

## MISSION CRITICAL MOBILE ANTENNAS

DEFENCE / PUBLIC SAFETY / COVERT / MINING / RAIL / MARINE

UHF / VHF / Dual Band VHF & UHF / Cellular / Composite



V1.1



**BENELEC.AU**

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## UHF ANTENNAS

| SKU      | DESCRIPTION                                                              | FREQUENCY  | GAIN   | TERMINATION     | LENGTH (MM) |
|----------|--------------------------------------------------------------------------|------------|--------|-----------------|-------------|
| 02613    | Benelec UHF Flexible Mobile ¼ Wave GP Antenna - 20MHz BW (Feild Tunable) | 470-490MHz | 2.1dBi | AU BASE         | 154         |
| 02620IBK | Benelec UHF Black Mobile GP Antenna - 20MHz BW                           | 400-420MHz | 4.5dBi | AU BASE         | 763         |
| 02622IBK | Benelec UHF Black Mobile GP Antenna - 20MHz BW                           | 450-470MHz | 4.5dBi | AU BASE         | 710         |
| 02623IBK | Benelec UHF Black Mobile GP Antenna - 20MHz BW                           | 470-490MHz | 4.5dBi | AU BASE         | 670         |
| 02633QC  | Benelec UHF Mobile ½ Wave GPI Antenna M Base - 20MHz BW (Feild Tunable)  | 380-400MHz | 2.1dBi | M BASE UHF Plug | 462         |
| 02633C   | Benelec UHF Mobile ½ Wave GPI Antenna M Base - 20MHz BW (Feild Tunable)  | 450-530MHz | 2.1dBi | M BASE UHF Plug | 500         |
| 02634C   | Benelec UHF Mobile Broadband Flexible ½ Wave GPI M Base                  | 380-520MHz | 2.1dBi | M BASE UHF Plug | 460         |
| 02634MC  | Benelec UHF Ultra Rugged Broadband GPI Antenna M Base                    | 380-520MHz | 2.1dBi | M BASE UHF Plug | 320         |
| 02666    | Benelec UHF Broadband Marine GPI Antenna 1" 14TPI Thread                 | 380-490MHz | 2.1dBi | N Socket        | 580         |
| 02656    | Benelec UHF Mobile Broadband Glass Mounted GPI Antenna                   | 406-535MHz | 2.1dBi | Bare RG58       | 150         |



**M BASE**  
UHF SOCKET  
SKU: 04110L



**Australian Base**  
**5/16" 26TPI**  
SKU: 02740



02613

02620IBK

02622IBK

02623IBK

02633QC

02633C

02634C

02634MC

02666

02656

## VHF ANTENNAS

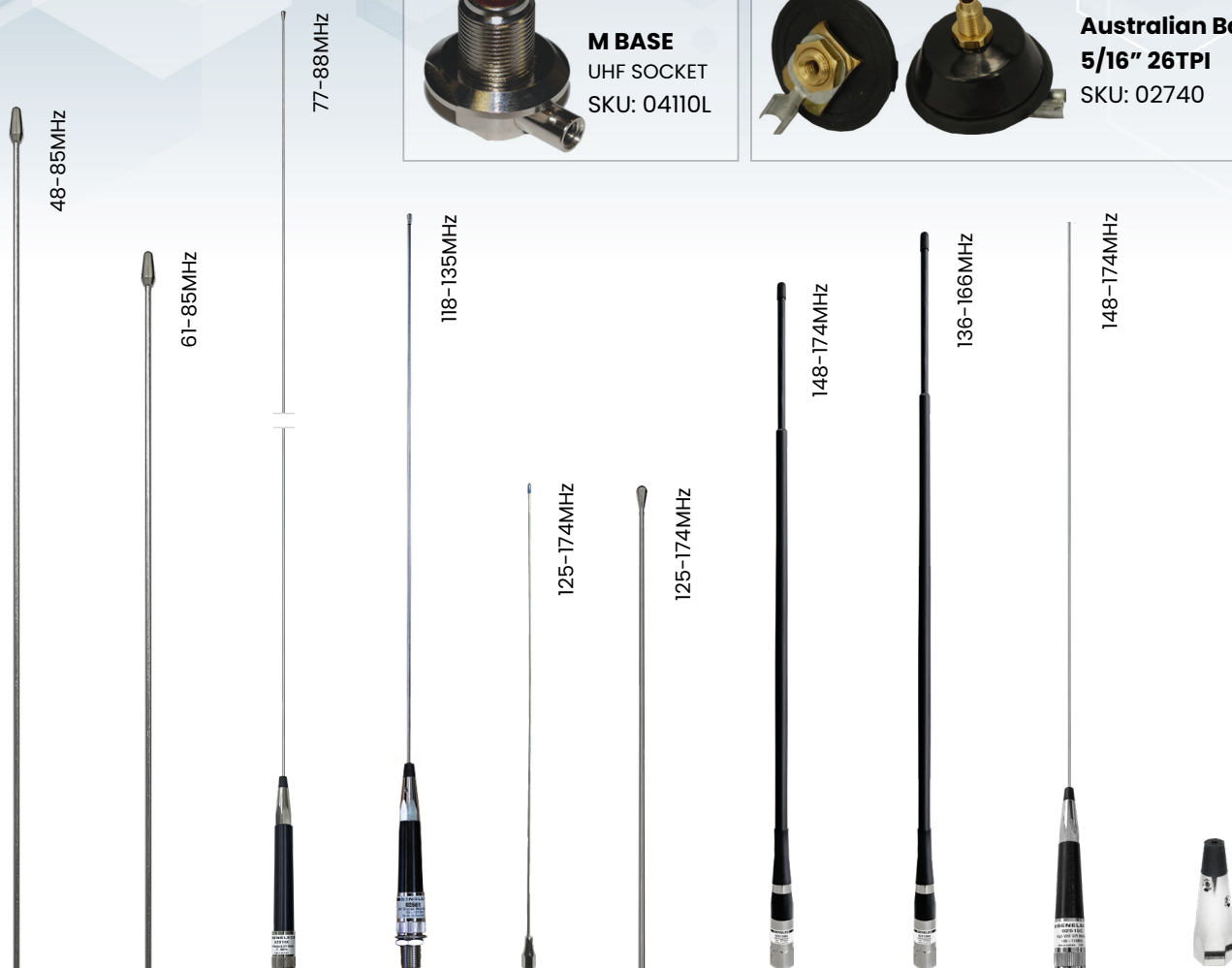
| SKU     | DESCRIPTION                                                                                   | FREQUENCY  | GAIN   | TERMINATION     | LENGTH (MM) |
|---------|-----------------------------------------------------------------------------------------------|------------|--------|-----------------|-------------|
| 02403   | Benelec VHF Mid-band ¼ Wave Tapered Mobile GP Tunable Antenna, 6% Bandwidth (Requires 02410)  | 48-85MHz   | 2.1dBi | Plain-end       | 1500        |
| 02401   | Benelec VHF Mid-band ¼ Wave Tapered Mobile GP Tunable Antenna, 6% Bandwidth (Requires 02410)  | 61-85MHz   | 2.1dBi | Plain-end       | 1200        |
| 02316C  | Benelec VHF Mid-band ½ Wave GPI Mobile Antenna                                                | 77-88MHz   | 1.5dBq | M BASE UHF Plug | 1670        |
| 02551   | Benelec VHF Air-band ½ Wave GPI Mobile Antenna                                                | 118-135MHz | 3dBi   | M BASE UHF Plug | 1357        |
| 02511   | Benelec VHF High-band ¼ Wave Mobile GP Tunable Antenna Au Base, 8% Bandwidth                  | 125-174MHz | 2.1dBi | AU BASE         | 589         |
| 02402   | Benelec VHF High-band ¼ Wave Tapered Mobile GP Tunable Antenna, 8% Bandwidth (Requires 02410) | 125-174MHz | 2.1dBi | Plain-end       | 585         |
| 02515C  | Benelec VHF High-band ½ Wave GPI Mobile Antenna 5MHz BW (Feild Tunable)                       | 148-174MHz | 2.1dBi | M BASE UHF Plug | 1350        |
| 02515M3 | Benelec Ultra Rugged VHF High-band ½ Wave GPI Mobile Antenna                                  | 136-166MHz | 2.1dBi | M BASE UHF Plug | 950         |
| 02515M4 | Benelec Ultra Rugged VHF High-band ½ Wave GPI Mobile Antenna                                  | 148-174MHz | 2.1dBi | M BASE UHF Plug | 890         |
| 02410   | VHF Antenna Ferrile AU Base 5/16" 26TPI                                                       | -          | -      | AU BASE         | -           |



**M BASE**  
UHF SOCKET  
SKU: 04110L



**Australian Base**  
**5/16" 26TPI**  
SKU: 02740



02403

02401

02316C

02551

02511

02402

02515M4

02515M3

02515C

02410

## COVERT ANTENNAS

| SKU            | DESCRIPTION                            | FREQUENCY  | GAIN   | TERMINATION            | DIMENSIONS (MM)      |
|----------------|----------------------------------------|------------|--------|------------------------|----------------------|
| <b>026363</b>  | UHF Covert Internal Lining GPI Antenna | 406-512MHz | 2.1dBi | 6m RG58 Cable Bare-end | 104 W x 276 L        |
| <b>026362T</b> | UHF Covert Transportable GPI Antenna   | 360-400MHz | 2.1dBi | 3m RG58 Cable SMA Plug | 50 H x 150 W x 220 L |
| <b>02636Q6</b> | UHF Covert Vehicle GPI Antenna         | 380-400MHz | 2.1dBi | 6m RG58 Cable Bare-end | 462 H                |
| <b>02636V1</b> | UHF Covert GPI Antenna                 | 460-470MHz | 2.1dBi | SMA Plug               | 289 H                |

A much larger, extensive range of Covert Antennas are available. Please contact our sales team for more information.



**026362T**  
360-400MHz



**02636Q6**  
380-400MHz



**02636V1**  
460-470MHz

## UHF & VHF DUAL BAND ANTENNAS

| SKU    | DESCRIPTION                                                     | FREQUENCY               | GAIN   | TERMINATION       | LENGTH (MM) |
|--------|-----------------------------------------------------------------|-------------------------|--------|-------------------|-------------|
| 025702 | Benelec Flexible Dual Band VHF/UHF Mobile Ground Plane Antenna  | 140-165MHz / 400-500MHz | 2.1dBi | 5/16"26TPI Socket | 460         |
| 025703 | Benelec Flexible Dual Band VHF/UHF Mobile Ground Plane Antenna  | 138-162MHz / 450-510MHz | 2.1dBi | 5/16"26TPI Socket | 460         |
| 025704 | Benelec Flexible Dual Band VHF/UHF Mobile Ground Plane Antenna  | 157-174MHz / 400-480MHz | 2.1dBi | 5/16"26TPI Socket | 430         |
| 025720 | Benelec Dual Band VHF/UHF Base Ground Plane Independent Antenna | 136-144MHz / 485-510MHz | 2.1dBi | N Socket          | 1935        |

## GPS ANTENNAS

| SKU     | DESCRIPTION                                         | FREQUENCY      | GAIN | TERMINATION | DIMENSIONS (MM) |
|---------|-----------------------------------------------------|----------------|------|-------------|-----------------|
| 0294101 | Active GPS Glass Mount Antenna, 5m Cable            | GPS 1575.42MHz | 28dB | SMA Plug    | 38 x 45 x 13    |
| 0294104 | Active GPS Panel Mount Waterproof Antenna, 5m Cable | GPS 1575.42MHz | 28dB | SMA Plug    | 46 x 20 x 13    |
| 0294105 | Active GPS Magnetic Waterproof Antenna, 5m Cable    | GPS 1575.42MHz | 28dB | SMA Plug    | 38 x 45 x 13    |



**Australian Base  
5/16" 26TPI**  
SKU: 02740



140-165MHz / 400-500MHz

025702



138-162MHz / 450-510MHz

025703



157-174MHz / 400-480MHz

025704



136-144MHz / 485-510MHz

025720



GPS 1575.42MHz

0294101



GPS 1575.42MHz

0294104



GPS 1575.42MHz

0294105

## CELLULAR ANTENNAS

| SKU             | DESCRIPTION                                                                             | FREQUENCY                            | GAIN        | TERMINATION | LENGTH (MM) |
|-----------------|-----------------------------------------------------------------------------------------|--------------------------------------|-------------|-------------|-------------|
| <b>024584</b>   | Cellular 5G Base Dipole Antenna                                                         | 617-960MHz, 1710-2700MHz, 3.5-6.0GHz | 1.8-4.7 dBi | SMA Plug    | 203         |
| <b>024563</b>   | Cellular 5G Mobile or Fixed Site Low Profile Antenna                                    | 695-960MHz, 1710-2700MHz, 3.5-3.8MHz | 2/3/5 dBi   | SMA Plug    | 77          |
| <b>024573</b>   | Cellular 5G Mobile Collinear Spring Mounted Antenna                                     | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 3dBi        | SMA Plug    | 420         |
| <b>024575</b>   | Cellular 5G Mobile Collinear Spring Mounted Antenna                                     | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 6dBi        | SMA Plug    | 905         |
| <b>024575R</b>  | Cellular 5G Mobile Collinear Removable Spring Antenna                                   | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 6dBi        | SMA Plug    | 905         |
| <b>024579</b>   | Cellular 5G Mobile Collinear Spring Mounted Antenna                                     | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 7.5dBi      | SMA Plug    | 1220        |
| <b>024579R</b>  | Cellular 5G Mobile Collinear Removable Spring Antenna                                   | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 7.5dBi      | SMA Plug    | 1220        |
| <b>024579RK</b> | Cellular 5G Twin Mobile Collinear Removable Spring Mounted Antenna Kit                  | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 3 & 7.5 dBi | SMA Plug    | 1220 / 420  |
| <b>024581RK</b> | XTREME Cellular Ultra Rugged Twin Mobile Collinear Removable Spring Mounted Antenna Kit | 690-960MHz, 1710-2700MHz, 3.5-3.7GHz | 3 & 6 dBi   | SMA Plug    | 917 / 605   |



024584

617-960MHz, 1710-2700MHz, 3.5-6.0GHz



024563

695-960MHz, 1710-2700MHz, 3.5-3.8MHz



024573

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024575

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024575R

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024579

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024579R

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024579RK

690-960MHz, 1710-2700MHz, 3.5-3.7GHz



024581RK

690-960MHz, 1710-2700MHz, 3.5-3.7GHz

## COMPOSITE BAND ANTENNAS

| SKU              | DESCRIPTION                                                                             | FREQUENCY                                           | GAIN      | TERMINATION | LENGTH (MM) |
|------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|-------------|-------------|
| <b>029327</b>    | Wi-Fi & Active GPS Glass Mount Antenna                                                  | 2.4-2.5GHz                                          | 2.1 dBi   | QMA Plug    | 198         |
| <b>02942051P</b> | 6 Band Shark Fin Antenna<br>2 x 5G, 2 x Wi-Fi, 2 x GPS/GNSS                             | 617-960MHz, 1710-3800MHz<br>2.4-2.5GHz, 5.0-6.0GHz  | 4 - 6dBi  | SMA Plug    | 173         |
| <b>02942052M</b> | 8 Band Low Profile Surface Antenna<br>2 x 5G, 4 x Wi-Fi, 2 x GPS/GNSS                   | 617-960MHz, 1710-3800MHz<br>2.4-2.5GHz, 4.9-6.0GHz  | 3 - 5dBi  | SMA Plug    | 300         |
| <b>024561M2</b>  | Panel Mounted Low Profile 2x2 MiMo 5G Antenna                                           | 695-960MHz, 1710-2700MHz,<br>3.5-3.8MHz             | 2 - 3 dBi | SMA Plug    | 38 x 89 ø   |
| <b>0294212</b>   | 10 Band Low Profile Antenna<br>4 x 5G, 4 x Wi-Fi, 2 x GNSS Filtered                     | 617-960MHz, 1710-7200MHz<br>2.4-2.5GHz, 4.7-7.2GHz  | 4 - 6dBi  | SMA Plug    | 265         |
| <b>0294211</b>   | 10+1 Band Low Profile Antenna<br>4 x 5G, 4 x Wi-Fi, 2 x GNSS, 1 x Auxiliary Antenna     | 617-960MHz, 1710-7200MHz<br>2.4-2.5 GHz, 4.7-7.2GHz | 4 - 6dBi  | SMA Plug    | 265         |
| <b>029352N</b>   | Auxiliary - C Band N Plug Spring base (For 0294211)<br>Mesh antenna                     | 4.9-5.0GHz                                          | 8.85dBi   | N Plug      | 440         |
| <b>02634N</b>    | Auxiliary - UHF Mobile ½ wave 20mm radome<br>and spring - Fiberglass top. (For 0294211) | 380-520MHz                                          | 2.1dBi    | N Plug      | 345         |



GPS & Wi-Fi 2.4-2.5GHz

**029327**



617 - 960MHz, 1710 - 3800MHz  
2.4 - 2.5GHz, 5.0 - 6.0GHz

**02942051P**



617 - 960MHz, 1710 - 3800MHz  
2.4 - 2.5GHz, 4.9 - 6.0GHz

**02942052M**



695-960MHz, 1710-2700MHz,  
3.5-3.8MHz

**024561M2**



617 - 960MHz, 1710 - 7200MHz  
2.4 - 2.5 GHz, 4.7 - 7.2GHz

**0294212**



*(Auxiliary Antenna Sold Separately)*

617 - 960MHz, 1710 - 7200MHz  
2.4 - 2.5 GHz, 4.7 - 7.2GHz

**0294211**



4.9-5.0GHz

**029352N**



380-520MHz

**02634N**

## EXTREME ENVIRONMENTS

### MINING ANTENNAS

| SKU            | DESCRIPTION                                                  | FREQUENCY                 | GAIN    | TERMINATION | LENGTH (MM) |
|----------------|--------------------------------------------------------------|---------------------------|---------|-------------|-------------|
| <b>02515M4</b> | Ultra Rugged VHF High Band ½ Wave GPI Mobile Antenna, M Base | 148-174MHz                | 2.15dBi | UHF Plug    | 890         |
| <b>02634MC</b> | UHF Ultra Rugged Mobile GPI Antenna, M Base                  | 380-520MHz                | 2.15dBi | UHF Plug    | 320         |
| <b>029313H</b> | Mining High Vibration S & C Dual Band Antenna                | 2.1-2.5GHz,<br>4.0-6.0GHz | 3.0dBi  | N Socket    | 231         |
| <b>02461H</b>  | High Vibration 5G Cellular Antenna                           | 0.6-7.2GHz                | 2-3dBi  | N Socket    | 396         |

### RAIL ANTENNAS

| SKU             | DESCRIPTION                              | FREQUENCY                   | GAIN     | TERMINATION | LENGTH (MM)    |
|-----------------|------------------------------------------|-----------------------------|----------|-------------|----------------|
| <b>02628R</b>   | UHF Low Profile Rail Antenna             | 400-470MHz                  | 2.15dBi  | N Socket    | 296 x 161 x 68 |
| <b>02471R</b>   | 5G Low Profile Glass Mount Antenna       | 690-960MHz,<br>1710-2700MHz | 5-6dBi   | N Socket    | 76 x 176 x 79  |
| <b>0294206R</b> | 4G & GPS Low Profile Glass Mount Antenna | 690-960MHz,<br>1710-2700MHz | 5-6.5dBi | N Socket    | 76 x 176 x 79  |



**02515M4**



**02634MC**



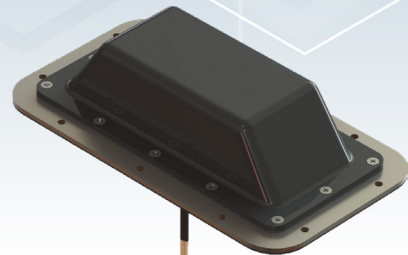
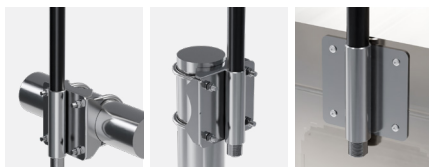
**029313H**



**02461H**

#### Mounting Options

|                         |              |
|-------------------------|--------------|
| Vertical Round Member   | 25 - 63mm    |
| Horizontal Round Member | 25 - 63mm    |
| Vertical Panel          | 4 hole plate |



**02628R**



**02471R**



**0294206R**

## ACCESSORIES

### VEHICLE BRACKETS

|                              |                                               |               |               |
|------------------------------|-----------------------------------------------|---------------|---------------|
| <b>02714S</b>                | Fold-down Mobile Antenna Gutter Bracket       |               |               |
| <b>02726S</b>                | Heavy Duty Mobile Gutter Bracket (6mm hole)   |               |               |
| <b>02728</b>                 | Mirror/Roof Antenna Bracket                   |               |               |
| <b>02730</b>                 | Bracket BullBar Right Angle                   |               |               |
| <b>027303</b>                | Adjustable Lip Mount Mobile Antenna Bracket   |               |               |
| Wrap Around Antenna Brackets |                                               |               |               |
| <b>027313</b>                | <b>027314</b>                                 | <b>027315</b> | <b>027316</b> |
| 45mm                         | 50mm                                          | 63mm          | 76mm          |
| <b>02732</b>                 | Heavy Duty Bull Bar Antenna Bracket           |               |               |
| <b>027323</b>                | Heavy Duty Folding Bull Bar Bracket           |               |               |
| <b>02734</b>                 | Z Trunk Groove Antenna Bracket                |               |               |
| <b>027423</b>                | Magnetic Suction Antenna Base                 |               |               |
| <b>02745</b>                 | N Socket Roof Mounting Base 8GHz LMR240       |               |               |
| <b>027425</b>                | Magnetic Base N Socket to TNC Socket 8GHz     |               |               |
| <b>02740</b>                 | AU Base 5/16" 26TPI Panel Mount to RG58 Cable |               |               |
| <b>02742</b>                 | AU Base 5/16" 26TPI to UHF Socket             |               |               |
| <b>04110L</b>                | M Base UHF Socket Panel Mount to RG58 Cable   |               |               |
| <b>02795</b>                 | AU Base 5/16" 26TPI to UHF Plug Adaptor       |               |               |



02714S



02726S



02728



02730



027303



027313 / 027314  
027315 / 027316



02732



027323



02734



027423



02745



027425



02740



02742



04110L



02795



02735



02737



025222



027281



02729

### BASE & MARINE BRACKETS

|               |                                                             |
|---------------|-------------------------------------------------------------|
| <b>02735</b>  | Marine 2 Way Knuckle Antenna Base 1" Thread                 |
| <b>02737</b>  | Marine 2 Way Knuckle Antenna Base 1" Thread Stainless Steel |
| <b>025222</b> | Marine Flat Mounting Bracket with Cable Slot                |
| <b>027281</b> | Base Antenna Wall Bracket (16mm x 223mm)                    |
| <b>02729</b>  | Base Antenna Wall Bracket (16mm x 58mm)                     |

### CABLE ASSEMBLIES

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| <b>10108A</b>   | 3.6m RG58C/U Antenna UHF Base Lead with UHF Plug                   |
| <b>10109</b>    | 5m RG58C/U Antenna M Base Lead with FME Socket                     |
| <b>10109S</b>   | 5m RG58C/U Antenna M Base Lead with SMA Plug                       |
| <b>96FR001</b>  | 5m 6 Way RG58 Low-loss Cable Kit SMA Socket to SMA Plug/QMA Plug   |
| <b>96FR009</b>  | 3m 6 Way RG58 Low-loss Cable Kit SMA Socket to SMA Plug/QMA Plug   |
| <b>96FR0010</b> | 1.5m 6 Way RG58 Low-loss Cable Kit SMA Socket to SMA Plug/QMA Plug |



10108A



10109



10109S



96FR001



96FR009



96FR0010

10 Way and 11 Way Kits available on request

## CABLES & CONNECTORS

### COAXIAL CABLES

| SKU      | DESCRIPTION | IMAGE | CONSTRUCTION                                           | DIAMETER (mm) | IMPEDANCE | SPOOL LENGTH |
|----------|-------------|-------|--------------------------------------------------------|---------------|-----------|--------------|
| 05602ABK | RG58C/U     |       | Single Braid Shield, Solid PE Dielectric, Multistrand  | 4.95          | 50 Ω      | 100m         |
| 05603    | RG58LL      |       | Double Shield, Foam PE Dielectric, Multistrand         | 4.95          | 50 Ω      | 100m         |
| 056081   | RG223 TPC   |       | Double Shielded Ag Plated Outer, Ag Solid Centre (TPC) | 4.95          | 50 Ω      | 100m         |
| 056082   | RG223 SPC   |       | Double Shielded Ag Plated Outer, Ag Solid Centre (SPC) | 4.95          | 50 Ω      | 100m         |
| 056031   | LL195       |       | Double Shield, Foam PE Dielectric, Solid Centre        | 4.95          | 50 Ω      | 100m         |
| 056032   | LL240       |       | Double Shield, Foam PE Dielectric, Solid Centre        | 6.1           | 50 Ω      | 100m         |
| 05605    | RG213       |       | Single Braided Shield Coaxial                          | 10.3          | 50 Ω      | 100m         |
| 056041   | LL400       |       | Double Shield Low Loss Coaxial                         | 10.3          | 50 Ω      | 100m         |

### CABLE ASSEMBLIES

|         |                                          |
|---------|------------------------------------------|
| 04206   | Np Crimp RG58/LL195/RG223                |
| 04209   | Np LL400 Sprin Finger Crimp              |
| 04208   | Np Crimp RG213/214                       |
| 04221   | Ns Crimp RG58 /LL195/RG223               |
| 04225   | Ns Crimp Spring Finger LL400             |
| 04104   | UHFp Screw/Solder                        |
| 04106   | UHFp Crimp RG58                          |
| 041014  | UHFp Clamp solder RG213                  |
| 040013  | SMAp Crimp RG58                          |
| 040013R | SMAp RP Crimp RG58                       |
| 040033  | SMAs Crimp RG58                          |
| 04Q013  | QMAp Crimp RG58                          |
| 04Q033  | QMAs Crimp RG58                          |
| 04311   | BNCp Crimp RG58                          |
| 04166   | TNCp Crimp RG58                          |
| 040113  | Mini-UHF crimp plug to RG58              |
| 04281   | UHF to UHFp                              |
| 04282   | N plug to UHF                            |
| 04372   | UHFp to BNCs                             |
| 101101  | QMA Plug to Mini-UHF Socket Adaptor Lead |



A much larger, extensive range of Cables & Connectors are available. Please contact our sales team for more information.

## NOTES



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