

RG174 Coaxial Cable Reverse Polarized SMA M-F 25.0 ft


Features for this product

- 50 Ohm cable used in spread spectrum LAN/WAN applications
- Gold plated contacts reduce insertion loss
- Reverse polarized male to female connector configuration ideal for LAN/WAN antenna relocation applications
- Available from stock in lengths of 5, 10, 15, 20 and 25 feet
- Reverse polarized SMA interfaces comply with FCC part 15.203 requirements



In situations that require an extension cable to relocate a wireless LAN antenna these are the cables you need. FCC part 15.203 dictates the need for a non standard interface to be used for connectors designed for use on spread spectrum wireless devices. These coaxial cable assemblies feature a reverse polarized SMA male to female configuration allowing you to simply remove the antenna from the base unit and relocate using these extension cables to link the antenna to the base unit. This type of extension cable with non standard interfaces can be difficult to find but are typically available in stock from L-com.

Details for this Coaxial product

| | |
|--------------|--|
| L-com Item # | CC174RP-25 |
| Manufacturer | L-com |
| UPC # | 822335004405 |
| RoHS Status | RoHS Compliant  |



| Item # | Description | NOMINAL ATTENUATION | | |
|---|--|---------------------|-----------|---------|
| RG223/U 50 Ohm Impedance | <ul style="list-style-type: none"> Center Conductor: 19 AWG solid silver coated copper Shielding: (2) Silver coated copper braid (95% coverage) Insulation: Polyethylene Jacket: Black PVC Operating Temperature: -40°C - +60°C | MHz | db/100 ft | db/100m |
| | | 50 | 2.8 | 9.2 |
| | | 100 | 4.1 | 13.5 |
| | | 200 | 6.0 | 23.9 |
| | | 400 | 8.8 | 28.9 |
| | | 1000 | 14.5 | 47.6 |

RG223/U - 50 Ohm Coaxial Cable with Two Inline Type N Plugs

| | |
|----------------------------|--|
| CC223N-1 | RG223 Cable, Type N Male / Male, 1.0 ft |
| CC223N-1.5 | RG223 Cable, Type N Male / Male, 1.5 ft |
| CC223N-2 | RG223 Cable, Type N Male / Male, 2.0 ft |
| CC223N-2.5 | RG223 Cable, Type N Male / Male, 2.5 ft |
| CC223N-5 | RG223 Cable, Type N Male / Male, 5.0 ft |
| CC223N-7.5 | RG223 Cable, Type N Male / Male, 7.5 ft |
| CC223N-10 | RG223 Cable, Type N Male / Male, 10.0 ft |
| CC223N-15 | RG223 Cable, Type N Male / Male, 15.0 ft |

Wireless Antenna Extension Cables - Reverse Polarized TNC and SMA Connectors

Handy cable assemblies with reverse polarized TNC and SMA male to female configurations allowing quick and easy extension of most wireless antennas to location best suited for optimal performance. Simply remove the antenna from the base unit and relocate using these extension cables to link the antenna to the base unit.



| Item # | Description | NOMINAL ATTENUATION | | |
|---|--|---------------------|-----------|---------|
| RG58C/U 50 Ohm Impedance | <ul style="list-style-type: none"> Center Conductor: 20 (19x33) AWG tinned copper Shielding: Tinned copper braid (95% coverage) Insulation: Polyethylene Jacket: Black PVC Operating Temperature: -40°C - +85°C | MHz | db/100 ft | db/100m |
| | | 50 | 3.3 | 10.8 |
| | | 100 | 4.9 | 16.1 |
| | | 200 | 7.3 | 23.9 |
| | | 400 | 11.0 | 36.1 |
| | | 1000 | 20.0 | 65.6 |

Reverse Polarized TNC on RG58C/U - Wireless Antenna Extension Cables

| | |
|---------------------------|---|
| CC58RP-5 | RG58C Cable, Reverse Polarized TNC Male / Female, 5.0 ft |
| CC58RP-10 | RG58C Cable, Reverse Polarized TNC Male / Female, 10.0 ft |
| CC58RP-15 | RG58C Cable, Reverse Polarized TNC Male / Female, 15.0 ft |
| CC58RP-20 | RG58C Cable, Reverse Polarized TNC Male / Female, 20.0 ft |
| CC58RP-25 | RG58C Cable, Reverse Polarized TNC Male / Female, 25.0 ft |



| Item # | Description | NOMINAL ATTENUATION | | |
|---|---|---------------------|-----------|---------|
| RG174/U 50 Ohm Impedance | <ul style="list-style-type: none"> Center Conductor: 26 (7x34) AWG bare copper covered steel Shielding: Tinned copper braid (90% coverage) Insulation: Polyethylene Jacket: Black PVC Operating Temperature: -40°C - +75°C | MHz | db/100 ft | db/100m |
| | | 50 | 5.8 | 19.0 |
| | | 100 | 8.4 | 27.6 |
| | | 200 | 12.5 | 41.0 |
| | | 400 | 19.0 | 62.3 |
| | | 1000 | 34.0 | 111.5 |

Reverse Polarized SMA on RG174 - Wireless Antenna Extension Cables

| | |
|----------------------------|---|
| CC174RP-5 | RG174 Cable, Reverse Polarized SMA Male / Female, 5.0 ft |
| CC174RP-10 | RG174 Cable, Reverse Polarized SMA Male / Female, 10.0 ft |
| CC174RP-15 | RG174 Cable, Reverse Polarized SMA Male / Female, 15.0 ft |
| CC174RP-20 | RG174 Cable, Reverse Polarized SMA Male / Female, 20.0 ft |
| CC174RP-25 | RG174 Cable, Reverse Polarized SMA Male / Female, 25.0 ft |

| Item # | Description | Cable | Attachment |
|--------|-------------|-------|------------|
|--------|-------------|-------|------------|

Reverse Polarized Coaxial Connectors

These connectors are designed for attachment to RG174/188/316 or RG58 cables and are ideal for applications where building your own cable assembly is the best solution.

| | | | |
|------------------------|---|---------------|-------|
| BAC500 | TNC Plug, Reverse Polarized | RG58 | Crimp |
| BAC501 | TNC Jack, Reverse Polarized | RG58 | Crimp |
| BAC502 | SMA Plug, Reverse Polarized | RG174/188/316 | Crimp |
| BAC503 | SMA Jack, Bulkhead, Reverse Polarized | RG174/188/316 | Crimp |
| BAC511 | MMCX Plug, Rt. Angle, Reverse Polarized | RG174/188/316 | Crimp |
| BAC512 | SMA Jack, Reverse Polarized | RG174/188/316 | Crimp |



Tip

Identifying a reverse polarized connector

A reverse polarized coaxial connector alters a standard connector interface by utilizing a male pin center conductor in a female threaded coupling mechanism and a female basket center conductor in a male threaded coupling nut mechanism. This prevents mating with a standard non-polarized connector. This type of connector is required by FCC part 15.203 rules for spread spectrum wireless devices. Common reverse polarized interfaces are RP-SMA and RP-TNC.

Male Threaded Coupling Nut Mechanism

Female Threaded Coupling Nut Mechanism

Female Basket

Male Pin Center Conductor