# UHF Series

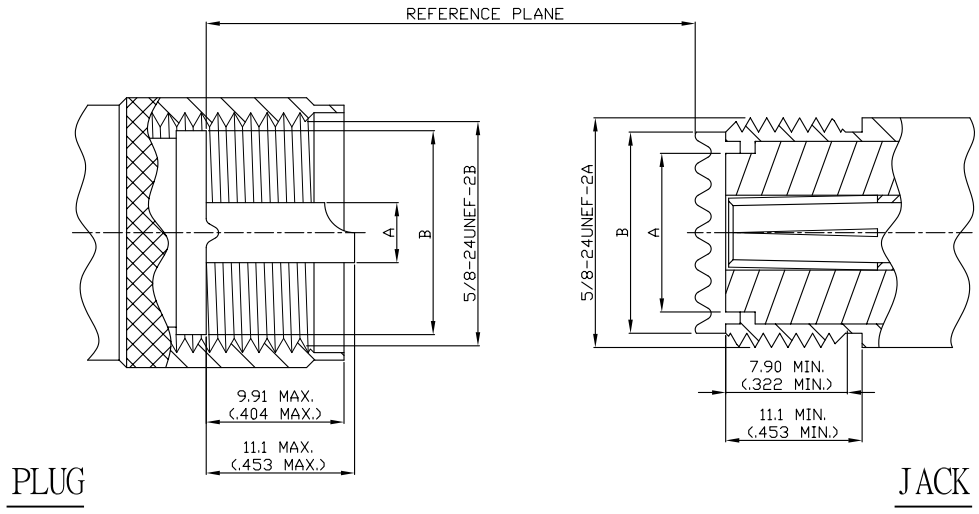
## UHF

UHF series is a low cost and low frequency connector, which is supplied with a threaded coupling interface. Because of the non-constant impedance, the maximum usable frequency of UHF connector is limited to 300MHz. Meanwhile, the plug version of UHF connector is generally referred to as the PL-259 connector due to its military part number designation. The UHF is suitable for the flexible cables up to 11.0mm (0.433? in diameter.

Applications:
*CB radios *public address systems *antennas

Interface dimensions conformable to the Standards:
International: IEC 169-12

UHF Interface Dimensions:




| UHF Series | | | | | | |
|---|---|---|---|---|---|---|
| | PLUG | | | JACK | | |
| | Minimum | Maximum | | Minimum | Maximum | |
| A | 3.91(.0.154) | 4.01(.158) | | 11.56(.064) | 12.22(.450) | A |
| B | 11.56(.471) | 12.22(.450) | | 14.00(.571) | 14.25(.581) | B |

*Millimeters(Inches)

Materials：

| Connector part | Material | Finish |
|---|---|---|
| Bodies | Brass | Nickel or Gold |
| Center Contact | Male: Brass<br>Female: Brass,<br>Phosphor Bronze, or<br>Beryllium Copper | Gold |
| Insulator | Delrin or Teflon | N/A |
| Crimp ferrule | Annealed Copper | Nickel or Gold |

Electrical：

| Electrical Data | Detail |
|---|---|
| Impedance | Non-constant |
| Frequency range | 0-300MHz |
| Working voltage | 500 votls rms max. |
| Insulation resistance | 5,000 megohms min. |
| Dielectric withstanding voltage | 1,500 volts rms min. |
| Contact resistance | Center contact: 3 Milliohms<br>Outer contact: 2 Milliohms |
| VSWR: f(GHz) | Not defined |

Mechanical：

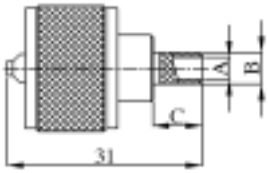
| Mechanical Data | Detail |
|---|---|
| Engagement force | 2 inch-pound max. |
| Disengagement force | 2 inch-pound max. |
| Connector durability | 500 cycles min. |
| Cable retention force | RG58, 141, 142, 223/U → 40 lbs min.<br>RG174, 188, 316/U → 20 lbs min. |

Environmental：

| Environmental Data | Detail |
|---|---|
| Corrosion (Salt spray) | MIL-STD-202 METHOD 101 TEST CONDITION B |
| Thermal shock | MIL-STD-202 METHOD 107 TEST CONDITION B |
| Vibration | MIL-STD-202 METHOD 204 TEST CONDITION A |
| Mechanical shock | MIL-STD-202 METHOD 213 TEST CONDITION I |
| Temperature range | -65℃ to 165℃ (Teflon) |

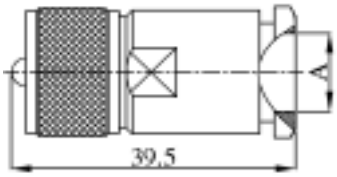
## UHF STRAIGHT PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE




| PART NUMBER | A | B | C | CABLE TYPE(RG/U) |
|---|---|---|---|---|
| UHF-04F-DGN | 3.2 | 4.5 | 7 | 58,58A,58C,141A |
| UHF-04G-DGN | 3.8 | 5.5 | 7.5 | 9B/U,214 |
| UHF-04B-DGN | 9.1 | 9.5 | 7.3 | 8A,213 |

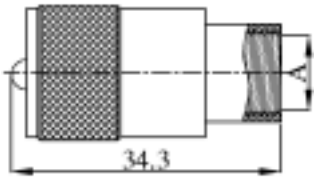
CLAMP FOR FLEXIBLE CABLE




| PART NUMBER | A | CABLE TYPE(RG/U) |
|---|---|---|
| UHF-01F-DGN | 5.3 | 58,58A,58C,141A |
| UHF-01G-DGN | 6.5 | 59,59A,59U,62A,210 |
| UHF-01B-DGN | 10.7 | 8A,213 |

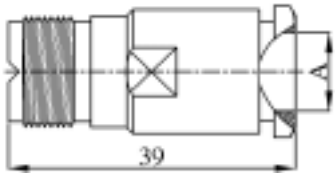
## UHF STRAIGHT PLUG TWIST ON

PL-259 SERIES



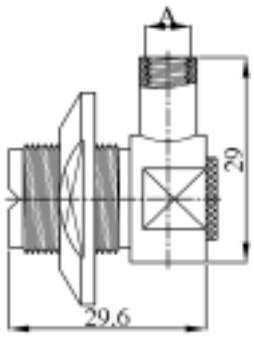

| PART NUMBER | A | CABLE TYPE(RG/U) |
|---|---|---|
| UHF-07F-DGN | 5.3 | 58,58A,58C,141A |
| UHF-07G-DGN | 6.5 | 59,59A,59U,62A,210 |
| UHF-07B-DGN | 10.7 | 8A,213 |

## UHF STRAIGHT JACK CLAMP FOR CABLE TYPE



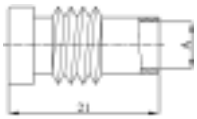

| PART NUMBER | A | CABLE TYPE(RG/U) |
|---|---|---|
| UHF-02F-DGN | 5.3 | 58,58A,58C,141A |
| UHF-02G-DGN | 6.5 | 59,59A,59U,62A,210 |
| UHF-02B-DGN | 10.7 | 8A,213 |

## UHF ANGLE JACK TWIST ON




| PART NUMBER | A | CABLE TYPE(RG/U) |
|---|---|---|
| UHF-06F-DGN | 5.3 | 58,58A,58C,141A |
| UHF-06G-DGN | 6.5 | 59,59A,59U,62A,210 |

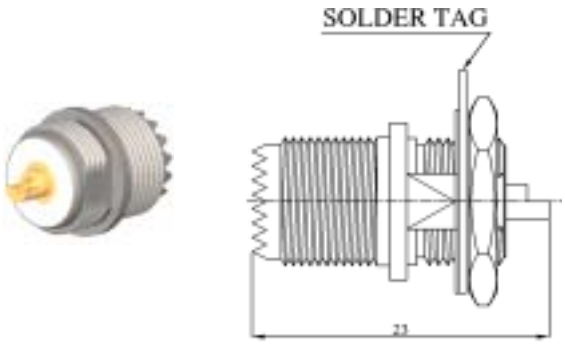
## REDUCER PL-259




| PART NUMBER | A | CABLE TYPE(RG/U) |
|---|---|---|
| UHF-08F-DGN | 5.3 | 58,58A,58C,141A |
| UHF-08G-DGN | 6.5 | 59,59A,59U,62A,210 |

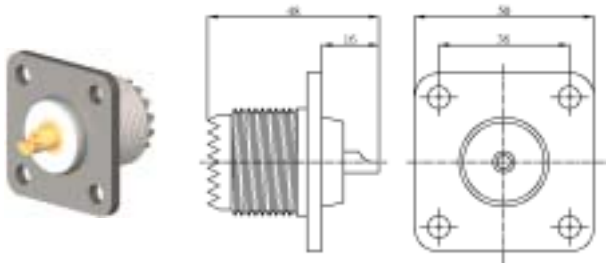
TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY

## UHF JACK BULKHEAD RECEPTACLE



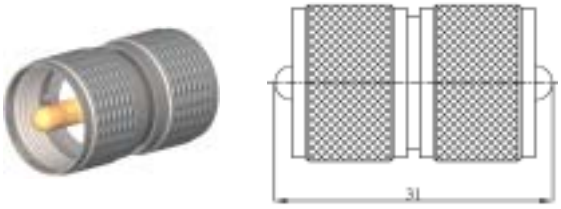

| PART NUMBER | UHF-09-DGN |
|---|---|

## UHF JACK PANEL RECEPTACLE



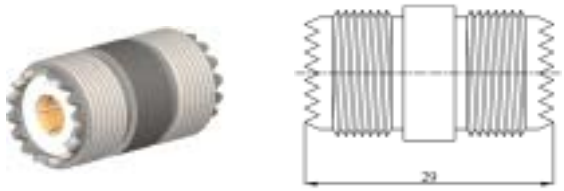
| PART NUMBER | UHF-10-DGN |
|---|---|

## UHF PLUG-PLUG ADAPTOR



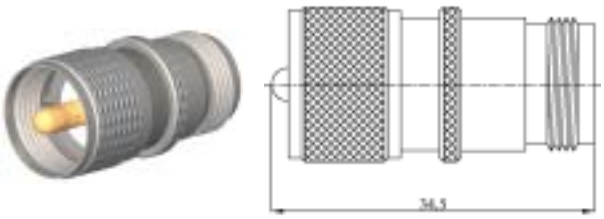

| PART NUMBER | UHF-11DGN |
|---|---|

## UHF JACK-JACK ADAPTOR



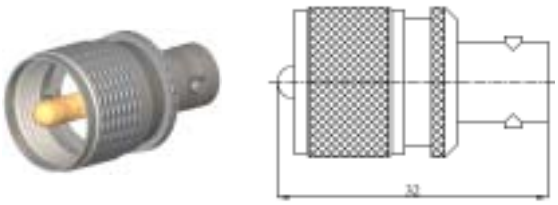

| PART NUMBER | UHF-12-DGN |
|---|---|

## UHF PLUG-N JACK ADAPTOR




| PART NUMBER | UHF-13-DGN |
|---|---|

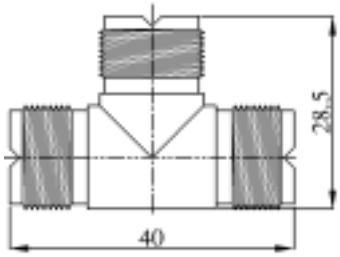
## UHF PLUG-BNC JACK ADAPTOR




| PART NUMBER | UHF-14-DGN |
|---|---|

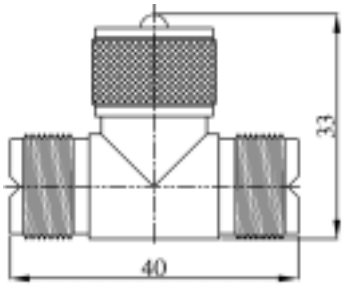
TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY

## UHF JACK-JACK-JACK ADAPTOR



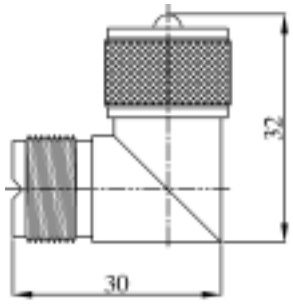

| PART NUMBER | UHF-15-DGN |
|---|---|

## UHF JACK-PLUG-JACK ADAPTOR



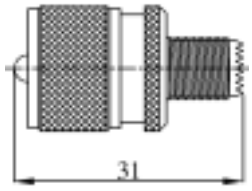

| PART NUMBER | UHF-16-DGN |
|---|---|

## UHF ANGLE PLUG-JACK ADAPTOR




| PART NUMBER | UHF-17-DGN |
|---|---|

## UHF PLUG-MINI UHF JACK ADAPTOR




| PART NUMBER | UHF-19-DGN |
|---|---|

TGN : TEFLON INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY
TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY
DGN : DELRIN INSULATION + GOLD PLATED CONTACT + NICKEL PLATED BODY