geq 100 \, \text{Meg} \, \Omega$

14-02F-DNN
RCA Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group F

14-04-DNN
RCA Adapter, RCA Male to UHF Female, Delrin Insulation, Nickel Plated Body, Nickel Pin

14-05-DNN
RCA Adapter, RCA Male to BNC Female, Delrin Insulation, Nickel Plated Body, Nickel Pin

14-04-DNN
RCA Adapter, RCA Male to UHF Female, Delrin Insulation, Nickel Plated Body, Nickel Pin

14-31-DGG
RCA Adapter, RCA Male to RCA Female, Delrin Insulation, Gold Pin, Gold Plated Body, Right Angle

14-32-DGG
RCA T-Adapter, RCA Male to RCA Female to RCA Female, Delrin Insulation, Gold Pin, Gold Plated Body

14-37-PGGR
RCA Male Crimp, Polypropylene Insulation, Gold Pin, Gold Plated Body, Universal Banana

14-39-TGGR
RCA Bulkhead Mount, Teflon Insulation, Gold Pin, Gold Plated Body, Soldering, Red

14-40-PGGO
RCA Female Bulkhead Mount, Polypropylene Insulation, Gold Pin, Gold Plated Body, Soldering, Orange

14-40-PGGR
RCA Female Bulkhead Mount, Polypropylene Insulation, Gold Pin, Gold Plated Body, Soldering, Red

14-40-PGGW
RCA Female Bulkhead Mount, Polypropylene Insulation, Gold Pin, Gold Plated Body, Soldering, White
15 series - TNC type connector Technical Characteristics

**Electrical:**
- Impedance: 50 Ω
- Frequency Range: 0-4Ghz
- Dielectric Withstanding Voltage: 500 VRMS max.

**VSWR:**
- Straight: 1.3 max.
- Right Angle: 1.5 max.

**Contact Resistance:**
- Center Contact: ≤ 3 Milli Ω
- Outer Contact: ≤ 2 Milli Ω
- Insulator Resistance: ≥ 5000 Meg Ω

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**15-02F-4-DGN**
TNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group F

**15-03F-DGN**
TNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

**15-03Z-DGN**
TNC Male Clamp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Z

**15-10B-1-DGN**
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group B

**15-10F-1-DGBC**
TNC Male Crimp, Delrin Insulation, Gold Pin, Black Chrome Plated Body, for TCC Cable Group F

**15-10F-1-DGN**
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

**15-10F-1-TGN**
TNC Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

**15-10F-31-DGNZ**
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Die Cast, for TCC Cable Group F

**15-10F-8-DGN**
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Push-on, for TCC Cable Group F

**15-10F-R-DGN**
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group F
15-15Y-1-DGN
TNC Female Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group Y

15-16F-4-DGN
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group F

15-16F-4R-DGN
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, Reverse Thread, for TCC Cable Group F

15-19F-DGN
TNC Male Twist-on, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

15-16T-H-TGN
TNC Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Hex Shell, Right Angle, for TCC Cable Group T

15-16F-4-DGN
TNC Male Crimp, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group F

15-16T-H-TGN
TNC Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Hex Shell, Right Angle, for TCC Cable Group T

15-28-DGN
TNC Female Bulkhead Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, Soldering

15-19F-DGN
TNC Male Twist-on, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

15-28-DGN
TNC Female Bulkhead Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, Soldering

15-29-1-DGN
TNC Female Bulkhead Rear Mount, Delrin Insulation, Gold Pin, Nickel Plated Body, Soldering

15-29-1-TGN
TNC Bulkhead Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

15-30-TGN
TNC Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

15-31-TGN
TNC Adapter, TNC Male to TNC Male, Teflon Insulation, Gold Pin, Nickel Plated Body

15-33-DGN
TNC Adapter, TNC Female to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

15-34-DGN
TNC Adapter Bulkhead Mount, TNC Female to TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body

15-35-1-DGN
TNC Adapter, TNC Male to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle

15-38-DGN
TNC T-Adapter, TNC Female to TNC Male to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body
15 series

**15-40-DGN**
TNC T-Adapter, TNC Female to TNC Female to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-44-DGN**
TNC Adapter, TNC Male to N Female, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-45-1-DGN**
TNC Adapter, TNC Male to UHF Female, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-46-DGN**
TNC Adapter, TNC Male to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-49-1-DGN**
TNC Adapter, TNC Male to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body, Push-on

**15-49-DGN**
TNC Adapter, TNC Male to TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-50-DGN**
TNC Adapter, TNC Female to F Male, Delrin Insulation, Gold Pin, Nickel Plated Body

**15-57-TGN**
TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, Technophone Antenna Adaptor

**15-60-32-DGNZ**
TNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, PCB Mount, Die Cast

**15-60-TGBN**
TNC Female, Teflon Insulation, Gold Pin, Black Nickel Plated Body, NEC Antenna Adaptor

**15-60-TGN**
TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, NEC Antenna Adaptor

**15-61-TGN**
TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, Nokia Antenna Adaptor
17 series - UHF type connector Technical Characteristics

Electrical:
- Impedance: Non-constant
- Frequency Range: 0-300MHz
- VSWR: Non-constant

17-01C-5-TGN
UHF Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group C

17-01F-5-TGN
UHF Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

17-03B-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group B

17-03C-7-DSS
UHF Male Crimp, Delrin Insulation, Silver Pin, Silver Plated Body, for TCC Cable Group C

17-03D-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group D

17-03F-16-BSN
UHF Male, Bakelite Insulation, Silver Pin, Nickel Plated Body, Push-on; for TCC Cable Group F

17-03F-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group F

17-03F-7-DSS
UHF Male Crimp, Delrin Insulation, Silver Pin, Silver Plated Body, for TCC Cable Group F

17-03G-13-BSN
UHF Male Twist-on, Bakelite Insulation, Silver Pin, Nickel Plated Body, for TCC Cable Group G

17-03F-7-TSS
UHF Male Crimp, Teflon Insulation, Silver Captive Pin, Silver Plated Body, for TCC Cable Group F
17 series

17-03G-7-DNN
UHF Male Crimp, Delrin Insulation, Silver Plated Body, Nickel Pin, for TCC Cable Group G

17-03L1-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group L1

17-03L2-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group L2

17-03T-7-DNN
UHF Male, Delrin Insulation, Nickel Plated Body, for TCC Cable Group T

17-03Y-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, proflex, for TCC Cable Group Y

17-03Z-7-DNN
UHF Male Crimp, Delrin Insulation, Nickel Plated Body, Nickel Pin, for TCC Cable Group Z

17-03Z-7-DSS
UHF Male Crimp, Delrin Insulation, Silver Pin, Silver Plated Body, for TCC Cable Group Z

17-05F-1-DGN
UHF Female Twist-on, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group F

17-06B-1-TSSN
UHF Male, Teflon Insulation, Silver Pin, Silver Plated Body, Nickel Shell, for TCC Cable Group B

17-06B-1-TSSS
UHF Male, Teflon Insulation, Silver Pin, Silver Plated Body, Silver Shell, for TCC Cable Group B

17-06B-BSSZ
UHF Male, Bakelite Insulation, Silver Pin, Silver Plated Body, Nickel Shell, Silver Pin, Die Cast, for TCC Cable Group B

17-06B-BSSN
UHF Male, Bakelite Insulation, Silver Pin, Silver Plated Body, Nickel Shell, for TCC Cable Group B

17-07-1-DSN
UHF Female Bulkhead Mount, Delrin Insulation, Silver Pin, Nickel Plated Body, Longer Barrel

17-07-31-PSNZ
UHF Female Bulkhead Mount, PBT Insulation, Silver Pin, Nickel Plated Body, Die Cast
### 17 series UHF

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>17-11-TGNZ</strong></td>
<td>UHF Adapter , UHF Female to UHF Female , Teflon Insulation, Gold Pin, Nickel Plated Body, Nickel Pin,16 cuts</td>
</tr>
<tr>
<td><strong>17-12-1-DNN</strong></td>
<td>UHF Adapter Bulkhead Mount, UHF Female to UHF Female, Delrin Insulation, Nickel Plated Body, Nickel Pin</td>
</tr>
<tr>
<td><strong>17-12-2-DNN</strong></td>
<td>UHF Adapter Bulkhead Mount, UHF Female to UHF Female, Delrin Insulation, Nickel Plated Body, Nickel Pin, without nuts</td>
</tr>
<tr>
<td><strong>17-12-TGN</strong></td>
<td>UHF Adapter Bulkhead Mount, UHF Female to UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body</td>
</tr>
<tr>
<td><strong>17-12-TSS</strong></td>
<td>UHF Adapter Bulkhead Mount, UHF Female to UHF Female, Teflon Insulation, Silver Pin, Silver Plated Body</td>
</tr>
<tr>
<td><strong>17-13-DNN</strong></td>
<td>UHF T-Adapter, UHF Male to UHF Female, Delrin Insulation, Nickel Plated Body, Nickel Pin</td>
</tr>
<tr>
<td><strong>17-14-DSN</strong></td>
<td>UHF T-Adapter, UHF Female to UHF Female, Delrin Insulation, Silver Pin, Nickel Plated Body</td>
</tr>
<tr>
<td><strong>17-15-DGN</strong></td>
<td>UHF Adapter, UHF Male to UHF Female, Delrin Insulation, Gold Pin, Nickel Plated Body, Right Angle</td>
</tr>
<tr>
<td><strong>17-15-TGS</strong></td>
<td>UHF Adapter, UHF Male to UHF Female, Teflon Insulation, Gold Pin, Silver Plated Body, Right Angle</td>
</tr>
<tr>
<td><strong>17-18-DGN</strong></td>
<td>UHF Adapter, UHF Male to N Female, Delrin Insulation, Gold Pin, Nickel Plated Body</td>
</tr>
<tr>
<td><strong>17-18-TGS</strong></td>
<td>UHF Adapter, UHF Male to N Female, Teflon Insulation, Gold Pin, Silver Plated Body</td>
</tr>
<tr>
<td><strong>17-19-DGN</strong></td>
<td>UHF Adapter, UHF Male to BNC Female, Delrin Insulation, Gold Pin, Nickel Plated Body</td>
</tr>
<tr>
<td><strong>17-19-DNN</strong></td>
<td>UHF Adapter, UHF Male to BNC Female, Delrin Insulation, Nickel Plated Body, Nickel Pin</td>
</tr>
</tbody>
</table>
19 series - SMA type connector Technical Characteristics

Electrical:
- Impedance: 50 Ω
- Frequency Range: 0-18Ghz
- VSWR: Straight: 1.3 max., Right Angle: 1.5 max.
- Dielectric Withstanding Voltage: 1000 VRMS max.

Contact Resistance:
- Center Contact: ≤ 5 Milli Ω
- Outer Contact: ≤ 1 Milli Ω

Insulator Resistance: ≥ 5000 Meg Ω

19-01F-TGN
SMA Male Clamp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

19-02F-6-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group F

19-02L-6-TGN
SMA Male, Teflon Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group L

19-02L-RP-TGG
SMA Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Reverse Polarity, for TCC Cable Group L

19-03F-1-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

19-03F-R-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group F

19-03F-RP-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group F

19-03L-1-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

19-03L-9-TGG
SMA Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group L

19-03L-RP-TGG
SMA Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Reverse Polarity, for TCC Cable Group L
SMA

19-03L-RP-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group L

19-03L1-1-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L1

19-03L1-R-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group L1

19-03L2-9-TGG
SMA Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group L2

19-03L2-RP-TGG
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group L2

19-03L2-R-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group L2

19-03T-RP-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group T

19-03T-TGN
SMA Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group T

19-04L-TGN
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

19-05F-1-TGN
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

19-05F-9-TGG
SMA Female Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group F

19-05F-RP-TGN
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group F
19 series

**SMA Female Crimp**, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

**19-05L1-1-TGN**
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group L1

**19-05L2-1-TGN**
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group L2

**19-05S1-RP-TGN**
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Polarity, for TCC Cable Group S1

**19-05S1-R-TGN**
SMA Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, for TCC Cable Group S1

**19-13-EX-TGN**
SMA Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

**19-13-RP-TGN**
SMA Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

**19-13-TGN**
SMA Female 4 hole Panel Mount, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-16-1-TGN**
SMA Female Bulkhead Mount, Rear Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

**19-16-R-TGN**
SMA Female Bulkhead Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Reverse Thread, Soldering

**19-16-TGN**
SMA Female Bulkhead Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering
19 series

**19-31-1-TGN**
SMA Adapter, SMA Male to TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-32-TGN**
SMA Adapter, SMA Male to Mini UHF Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-33-TGN**
SMA Adapter, SMA Male to Mini UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-34-1-TGN**
SMA Adapter, SMA Female to N Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-35-1-TGN**
SMA Adapter, N Female to SMA Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-36-TGN**
SMA Adapter, SMA Female to UHF Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-37-TGN**
SMA Adapter, SMA Female to UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-38-TGN**
SMA Adapter, SMA Female to BNC Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-39-TGN**
SMA Adapter, SMA Female to BNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-40-TGN**
SMA Adapter, SMA Female to TNC Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-41-3-TGBN**
SMA Adapter, SMA Female to TNC Female, Teflon Insulation, Gold Pin, Black Nickel Plated Body

**19-41-3-TGN**
SMA Adapter, SMA Female to TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-42-TGN**
SMA Adapter, SMA Female to Mini UHF Male, Teflon Insulation, Gold Pin, Nickel Plated Body

**19-43-1-TGN**
SMA Adapter, SMA Female to Mini UHF Female, Teflon Insulation, Gold Pin, Nickel Plated Body
23 series - FME type connector Technical Characteristics

Electrical:
- Impedance: 50 Ω
- Frequency Range: 0-3Ghz
- Dielectric Withstanding Voltage: 1000 VRMS min.

VSWR:
- Straight: 1.3 max.
- Right Angle: 1.5 max.

Contact Resistance:
- Center Contact: ≤ 10 Milli Ω
- Outer Contact: ≤ 5 Milli Ω

Insulator Resistance: ≥ 5000 Meg Ω

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23-02FW-DGN  FME Female Crimp, Delrin Insulation, for TCC Cable Group L

23-02L-DGN  FME Crimp, Delrin Insulation, for TCC Cable Group L

23-02L2-DGN  FME Female Crimp, Delrin Insulation, for TCC Cable Group L2

23-02T-DGN  FME Female Crimp, for TCC Cable Group T

23-03-DGN  FME Adapter, FME Male to FME Male, Delrin Insulation

23-04-3-TGN  Adapter, FME Male to SMA Female, Teflon Insulation

23-05-DGN  FME Adapter, FME to Mini UHF, Delrin Insulation

23-06-TGN  FME Adapter, FME to BNC, Teflon Insulation

23-07F-TGN  FME Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group F

23-07L-2-TGN  FME Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L
**24 series - SMB type connector Technical Characteristics**

**Electrical:**
- **Impedance:** 50 Ω
- **Frequency Range:** 0-4Ghz
- **Dielectric Withstanding Voltage:** 1000 VRMS min.
- **VSWR:**
  - Straight: 1.3 max.
  - Right Angle: 1.5 max.
- **Contact Resistance:**
  - Center Contact: ≤ 6 Milli Ω
  - Outer Contact: ≤ 2.5 Milli Ω
  - Insulator Resistance: ≥ 1000 Meg Ω

---

**24-05L-TGG**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group L

**24-05L-TGN**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

**24-05M-TGG**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group M

**24-06L-TGN**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, for TCC Cable Group L

**24-07L-TGG**
- SMB Female Crimp, Bulkhead Mount, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group L

**24-07L-TGN**
- SMB Female Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group L

**24-08L-TGG**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Right Angle, for TCC Cable Group L

**24-08L-TGN**
- SMB Male Crimp, Teflon Insulation, Gold Pin, Nickel Plated Body, Right Angle, for TCC Cable Group L

**24-09-TGN**
- SMB Female Bulkhead Mount, Teflon Insulation, Gold Pin, Nickel Plated Body, Soldering

**24-18L-TGG**
- SMB Female Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Right Angle, for TCC Cable Group L
### 26 series - SMC type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>0-10Ghz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
</tr>
<tr>
<td>Straight</td>
<td>1.3 max.</td>
</tr>
<tr>
<td>Right Angle</td>
<td>1.5 max.</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td></td>
</tr>
<tr>
<td>Center Contact</td>
<td>≤ 6 Milli Ω</td>
</tr>
<tr>
<td>Outer Contact</td>
<td>≤ 2.5 Milli Ω</td>
</tr>
<tr>
<td>Insulator Resistance</td>
<td>≥ 1000 Meg Ω</td>
</tr>
</tbody>
</table>

**26-01-L2-TGN**
- Male Crimp, Teflon Insulation,
- Gold Pin, Nickel Plated Body,
- 1.0/2.3 Push Pull,
- for TCC Cable Group L2

### 27 series - MCX type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>0-6Ghz</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
</tr>
<tr>
<td>Straight</td>
<td>1.3 max.</td>
</tr>
<tr>
<td>Right Angle</td>
<td>1.5 max.</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td></td>
</tr>
<tr>
<td>Center Contact</td>
<td>≤ 5 Milli Ω</td>
</tr>
<tr>
<td>Outer Contact</td>
<td>≤ 2.5 Milli Ω</td>
</tr>
<tr>
<td>Insulator Resistance</td>
<td>≥ 1000 Meg Ω</td>
</tr>
</tbody>
</table>

**27-01L-TGG**
- MCX Male Crimp, Teflon Insulation,
  Gold Pin, Gold Plated Body,
  for TCC Cable Group L

**27-02L-TGG**
- MCX Male Crimp, Teflon Insulation, Gold Pin,
  Gold Plated Body, Right Angle,
  for TCC Cable Group L
### 28 series - MMCX type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Electrical:</th>
<th>Impedance:</th>
<th>50 Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range:</td>
<td>0-6Ghz</td>
<td></td>
</tr>
<tr>
<td>VSWR:</td>
<td>Straight:</td>
<td>1.3 max.</td>
</tr>
<tr>
<td></td>
<td>Right Angle:</td>
<td>1.5 max.</td>
</tr>
<tr>
<td>Contact Resistance:</td>
<td>Center Contact:</td>
<td>≤ 5 Milli Ω</td>
</tr>
<tr>
<td></td>
<td>Outer Contact:</td>
<td>≤ 2.5 Milli Ω</td>
</tr>
<tr>
<td></td>
<td>Insulator Resistance:</td>
<td>≥ 1000 Meg Ω</td>
</tr>
</tbody>
</table>

### 29 series - MC Card type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Electrical:</th>
<th>Impedance:</th>
<th>50 Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range:</td>
<td>0-6Ghz</td>
<td></td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage:</td>
<td>1000 VRMS max.</td>
<td></td>
</tr>
</tbody>
</table>

### Parts

- **28-01L-TGG**: MMCX Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, for TCC Cable Group L
- **28-02L-9-TGG**: MMCX Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Right Angle, for TCC Cable Group L
- **29-02L-TGG**: MC Card Male Crimp, Teflon Insulation, Gold Pin, Gold Plated Body, Right Angle, for TCC Cable Group L
### 30 series - 7/16 DIN type connector Technical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impedance</strong></td>
<td>50 Ω</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>0-7.5Ghz</td>
</tr>
<tr>
<td><strong>Dielectric Withstanding Voltage</strong></td>
<td>4000 VRMS min.</td>
</tr>
<tr>
<td><strong>VSWR</strong></td>
<td></td>
</tr>
<tr>
<td>Straight</td>
<td>1.3 max.</td>
</tr>
<tr>
<td>Right Angle</td>
<td>1.5 max.</td>
</tr>
<tr>
<td><strong>Contact Resistance</strong></td>
<td></td>
</tr>
<tr>
<td>Center Contact</td>
<td>≤ 0.4 Milli Ω</td>
</tr>
<tr>
<td>Outer Contact</td>
<td>≤ 1.5 Milli Ω</td>
</tr>
<tr>
<td>Insulator Resistance</td>
<td>≥ 5000 Meg Ω</td>
</tr>
</tbody>
</table>

#### Connector Examples

- **30-01L6-TSSN**: 7/16 DIN Male Clamp, Teflon Insulation, Silver Pin, Nickel Plated Body, Knurled, for TCC Cable Group L6

- **30-01T-TSSN**: 7/16 DIN Male Clamp, Teflon Insulation, Silver Pin, Nickel Plated Body, Knurled, for TCC Cable Group T

- **30-02T-TSSN**: 7/16 DIN Female Crimp, Teflon Insulation, Silver Pin, Nickel Plated Body, for TCC Cable Group T

- **30-03L6-TSSN**: 7/16 DIN Male Crimp, Teflon Insulation, Silver Pin, Nickel Plated Body, Knurled, for TCC Cable Group L6

- **30-04L6-TSSN**: 7/16 DIN Female Crimp, Teflon Insulation, Silver Pin, Nickel Plated Body, for TCC Cable Group L6

- **30-06T-TSSN**: 7/16 DIN Female Clamp, Teflon Insulation, Silver Pin, Silver Plated Body, Right Angle and Straight, for TCC Cable Group T

- **30-12-TSSN**: 7/16 DIN Adapter, 7/16 DIN Male to N Female, Teflon Insulation, Silver Pin, Nickel Plated Body, Knurled

- **30-17-TSS**: 7/16 DIN Male 4 hole Panel Mount, Teflon Insulation, Silver Pin, Silver Plated Body, Knurled, Soldering

- **30-19-TSS**: 7/16 DIN Female 4 hole Panel Mount, Teflon Insulation, Silver Pin, Silver Plated Body, Soldering

- **30-21-TGSN**: 7/16 DIN Adapter, 7/16 DIN Male to SMA Female, Teflon Insulation, Gold Pin, Nickel Plated Body
### 34 series - Surge Protectors Technical Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance:</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Frequency Range:</td>
<td>3Ghz 6Ghz</td>
</tr>
<tr>
<td>VSRW:</td>
<td>1.5 max 1.5max</td>
</tr>
<tr>
<td>Max Withstand Current:</td>
<td>5KV 5KV</td>
</tr>
<tr>
<td>RF Power Rating:</td>
<td>15W 15W</td>
</tr>
<tr>
<td>Breakdown Voltage:</td>
<td>90V±15%</td>
</tr>
<tr>
<td>Impulse Breakdown:</td>
<td>≤700V</td>
</tr>
<tr>
<td>Insulation Resistance:</td>
<td>≥10000 Meg Ω</td>
</tr>
</tbody>
</table>

#### Surge Protector Adapters

- **34-11-FF3-TGN**: Surge Protector Adapter, N Female to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 3GHz
- **34-11-FF6-TGN**: Surge Protector Adapter, N Female to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 6GHz
- **34-11-MF3-TGN**: Surge Protector Adapter, N Male to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 3GHz
- **34-15-MF3-TGN**: Surge Protector Adapter, TNC Male to TNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 3GHz
- **34-11-MF6-TGN**: Surge Protector Adapter, N Male to N Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 6GHz
- **34-13-FF1-TGN**: Surge Protector Adapter, BNC Female to BNC Female, Teflon Insulation, Gold Pin, Nickel Plated Body, 1GHz
- **34-TUBE-230**: Gas Tube for Lightning Surge Protector
25-AK-30-TGN Adapter Kit

A time saver for those unique instances where you are required to make connections with different connector types. These adapters are made from high quality materials to ensure best performance and low insertion loss. Packaged in a soft, compact zippered case for easy mobility.

This 30 Piece Kit Contains: 6 universal centers, 2 UHF males, 2 UHF females, 2 Mini-UHF males, 2 Mini-UHF females, 2 N males, 2 N females, 2 BNC males, 2 BNC females, 2 TNC males, 2 TNC females, 2 SMA males, 2 SMA females

25-AK-30-TGN-WiFi Adapter Kit

All of the convenience and quality of our original adapter kit but with WiFi specific components. This version comes with MMCX, reverse polarity SMAs, and reverse polarity TNCs for easier wireless LAN interconnects.

This 30 Piece Kit Contains: 6 universal centers, 2 N males, 2 N females, 2 TNC males, 2 TNC females, 2 SMA males, 2 SMA females, 1 BNC male, 1 BNC female, 1 MMCX male, 1 MMCX female, 2 Rev Polarity SMA males, 2 Rev Polarity TNC males, 2 Rev Polarity TNC females
The 20 series consists of individual parts, when you don’t need a complete connector but just the ferrule. There are also strain reliefs, nuts, and washers available as stand alone items. Displayed is just a sampling of the parts available, please contact us and ask a salesperson if you need something and it is not displayed here.
20 series Parts

- **20-L2-N**: Nickel Plated Body, Ferrule, for TCC Cable Group L2
- **20-L6-N**: Nickel Plated Body, Ferrule for Cable Group L6
- **20-LUG-N**: Nickel Plated Body, 15.97mm
- **20-LUG-RA-N**: Nickel Plated Body, Lug
- **20-N-N**: Nickel Plated Body, Ferrule, for TCC Cable Group N
- **20-NUT-N**: Nickel Plated Body, 5/8
- **20-P-N**: Nickel Plated Body, Ferrule, for TCC Cable Group P
- **20-T-1-N**: Nickel Plated Body, Ferrule, Thick, for TCC Cable Group T
- **20-T-1-S**: Silver Plated Body, Ferrule, Thick, for TCC Cable Group T
- **20-T-N**: Nickel Plated Body, Ferrule, Thin, for TCC Cable Group T
- **20-T-S**: Silver Plated Body, Ferrule, Thin, for TCC Cable Group T
Crimping Tool Features

**Closing Rachet Action** keeps the pressure on and helps get the job done with much less effort on your part.

**Replacable Dies** allow for you to keep your crimps perfectly hexed and secure without needing to replace the entire tool.

**Adjustable Pressure** lets you choose how much force the tool will use.

**Wide Mouth Opening** allows for easy crimping of larger connectors and cables.

**Ergonomic Insulated Plastic Grips** keep your hands comfortable even when applying a lot of force.

### 31-CT-L6
- For use with TCC Cable Group L6
- Replacement crimp dies are not available for this tool
- 0.61” (15.5mm)

### 31-HT-236A
- For use with TCC Cable Groups F, G, and L
- 0.255” (6.48mm) 0.213” (5.41mm) 0.187” (4.75mm) 0.068” (1.72mm)

### 31-HT-301P
- For use with TCC Cable Groups F and G
- 0.244” (5.7mm) 0.205” (5.2mm) 0.036” (9.2mm)

### 31-HT-301T
- For use with TCC Cable Groups L and M
- 0.151” (3.84mm) 0.128” (3.25mm) 0.1” (2.54mm) 0.047” (1.19mm) 0.039” (0.99mm) 0.028” (0.71mm)

### 31-HT-336A
- For use with TCC Cable Groups F, G, and L
- 0.256” (6.5mm) 0.213” (5.41mm) 0.068” (1.72mm)
31 Series

Tools

31-HT-336B
For use with TCC Cable Groups F and K

0.244” (8.1mm) 0.205” (5.41mm) 0.036” (4.75mm)

31-HT-336G
For use with TCC Cable Groups F, G, L, and Z

0.255” (6.48mm) 0.213” (5.41mm) 0.137” (3.48mm) 0.1” (2.54mm) 0.068” (1.72mm) 0.043” (1.09mm)

31-HT-336I
For use with TCC Cable Groups A, F, G, and L

0.315” (8mm) 0.255” (6.48mm) 0.213” (5.41mm) 0.093” (2.36mm) 0.068” (1.72mm)

31-HT-336J
For use with TCC Cable Groups L and N

0.178” (4.52mm) 0.151” (3.84mm) 0.128” (3.25mm) 0.078” (1.98mm) 0.068” (1.72mm) 0.042” (1.07mm)

31-HT-336K
For use with TCC Cable Groups B, D, L, N, and T

0.429” (10.9mm) 0.128” (3.25mm) 0.1” (2.54mm)

Replacement Dies
All the tools in this section* have replacement crimp dies available. Additionally, all replacement dies will fit any one of the tool bodies* allowing you to have one tool that’s able to handle a large variety of different cable sizes and applications.

* excluding 31-CT-L6
31-HT-322S Cable Stripper Features

**Adjustable Blade Depth** allows adjustment for large or small cables.
**Adjustable Blade Spacing** allows for different strip lengths.
**Simple Operation**, just release the handle and the tool clamps onto the cable, rotate the tool around the cable to strip.

31-HT-322S

For use with TCC Cable Group B
Also works with RG 11

D = 6mm or 8mm

31-ST-510 Cable Stripper Features

**Simple Design**, no frills stripping tool gets the job done with minimum fuss. **Changable Blade Cartridges**, change the blade spacing by simply snapping a different blade cartridge in. **Inexpensive** enough to keep several around with different cartridges loaded.

31-ST-510

For use with TCC Cable Groups: F and G
10mm blade cartridges are available

D = 8mm
D = 10mm when using 10mm cartridge
TCC Power Products

Though you might think of TCC as just a connector company, did you know that we are also a leader in the design and manufacturing of low cost, high quality AC/DC Adapters, Chargers and DC/DC Converters.

In addition to those standard products TCC also fully supports our customers with outstanding design and manufacturing capabilities for custom products.

Since our inception in 1987 we have been and continue to be a leading supplier of power products to major OEMs and ODMs worldwide.

When you require high quality power solutions without going over budget, get the best with TCC.
TCC Custom Component Solutions

TCC specializes in developing custom components for your unique applications. We have mechanical engineers that can assist in designing components based on your exacting specifications and create custom solutions that solve your unique problems.

We support numerous design platforms such as AutoCAD, ProE, and SolidWorks, this ensures that we work in the medium that’s most comfortable to you and your business.

With such capabilities, TCC can offer you complete turnkey solutions which greatly speeds up your time to market response.

Contact us today and let TCC demonstrate our commitment to service and quality!
Cable Assemblies

Complete Assembled Products
TCC Contract Assembly

TCC offers world class contract assembly services. From concept through production and delivery we stand behind your products. Our engineers can help you bring your ideas to reality.

We have been and continue to be a reliable partner to major companies in the electronics and electrical industries. Put us to work for your company today!

We are compliant with the many international standards shown below and all of our manufacturing facilities are ISO 9002 certified, see images of our Taiwan facility on the next page.

Please contact us for more information regarding our contract assembly services.
Contact Us

Phone: 714.523.8885
Fax: 714.562.0888
Skype: TCCinc3
E-mail: TCCinfo@tccinc.com
Web: www.tccinc.com