Antennas and RF cables

Most of our antennas are covering all four GSM bands (Quad Band) and a lot of are covering the UMTS band as well (Penta Band). We also provide a huge range of multiband antennas for wireless communication (GSM, UMTS, BT, WLAN, ISM) and GPS.

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GSM / UMTS frequency ranges

GSM frequency range RX
GSM 850 (also called GSM 800)
869 to 894 MHz

GSM 900, E-GSM 900
935 to 960 MHz
925 to 935 MHz

GSM 1800
1805 to 1880 MHz

GSM 1900
1930 to 1990 MHz

UMTS (also called WCDMA)
1920÷1990 MHz

Bluetooth
2.4 GHz

GSM frequency range TX
GSM 850 (also called GSM 800)
824 to 849 MHz

GSM 900, E-GSM 900
890 to 915 MHz
880 to 890 MHz

GSM 1800
1710 to 1785 MHz

GSM 1900
1850 to 1910 MHz

UMTS (also called WCDMA)
2110÷2170 MHz

Wireless Local Area Network (WLAN)
2.4 GHz

Please feel free to come back with inquiries on antennas that are not listed, customized antennas, antenna cables or any other questions on this topic.

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Inside Glass Antenna Multi Band GSM 850/900/1800/1900/UMTS ANT-GXW110-FME/F

Inside glass antenna multi band including 2500 mm RG 174 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 – 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
Impedance: 50 Ohm
Max power: 20 W
Return loss: >12 dB
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Diameter/Height in mm: 55 / 5

ANT-GXW110-SMA/M RG 174 2500 mm, connector SMA male.

Other antenna connectors upon request.

Inside Glass Antenna Multi Band 850/900/1800/1900/UMTS ANT-GXW109-FME/F

Inside glass antenna multi band including 2500 mm RG 174 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
Impedance: 50 Ohm
Max power: 20 W
Return loss: >12 dB
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Dimensions in mm: 95 x 24 x 6

ANT-GXW109-SMA/M RG 174 2500 mm, connector SMA male.

Other antenna connectors upon request.

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Inside Glass Antenna Multi band 850/900/1800/1900/UMTS + GPS

ANT-GNW101-FME/F-SMA/M

Inside glass antenna multi band including two cables 2500 mm RG 174 for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
Impedance: 50 Ohm
Max power: 20 W
Return loss: >12 dB
Gain: 2,15 dBi
Cable length: RG 174 2500 mm +/- 150mm with FME female
Dimensions in mm: 120 x 25

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 11±5 mA max
Power gain: 27 ± 5 dBi min
Noise figure: 1,8÷2,2 dB max.
Supply voltage: 3 ÷ 5 volts
Temperature: -30°C ÷ +85°C
Cable length: RG 174 2500 mm +/- 150mm with SMA male.

Compatible to AarLogic GPS 3M

Other antenna connectors upon request.

Inside Glass Antenna Dual Band 900/1800

ANT-GXW209-FME/F

Inside glass antenna dual band including 3000 mm RG 174 cable for use in wireless communication.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800:1710 - 1880 MHz
Bandwidth: A: 70 MHz B: 170 MHz
Impedance: 50 Ohm
Max power: 25 W
Gain: 2 dBi
VSWR: A: < = 1,7; B: < = 2,1
Cable length: RG 174 3000 mm with FME female
Dimensions in mm: 115 x 22 x 4

ANT-GXW209-SMA/M 3000mm +/-50mm, connector SMA Male

Other antenna connectors upon request.

Inside Glass Antenna Multi band ISM 433 GSM quad band /UMTS/Bluetooth/WLAN ANT-GXW619-FME/F

Inside glass antenna multi band including 2500 mm RG 174 cable for use in wireless communication.

Technical data

Frequency range:
ISM 433MHz
GSM 850 / AMPS: 824-894 MHz
GSM 1800:1710 - 1880 MHz
PCN 1,9 GHz,
UTMS 2,1 GHz,
Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 20 W
Return loss: >12 dB
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Dimensions in mm: 128 x 23 x 3

This antenna covers the ISM bands 434, 868, 915, GSM 850 (also called GSM 800), GSM 900, GSM 1800 and GSM 1900 but UMTS up the Bluetooth and WLAN as well.

Other antenna connectors upon request.

Waterproofed Antenna Multi band ISM 433 GSM quad band /UMTS/Bluetooth/WLAN ANT-GXS404-FME/F

Inside glass antenna multi band including 2500 mm RG 174 cable for use in wireless communication.

Technical data

Frequency range:
ISM 433MHz
GSM 850 / AMPS: 824-894 MHz
GSM 1800:1710 - 1880 MHz
PCN 1,9 GHz,
UTMS 2,1 GHz,
Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 20 W
Return loss: >12 dB
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Dimensions in mm: 120 x 20 x 2

This antenna covers the ISM bands 434, 868, 915, GSM 850 (also called GSM 800), GSM 900, GSM 1800 and GSM 1900 but UMTS up the Bluetooth and WLAN as well. Based on the shrink tube it is waterproofed and can be used outdoor.

ANT-GXS404-MMCX/M
ANT-GSX404-SMA/M

Other antenna connectors upon request.

Inside Glass Antenna Multi band 900/1800/1900/UMTS/WLAN/ Bluetooth + GPS ANT-GNW601-FME/F-SMA/M

Inside glass antenna multi band for wireless communication with 2500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 900: 880 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1900 - 2170 MHz
Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: <1,15
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Dimensions in mm: 97 x 28

Technical data GPS

Center frequency: 1575,42MHz
Band width: ± 1 MHz
Impedance: 50 Ohm
Current consumption: 20 mA max
Power gain: 27 dBi
Noise figure: 1,2 dBi
Supply voltage: 2,7 - 5,5 volts
Temperature -40° C to +90° C
Cable length: 2500 mm with SMA male
GPS System gain: < 24dBi
(2.5m RG174, 2.85V, 2 connectors)
Compatible to AarLogic GPS 3M

Other antenna connectors upon request.

Inside Glass Antenna Multi band 900/1800/1900/UMTS/ ANT-GXW170-FME/F

Inside glass antenna multi band for wireless communication with 1500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 900: 880 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 1920- 2110 - 2170 MHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: <1,15
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Dimensions in mm: 117 x 12

ANT-GXR170-SMA/M (2500 mm cable and connector SMA/M)

Other antenna connectors upon request.

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Active GPS Antenna ANT-NXM652-SMA/M

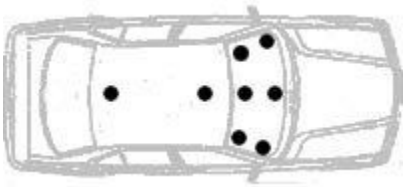
Active GPS antenna including 2500 mm RG 174 cable.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 20 mA max.
Power gain: 26dB at 3V, 28dB at 5V
Noise figure: 1,8÷2,2 dB max.
Supply voltage: 2.7 ÷ 5 Volt
Temperature: -40°C ÷ +85°C
Cable length: RG174 2.5 m with SMA/M
GPS System gain: < 24dBi
(2.5m RG174, 2.85V, 2 connectors
Dimensions in mm: 38 x 34 x 13,7

Compatible to AarLogic GPS 3M

This antenna has the benefit, that it can be mounted on dashboard, behind the windscreen or outside on the roof with its magnet.



Other antenna connectors upon request.

Active GPS Antenna ANT-NXM302-SMA/M

Active GPS antenna including 5000 mm RG 174 cable and magnetic mount.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 15 mA max
Power gain: 28 dB
Noise figure: 1,8÷2,2 dB max.
Supply voltage: 3 ÷ 3,6 Volt
Temperature: -40° to +85° C with high humidity
Cable length: RG 174 4500 mm with SMA male
Dimensions in mm: 50 x 44 x 13,8

Operates on 3,0 to 3,6 Volts only. For use with Lassen SQ, Lassen LP and M-Loc GPS modules. *Not recommend for use with GM862-GPS or GM863-GPS, because the supply voltage of both modules is higher then 3,3 Volt.*

Trimble manufactures a variety of antenna styles and types to suit the most varied applications. All include a low-noise amplifier (LNA) to provide sensitive performance in the toughest environments (–40° to +85° C with high humidity). All feature the famous Trimble quality and reliability gained from nearly two decades of building GPS antennas for commercial and military requirements.

ANT-NXM302-MCX/M RG174 5000 mm with MCX male

Active GPS Antenna ANT-NXG3113-UFL

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Patch size: 13x13mm
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 13 mA typical
Power gain: 15 dB
Noise figure: 1.3dB max.
Supply voltage: 2.5 – 3.5 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 80 mm with HFL right-angle
Dimensions in mm: 13x13x7.1

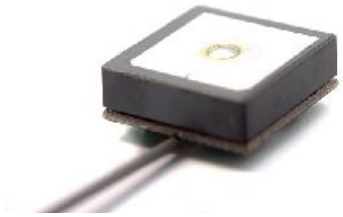
Compatible to AarLogic GPS 3M

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG3118-UFL

Active GPS antenna including 80 mm cable for indoor/inside car use.



Technical data GPS

Center frequency: 1575,42 MHz
Patch size: 18x18mm
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 13mA typical
Power gain: 16dB
Noise figure: 1.3dB max.
Supply voltage: 2.5 – 3.5 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 80 mm with UFL right-angle
Dimensions in mm: 18.5x18.5x7.1

Compatible to AarLogic GPS 3M

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG3110-UFL

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Patch size: 10x10mm
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 11 mA typical
Power gain: 15 dB
Noise figure: 1.3dB max.
Supply voltage: 2.5 – 3.5 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 50 mm with HFL right-angle
Dimensions in mm: 10x10x6.2

Compatible to AarLogic GPS 3M

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG3125-UFL

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Patch size: 25x25mm
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 13mA typical
Power gain: 17dB
Noise figure: 1.3dB max.
Supply voltage: 2.5 – 3.5 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 80 mm with UFL right-angle
Dimensions in mm: 25.3x25.3x7.5

Compatible to AarLogic GPS 3M

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG303-HFL

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption: 13 mA max
Power gain: 27 dB
Supply voltage: 3 - 3,6 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 80 mm with HFL right-angle
Weight: 20 g (typical)
Dimensions in mm: 22 x 21 x 8

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Not recommend for use with AarLogic GPS 3M, GM862-GPS or GM863-GPS, due gain level and supply voltage

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG352-UFL

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max.
Impedance: 50 Ohm
Current consumption:
At 3.0 V typ. 13 mA max.16 mA
At 5.0 V typ.18 mA max. 22 mA
Power gain: 28 ± 4,5dB
Noise figure: 1,5dB max.
Supply voltage: 2,5 – 5,5 Volt
Temperature: -40° to +85° C with high humidity
Cable length: 80 mm with UFL right-angle
Dimensions in mm: 25 x 25 x 8

Not recommended for AarLogic GPS 3M due gain level

Features

- Customised ground planes size and shape available
- High performance 30dB + gain – suitable for indoor and outdoor environments
- Low power consumption
- High gain, Low noise < 1.5dB
- Excellent temperature stability and out-band rejection
- Wide band input voltage
- Compatible with every GPS receiver
- Variety of applications in GPS car navigation systems, aviation, and handheld devices

Other antenna connectors and cable length upon request.

Active GPS Antenna ANT-NXG971-UFL / ANT-NXG971-MMCX

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 3 MHz
VSWR: 1,5 :1
Impedance: 50 Ohm
Current consumption: 6 mA max
Power gain: 25 dB
Noise figure: 1,5dB
Supply voltage: 3 – 5,0 Volt
Temperature: -40° to +85 C
Cable length: 80 mm with UFL / MMCX right-angle
Weight: <60 g (typical)
Dimensions in mm: 22 x 21 x 7,8

Not recommended for AarLogic GPS 3M due gain level

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG972-UFL / ANT-NXG972-MMCX

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 3 MHz
VSWR: 1,5 :1
Impedance: 50 Ohm
Current consumption: 11 mA max
Power gain: 28 dB
Noise figure: 1,5dB
Supply voltage: 3 – 5,0 Volt
Temperature: -40° to +85 C
Cable length: 80 mm with UFL / MMCX right-angle
Weight: < 50g
Dimensions in mm: 13 x 13 x 7,5

Not recommended for AarLogic GPS 3M due gain level

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXG354-UFL / ANT-NXG354-MMCX

Active GPS antenna including 80 mm cable for indoor/inside car use.

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 :1 max.
Impedance: 50 Ohm
Current consumption: 13 mA max.
Power gain: 25 dB
Noise figure: 1,4dB Typ.
Supply voltage: 2,5 – 5,5 Volt
Cable length: 80 mm with UFL / MMCX right-angle
Weight: < 50g
Dimensions in mm: 13,4 x 13,4 x 5,5

Not recommended for AarLogic GPS 3M due gain level

This is an ultra-compact, active, GPS antenna used for demanding next-generation mobile product applications. It has no external packaging to provide greater flexibility in embedding in your application.

Other antenna connectors upon request.

Active GPS Antenna ANT-NXE973

Helical GPS antenna for mobile applications.

Technical data GPS

Center frequency: 1575,42MHz
Band width: 90 MHz
Impedance: 50 Ohm
Current consumption: 10 mA max
Power gain: 28 dBi
Return loss: -10 dB (max.)
Supply voltage: 2.7 – 5.0 Volt

Not recommended for AarLogic GPS 3M due gain level

Application examples

- People tracking
- Car tracking
- Telematic applications
- POS Terminals

Magnetic Antenna Multi Band 850/900/1800/1900/UMTS ANT-GXM102-FME/F - SMA/M

Magnetic roof antenna including 2500 mm RG 174 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz

VSWR 824 - 960:< 1,6
VSWR 1710 - 1990:< 1,5
VSWR 1900 - 2100:< 2,0
Impedance: 50 Ohm
Max power: 20 W
Rod length: 88 mm
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Polarization: Vertical

ANT-GXM102-SMA/M RG 174 2500 mm, connector SMA male
Other antenna connectors upon request.

Magnetic Antenna Multi Band 850/900/1800/1900/UMTS ANT-GXM602-FME/F -SMA/M

Magnetic roof antenna including 2500 mm RG 174 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz

VSWR :< 2
Max power: 20 W
Rod length: 88 mm
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME female
Polarization: Vertical
Rod length: 88 mm

ANT-GXM602-SMA/M RG 174 2500 mm, connector SMA male
Other antenna connectors upon request.

Magnetic Antenna Multi Band 900/1800/1900/UMTS ANT-GXM632-FME/F - SMA/M

Magnetic roof antenna including 2500 mm RG 174 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
900: 860 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900: 1920 - 1990 MHz
UMTS: 1920 - 2170 MHz
VSWR 824 - 960:< 2,0
Impedance: 50 Ohm
Max power: 20 W
Rod length: 290 mm
Gain: 5,0 dBi
Cable length: RG 174 2500 mm with FME female
Polarization: Vertical
Cable: RG 174 2500 mm
Connector FME/F or SMA/M

Other antenna connectors upon request.

Antenna Multi Band 850/900/1800/1900/ GPS ANT-GNW630-FME/F-SMA/M

Low profile antenna for wireless communication with 2500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900: 1920 - 1990 MHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: <2
Gain: 2,15 dBi
Cable length: RG 174 2500 mm FME/F
Dimensions in mm: Dia 77 x 12

Technical data GPS

Center frequency: 1575,42MHz
Band width: ± 1 MHz
Impedance: 50 Ohm
Current consumption: 20 mA max
Gain: 26 dBi at 3 V / 28 dBi at 5 V
Noise figure: 1,2 dBi
Supply voltage: 2,7 - 5,5 volts
Temperature -40° C to +90° C
Cable length: 2500 mm with SMA male

This very low profile antenna comes with high gain and low VSWR..

Application examples

- On dashboard of trucks or cars
- Behind windows of trucks or cars

Other antenna connectors upon request.

Antenna Multi Band 850/900/1800/1900/Bluetooth / UMTS /GPS ANT-GNW640-FME/F-SMA/M

Low profile magnetic antenna for wireless communication with 2500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
Bluetooth 2,4 GHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: <2,0
Gain: 2,15 dBi
Cable length: RG 174 2500 mm FME/F
Dimensions in mm: Dia 52.5 x 13

Technical data GPS

Center frequency: 1575,42MHz
Band width: ± 1 MHz
Impedance: 50 Ohm
Current consumption: 20 mA max
Gain: 26 dBi at 3 V / 28 dBi at 5 V
GPS System gain: < 24dBi
(2.5m RG174, 2.85V, 2 connectors)
Noise figure: 1,2 dBi
Supply voltage: 2,7 - 5,5 volts
Temperature -40° C to +90° C

This very low profile antenna is ground plane independent and can be mounted on metal (magnetic) or plastic. The flat design protects against vandalism.

Application examples

- On dashboard of trucks or cars
- Behind windows of trucks or cars

Other antenna connectors upon request.

Magnetic Antenna Multi Band 850/900/1800/1900/Bluetooth/ WLAN/ GPS ANT-GNM600-FME/F-SMA/M

Low profile magnetic antenna for wireless communication with 2500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: <2,0
Gain: 2,15 dBi
Cable length: RG 174 2500 mm FME/F
Dimensions in mm: 74 x 80 x 13

Technical data GPS

Center frequency: 1575,42MHz
Band width: ± 1 MHz
Impedance: 50 Ohm
Current consumption: 20 mA max
Power gain: 27 dBi
Noise figure: 1,2 dBi
GPS System gain: < 24dBi
(2.5m RG174, 2.85V, 2 connectors)
Supply voltage: 2,7 - 5,5 volts
Temperature -40° C to +90° C

This very low profile antenna comes with high gain and low VSWR. The flat design protects against vandalism.

Application examples

- On roof of trucks or cars
- On roof of busses

Other antenna connectors upon request.

Roof Antenna Multi Band 850/900/1800/1900/Bluetooth/ GPS ANT-GNR600-FME/F-SMA/M

Low profile roof antenna dual band for wireless communication with 2500 mm cable RG 174.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1920 - 2170 MHz
WIFI 2,4 GHZ, Bluetooth
Impedance: 50 Ohm
Max power: 20 W
VSWR: <2,0
Gain: 2,15 dBi
Cable length: RG 174 2500 mm FME/F
Dimensions in mm: 74 x 80 x 13

Technical data GPS

Center frequency: 1575,42MHz
Band width: ± 1 MHz
Impedance: 50 Ohm
Current consumption: 20 mA max
Power gain: 27 dBi
Noise figure: 1,2 dBi
GPS System gain: < 24dBi
(2.5m RG174, 2.85V, 2 connectors)
Supply voltage: 2,7 - 5,5 volts
Temperature -40° C to +90° C

This very low profile antenna comes with high gain and low VSWR. It will give you superior performance at a low price. The flat design protects against vandalism.

Application examples

- On roof of trucks or cars
- On roof of busses

Other antenna connectors upon request.

Roof Antenna Tri Band 900/1800/1900 ANT-GXR103-FME/F –SMA/M

Roof antenna multi band including 5000 mm RG 58 cable for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 900: 880 - 960 MHz
GSM 1800:1710 - 1880 MHz
UMTS: 1900 - 2170 MHz
Impedance: 50 Ohm
Max power: 30 W
Rod section: 1
Rod length: 35 mm
Gain: 2,15 dBi
Return loss: < 1,5
Wave: 1/4 + 1/4 lambda
Cable length: RG 58 5000 mm with FME female
Polarization: Vertical
Rod length: 60 mm

Other antenna connectors upon request.

Roof Antenna Multi Band 900/1800/1900/UMTS/GPS ANT-GNR100-FME/F-SMA/M

Multi band roof antenna with built-in passive diplexer including two 5000 mm extension cables for use in wireless communication.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1900 - 2170 MHz
Impedance: 50 Ohm
Max power: 20 W
Max power: > 12 dB
Decoupling: > 40 dB
Rod section: 1
Rod length: 50mm
Rod gain: 2,15 dBi
Rod wave: 1/4 Lambda
Rod inclination: 74°
Extension cable length: 5000 mm with FME female
Dimensions in mm: 82 x 43 x 90

Technical data GPS

Center frequency: 1575,42 MHz
Band width: ± 1,023 MHz
VSWR: 2,0 max
Impedance: 50 Ohm
Current consumption: 11 ± 5 mA max
Power gain: 27 ± 5 dBi min
Noise figure: 1,8 – 2,2 dB max.
Supply voltage: 3 ÷ 5 volts
Temperature-30° C to +85° C
Cable length: 5000 mm with SMA male

Other antenna connectors on request.

Roof Antenna Quad Band 850/ 900/1800/1900/UMTS/ Bluetooth/WLAN ANT-GXR623-FME/F

Low profile roof antenna multi band for wireless communication with 2500 mm RG 174 cable.

Technical data GSM / UMTS

Frequency range:
GSM 850 / 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
GSM 1900 / UMTS: 1900 - 2170 MHz
WIFI 2,4 GHZ, Bluetooth
Impedance: 50 Ohm
Max power: 20 W
VSWR: <1,15
Gain: 2,15 dBi
Cable length: RG 174 2500 mm with FME/F
Dimensions in mm: 74 x 80 x 13

This very low profile antenna comes with high gain and low VSWR. It will give you superior performance at a low price. The flat design protects against vandalism.

Application examples

- On roof of trucks or cars
- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public pay phones
- POS terminals

Other antenna connectors and cable length upon request.

Directive Outdoor Antenna Dual Band 900/1800 ANT-GXD105-FME/F

Directive mobile antenna including 5000 mm RG 58 cable for use in fixed stations.

Technical data GSM

Frequency range:
GSM 900: 824 - 960 MHz
GSM 1800: 1710 - 1880 MHz
VSWR: <1,5
Gain: 11 dBi
Emission: Directive
Cable length: RG 58 5000 mm ± 10 mm with FME Female
Dimensions in mm: 228 x 170 x 70

Other antenna connectors upon request.

Yagi Antenna Quad Band 850/900/1800/1900 ANT-GXD905-SMA/M

Directive mobile antenna including 2500 mm RG 58 cable for use in fixed stations.

Technical data GSM

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain: 10 dBi
Connector: SMA male

Other antenna connectors upon request.

Omni-directional Outdoor Antenna 900/1800
ANT-GXS106-FME/F (black)
ANT-GXS107-FME/F (white rod)

Omni-directional antenna including 5000 mm RG 58 cable for use in fixed stations in boats, caravans and homes.

Technical data GSM

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
VSWR 824 - 960: < 2,0
VSWR 1710 - 1990: < 1,5
Impedance: 50 Ohm
Max power: 20 W
Gain: 2,14 dBi
Wave: 1/4 lambda
Cable length: RG 58 mm 5000
with FME/Female
Polarization: Vertical
Rod length: 250 mm

Other antenna connectors upon request.

Omni-directional Outdoor Antenna 850/900/1800/1900/UMTS/ Bluetooth/WLAN
ANT-GXS108-FME/F

Omni-directional antenna including 5000 mm RG 58 cable for use in fixed stations in boats, caravans and homes.

Technical data GSM / UMTS

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS: 1900 - 2170 MHz
VSWR 824 - 960: < 2,0
VSWR 1710 - 1990: < 1,5
VSWR 1900 - 2170: < 2,0
Impedance: 50 Ohm
Max power: 10 W
Gain: 2,14 dBi
Cable length: RG 58 5000 mm
with FME female
Polarization: Vertical
Rod length: 240 mm

Other antenna connectors upon request.

Omni-directional Outdoor Antenna 850/900/1800/1900/UMTS/ Bluetooth/WLAN ANT-GXS606-FME/F

Omni-directional antenna for outdoor (water protected) including cable for use in fixed stations in boats, caravans and homes.

Technical data GSM / UMTS

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS: 1900 - 2170 MHz
WIFI and Bluetooth
UMTS/ Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 100 W
VSWR: 2,0 max.
Gain: 2,15 dBi
Polarization: Vertical
Cable: 5000 mm RG58 and connector FME/F
Rod length: 298 mm

Other antenna connectors upon request.

Waterproofed Antenna Multi Band 433/850/900/1800/ 1900/UMTS/WLAN ANT-GXS404-FME/F

Antenna multi band including 2000 mm RG 174 cable for use in wireless communication.

Technical data GSM

Frequency range:
ISM band: 433 MHz
GSM 900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS: 1900 - 2170 MHz Bluetooth / WLAN 2,4 GHz
Impedance: 50 Ohm
Max power: 10 W
VSWR: 2
Peak gain: 2,0 dBi
Cable length: RG174 2000 mm with FME female right angle
Dimensions in mm: 110 x 21 x 3

Special PCB antenna with covered waterproofed plastic enclosure.

Application examples

- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Vehicle tracking

Other antenna connectors upon request.

PCB Antenna
Dual Band 900/1800
ANT-GXP113-MMCX/M

PCB antenna dual band including 170 mm RG 316 cable for use in wireless communication.

Technical data GSM

Frequency range:
GSM 900: 824 - 960 MHz
GSM 1800:1710 - 1880 MHz
Impedance: 50 Ohm
Max power: 20 W
VSWR: < 3
Gain: 2 dBi
Cable length: RG 316 170 mm with MMCX male right angle
Dimensions of PCB in mm: 62 x 22

Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples

- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

Other antenna connectors upon request.

PCB Antenna
Tri Band 900/1800/1900
ANT-GXP401-MMCX/M

PCB antenna tri band including 160 mm RG178 cable for use in wireless communication.

Technical data GSM

Frequency range:
GSM 900: 824 - 960 MHz
GSM 1800:1710 - 1990 MHz
Impedance: 50 Ohm
Max power: 10 W
Return loss: -7,5 db
Peak gain: 1,0 dBi
Size of PCB: 82 mm x 21 mm
Cable length: RG 178 160 mm with MMCX male right angle
Dimensions of PCB in mm: 82 x 21
Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples

- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

Other antenna connectors upon request.

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PCB Antenna
Quad Band 850/900/1800/1900
UMTS/Bluetooth
ANT-GXP115-MMCX/M

Technical data GSM

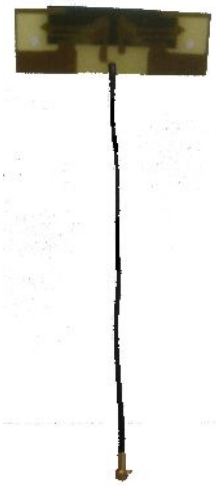
Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2,1GHz/Bluetooth 2,4GHz
Gain: 2 dBi
VSWR :
900MHz <1,5 1800MHz <1,2
2100MHz < 1,5 2400MHz < 2,0
Impedance: 50 Ohm
Max Power: 25W
Polarization: Vertical
Connector: MMCX/M
Size: 42 x 16 x 1,6 mm

Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples

- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

PCB Antenna
Quad Band 850/900/1800/1900
UMTS/Bluetooth
ANT-GXP116-MMCX/M



Technical data GSM

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2,1GHz/Bluetooth 2,4GHz
Gain: 2 dBi
VSWR : <1,5/2
Impedance: 50 Ohm
Max Power: 25W
Polarization: Vertical
Connector: MMCX/M
Size: 25 x 75 mm

Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples

- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

PCB Antenna
Quad Band 850/900/1800/1900
UMTS/Bluetooth
ANT-GXP117-MMCX/M

Technical data GSM
Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2,1GHz/Bluetooth 2,4GHz
Gain: 2 dBi
VSWR :
Impedance: 50 Ohm
Max Power: 25W
Polarization: Vertical
Connector: MMCX/M
Size: 68 x 46

Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples
- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

PCB Antenna
Quad Band 850/900/1800/1900
UMTS/Bluetooth
ANT-GXP114-MMCX/M

Technical data GSM
Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2,1GHz/Bluetooth 2,4GHz
Gain: 2 dBi
VSWR : <1,5/2
Impedance: 50 Ohm
Max Power: 25W
Polarization: Vertical
Connector: MMCX/M
Size: 22 x 62 mm

Special PCB antenna for use inside plastic casing. To get the best radiation, the casing should be made of plastic. The casing should NEVER contain carbon. The minimum distance to metal components should be 40 mm. You will get the best performance using a distance of 80 mm.

Application examples
- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

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Helical Antenna Dual Band 900/1800
ANT-GXR201-MMCX/M

Helical antenna dual band for use in wireless communication. This antenna is used in wireless payphones and is also perfect for security applications and metering.

Top view

Back view

On top of a small plastic case

Inside plastic case

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800:1710 - 1880 MHz
Gain: 2 dBi
VSWR: <=3
Nominal: Impedance 50 Ohm
Polarization: Vertical or Horizontal
Max power: 25 W
Connector MMCX Male or customisation
Weight: 22 g
Cable length: 350 mm +/- 50 mm
Connector: MMCX right angle
Dimensions in mm: 50 x 43 x 20

This very small helical antenna comes with high gain and low VSWR. It will give you superior performance at a low price. Additionally you will save money since it comes with an MMCX connector (other connectors on request).
If you use a rubber plate between your plastic casing and this antenna you can reach a higher IP class due to protection against water and dust. The flat design protects against vandalism.

Please note that this antenna should not mount on a metal enclosure. The plastic is not UV light resident. For outdoor use we recommend to use the flat antenna ANT-GXR623, because it is resident against UV light.

Application examples

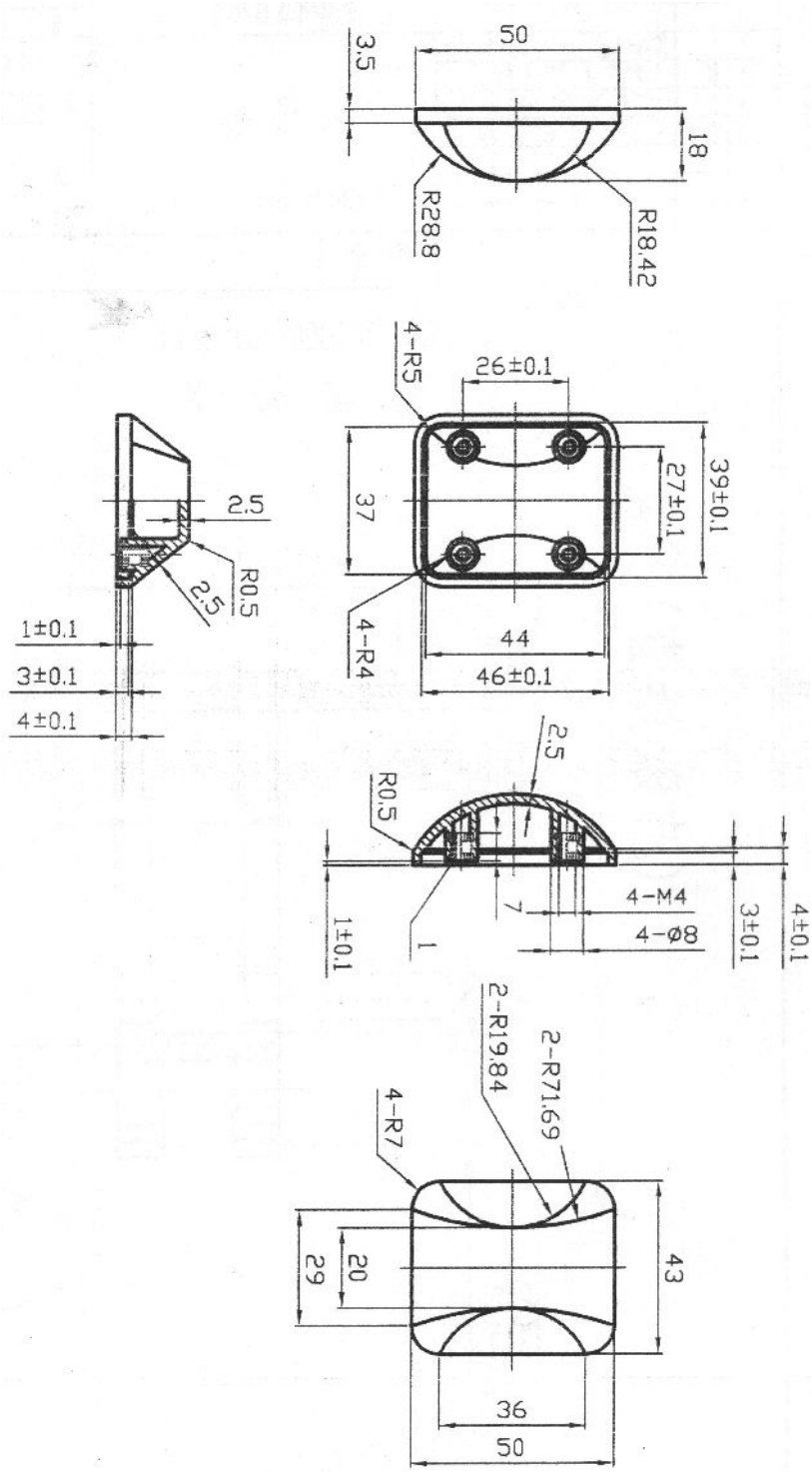
- Vending machines
- Alarm boxes
- Remote metering
- Telemetry applications
- Public payphones
- POS terminals

ANT-GXR201-SMA/M 350mm +/- 50mm cable, connector SMA male

Other antenna connectors upon request.

Draft of Helical Antenna GSM 900/1800 ANT-GXR201-MMCX/M and ANT-GXR211-MMCX/M

Helical antenna dual band for use in wireless communication. This antenna is used in wireless payphones and is also perfect for security applications and metering.



Helical Antenna Tri Band 900/1800/1900 ANT-GXR203-MMCX/M

Helical antenna Tri band for use in wireless communication. This antenna is used in wireless payphones and is also perfect for security applications and metering.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain 2,15dBi
VSWR A: <=1,6 B: <=2,5
Impedance 50 Ohm
Polarization: Vertical
Max Power: 50 W
Connector: MMCX Male or customisation
Weight: 50 g
Cable length: 400 mm +/-50 mm
Connector: MMCX right angle
Rod length: 90 mm

This helical antenna comes with high gain and very low VSWR and will give you best performance at a low price. The antenna is inexpensive and comes with a connector cable. RF connectors on request.
If you use a rubber plate between your plastic casing and this antenna then you can reach a higher IP class due to protection against water and dust.

ANT-GXR203-SMA/M 400 mm +-50 mm, connector SMA Male

Other antenna connectors upon request.

Portable Antenna Quad Band 850/900/1800/1900 ANT-GXH914-SMA/M

Quad band for use in wireless communication. This antenna can be connected to a SMA bulk head or SMA panel mount in your casing. See also RF cables with SMA bulk head.

Technical data GSM

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain 1,5 dBi
VSWR A: <=2,0
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 50 W
Connector: SMA Male
Weight: 20 g
Rod length: 51 mm

Portable Antenna Quad Band 850/900/1800/1900 ANT-GXH915-SMA/M

Quad band for use in wireless communication. This antenna can be connected to a SMA bulk head or SMA panel mount in your casing. See also RF cables with SMA bulkhead.

Technical data GSM

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain: 1,5 dBi
VSWR A:<=2,0
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 25W
Connector: SMA Male
Weight:20 g
Rod length: 60 mm

Portable Antenna Multi Band 850/900/1800/1900/UMTS/ Bluetooth ANT-GXH616-FME/F

Quad band for use in wireless communication. This antenna can be connected to a FME head in your casing. Supports Bluetooth and UMTS.

Technical data

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2100 MHz
Bluetooth 2.4 GHz
Gain 2,2 dBi
VSWR A: <=2,0
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 50 W
Connector: FME Female
Weight: 20 g
Rod length: 61 mm

Portable Antenna Multi Band 850/900/1800/1900/UMTS/ Bluetooth ANT-GXH617-FME/F

Quad band for use in wireless communication. This antenna can be connected to a FME head in your casing. Supports Bluetooth and UMTS.

Technical data

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2100 MHz
Bluetooth 2.4 GHz
Gain: 2,2 dBi
VSWR A:<=2,0
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 25W
Connector: FME Female
Weight:20 g
Rod length: 53 mm

Portable Antenna Multi Band 850/900/1800/1900/UMTS/ Bluetooth ANT-GXH918-TNC/M

Multi band for use in wireless communication. Supports Bluetooth and UMTS.

Technical data

Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
UMTS 2100 MHz
Bluetooth 2.4 GHz
Gain: 2,2 dBi
VSWR A:<=2,0
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 25W
Connector: TNC Male
Weight: 20 g
Rod length: 61 mm

Portable Antenna Tri Band 900/1800/1900 ANT-GXH204-SMA/M

Tri band for use in wireless communication. This antenna can be connected to a SMA bulk head or SMA panel mount in your casing. See also RF cables with SMA bulk head.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain 2 dBi
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 50 W
Connector: SMA Male
Weight: 20 g
Rod length: 44 mm

Portable Antenna
Tri Band 900/1800/1900
ANT-GXH205-SMA/M

Dual band for use in wireless communication. This antenna can be connected to a SMA bulk head or SMA panel mount in your casing. See also RF cables with SMA bulkhead.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain: 3 dBi
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 25W
Connector: SMA Male
Weight:30 g
Rod length: 75 mm

Portable Antenna
Dual Band 900/1800
ANT-GXH254-FME/F

Dual band for use in wireless communication. This antenna can be connected to a FME bulk head or FME panel mount in your casing. See also RF cables with FME bulk head.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800:1710 - 1880 MHz
Gain: 2 dBi
VSWR : < 1: 2.0
Impedance: 50 Ohm
Polarization: Vertical
Connector: FME Female
Rod length: 50 mm

Portable Antenna
Dual Band 900/1800
ANT-GXH255-FME/F

Dual band for use in wireless communication. This antenna can be connected to a FME bulk head or FME panel mount in your casing. See also RF cables with FME bulk head.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800:1710 - 1880 MHz
Gain: 2 dBi
VSWR : < 1: 2.0
Impedance: 50 Ohm
Polarization: Vertical
Connector: FME Female
Rod length: 46 mm

Portable Antenna
Tri Band 900/1800/1900
ANT-GXH206-SMA/M

Triple band for use in wireless communication. This antenna can be connected to a SMA bulk head or SMA panel mount in your casing. See also RF cables with SMA bulk head.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800/1900 : 1710 - 1990 MHz
Gain: 2,5 dBi
VSWR: A:<=2,0 B:<=3,0
Nominal Impedance: 50 Ohm
Polarization: Vertical
Max Power: 50W
Connector: SMA Male
Weight: 50g
Rod length: 210mm

Portable Antenna Dual Band 900/1800 ANT-GXH902-FME/F

Dual band for use in wireless communication. This antenna can be connected to a FME bulk head or SMA panel mount in your casing. See also RF cables with FMA bulk head.

Technical data GSM

Frequency range:
GSM 900: 890 - 960 MHz
GSM 1800:1710 - 1880 MHz
Gain: 2 dBi
VSWR : < 2
Impedance: 50 Ohm
Polarization: Vertical
Max Power: 25 W
Connector: FME Female
Weight: 8g
Rod length: 92 mm

Portable Antenna Dual Band 900/1800 ANT-GXH111-SMA/M

Omni-directional antenna with SMA connector.

Technical data GSM

Frequency range:
GSM 900: 880: 880 - 915 MHz (uplink)
935 - 960 MHz (downlink)
GSM 1800: 1710 - 1785 MHz (uplink)
1805÷1880 MHz (downlink)
VSWR 880÷915: < 2
VSWR 935÷960: < 2
VSWR 1710÷1785: < 2
VSWR 1805÷1880: < 2
Impedance: 50 Ohm
Max power: 50 W
Gain: 2,15 dBi
Polarization: Vertical
Connector: SMA male
Rod length: 62 mm

Ultra Slim Antenna Tri Band GSM 900/1800/1900 ANT-GXE475

Multi Band ceramic antenna for assembling on PCB

(original size)

Technical data GSM

GSM 900: 880 - 960 MHz
GSM 1800 / 1900: 1710 - 1990 MHz
Impedance: 50 Ohm
Gain: 2,15 dBi
VSWR: 2,5 max. depends on environment
Polarization: Linear
Dimensions in mm: 30 x 6 x 5

Special Ultra Slim antenna for assembling on your PCB.

Application examples

- Point of sales terminals
- PDAs
- People tracking devices
- Small telemetry boxes
- PCMCA cards
- Mobile phones

Starter kit STK-GXE475

Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

This *"GXE antenna"* has to be customised on the ground plane and the enclosure of the application. Please ask for this process before your order.

Ultra Slim Antenna Multi Band GSM 900/1800/1900/UMTS ANT-GXE476

Multi Band antenna for assembling on PCB

(original size)

Technical data GSM / UMTS

GSM 900: 880 - 960 MHz
GSM 1800 / 1900 /UMTS: 1710-2170 MHz
Quad band GSM 850 band is attainable with appropriate matching circuit design
Impedance: 50 Ohm
Gain: 2,15 dBi
VSWR: 3 max. depends on environment
Polarization: Linear
Dimensions in mm: 31 x 6 x 3.3

Special Ultra Slim antenna for assembling on your PCB.

Application examples

- Point of sales terminals
- PDAs
- People tracking devices
- Small telemetry boxes
- PCMCA cards
- Mobile phones

Starter kit STK-GXE476

Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

This *"GXE antenna"* has to be customised on the ground plane and the enclosure of the application. Please ask for this process before your order.

Ultra Slim Antenna Bluetooth ANT-BXE480

Ceramic antenna for assembling on PCB

(original size)

Technical data Bluetooth

Bluetooth: 2400 - 2484 MHz
Impedance: 50 Ohm
Gain: 1,5 dBi
VSWR: 2 max. depends on environment
Polarization: Linear
Dimensions in mm: 10 x 4 x 3

Special Ultra Slim antenna for assembling on your PCB.

Application examples

- Point of sales terminals
- PDAs
- People tracking devices
- Small telemetry boxes
- Mobile phones

Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

Ultra Slim Antenna GPS ANT-GXE490

Ceramic antenna for assembling on PCB

(original size)

Technical data GPS

GPS: 1575,42 MHz
Impedance: 50 Ohm
Gain: 0 dBi
VSWR: 2
Polarization: Linear
Dimensions in mm: 10 x 4 x 3

Special Ultra Slim antenna for assembling on your PCB.

Application examples

- Point of sales terminals
- PDAs
- People tracking devices
- Mobile phones

Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

PCB Antenna Quad Band 850/900/1800/1900 ANT-GXE479-GSC

Technical data GSM

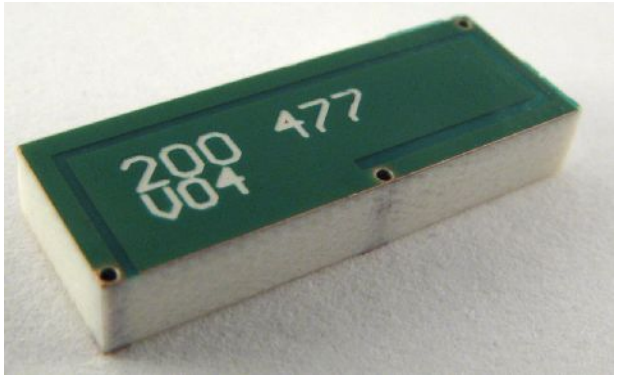
Frequency range:
GSM 850/900: 824 - 960 MHz
GSM 1800/1900:1710 - 1990 MHz
Gain: 0 dBi
VSWR : < 2.0
Impedance: 50 Ohm
Polarization: Linear
Connector: GSC
Size: 34 x 7 mm
Cable length: 100 mm +/5mm

This *"GXE antenna"* has to be customised on the ground plane and the enclosure of the application. Please ask for this process before your order

ANT-GXE479-MMCX/M version with connector MMCX/M

Ultra Slim Antenna Tri Band GSM 900/1800/1900 ANT-GXE477

Special Ultra Slim antenna for assembling on your PCB



Technical data GSM

Frequency range:
GSM 850: 824 – 894 MHz VSWR 2:1 Gain 0 dBi
GSM 900: 880 – 960 MHz, VSWR 2:1 Gain 0 dBi
GSM 1800: 1710 – 1880 MHz, VSWR 2:1, Gain 1 dBi
GSM 1900: 1850 – 1990 MHz, VSWR 2:1, Gain 1 dBi

Dimensions in mm: 20.5 x 7 x 3.2

Application examples

- Point of sales terminals
- PDAs
- People tracking devices
- Small telemetry boxes
- PCMCA cards
- Mobile phones

This SMT Antenna will be delivered "Tape and Reel". It can be used as a triband GSM 900 / 1800 / 1900 or as a GSM 850 / 1800 / 1900 with matching circuit.

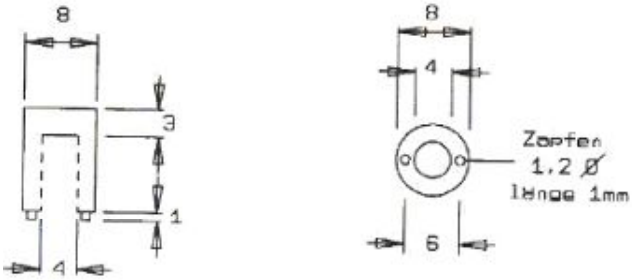
Starter Kit STK-GXE477

This *"GXE antenna"* has to be customised on the ground plane and the enclosure of the application. Please ask for this process before your order.

Helical Antenna ISM Band 868 MHz

ANT-IXE902

Helical antenna for assembling on PCB



Technical data ISM 868

ISM band: 868 MHz +/- 10 MHz
Impedance: 50 Ohm
Gain: 2,15 dBi
VSWR: 1,13
Polarization: Linear
Dimensions in mm: 8 x 10

Special small antenna for assembling on your PCB.

Application examples

- Point of sales terminals
- PDAs
- Metering systems

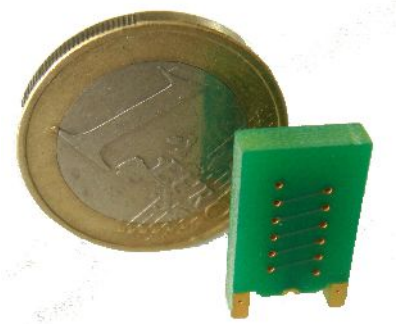
Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

Center frequency and bandwidth can be changed on customer specification.

Helical Antenna ISM Band 868 MHz

ANT-IXE903

Ultra slim PCB antenna for assembling on PCB



Technical data ISM 868

ISM band: 863 - 873 MHz
Impedance: 50 Ohm
Gain: 0 dBi
VSWR: < 2
Polarization: Vertical
Dimensions in mm: 10 x 17 mm

Special small antenna for assembling on your PCB.

Application examples

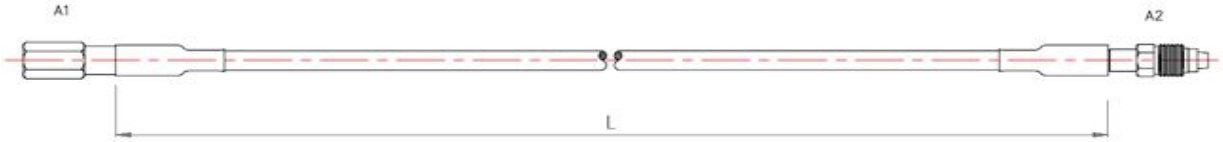
- Point of sales terminals
- PDAs
- Metering systems

Please ask for the assembling guideline, before you start with implementation of this antenna on your PCB.

Center frequency and bandwidth can be changed on customer specification.

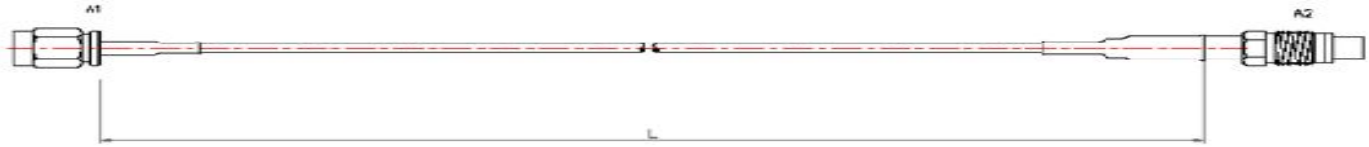
Cable CAB-FME/F500FME/M

RF cable FME/F, x mm RG 58 RF cable, FME/M bulkhead, CAB-FME/F500FME/M (5000 mm cable), other length on request



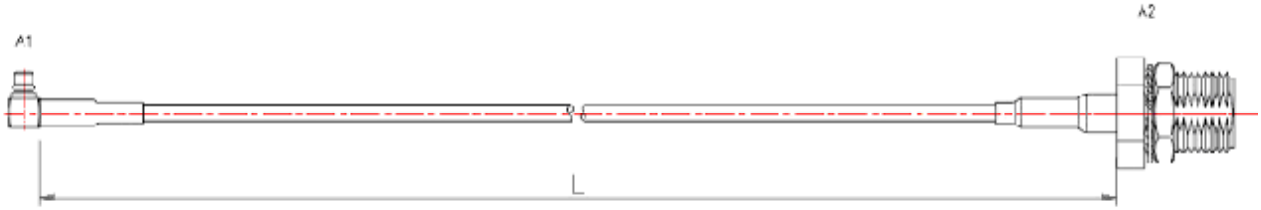
Cable CAB-FME/F500SMA/M

RF cable FME/F, x mm RG 174, SMA/M, CAB-FME/F500SMA/M bulkhead, (5000 mm cable), other length on request



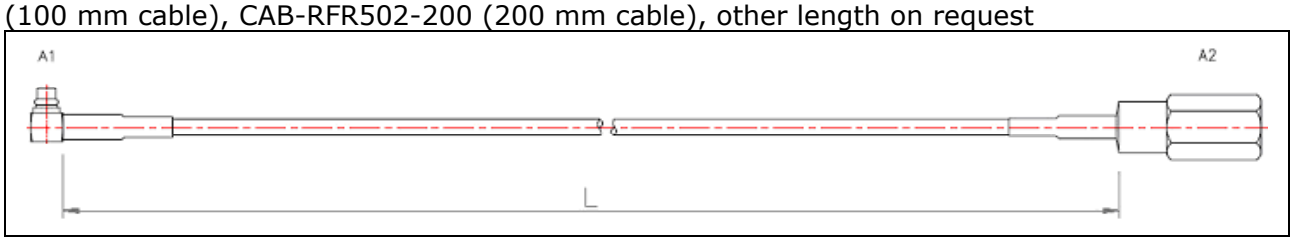
Cable CAB-RFR501-X MMCX/M to FME/M bulkhead

RF cable MMCX/M right angle, x mm RG 174, FME/M bulkhead, CAB-RFR501-100 (100 mm cable), CAB-RFR501-200 (200 mm cable), other length on request



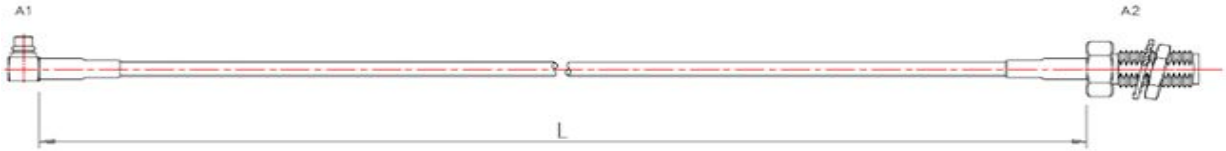
Cable CAB-RFR502-X MMCX/M to FME/M

RF cable MMCX/M right angle, x mm RG 174, FME/M, CAB-RFR502-100 (100 mm cable), CAB-RFR502-200 (200 mm cable), other length on request



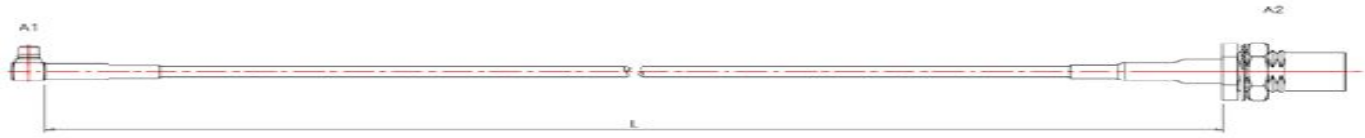
Cable CAB-RFR503-X MMCX/M to SMA/F bulkhead

RF cable MMCX/M right angle, x mm RG 174, SMA/F bulkhead, CAB-RFR503-150 (150 mm cable), CAB-RFR503-200 (200 mm cable), other length on request

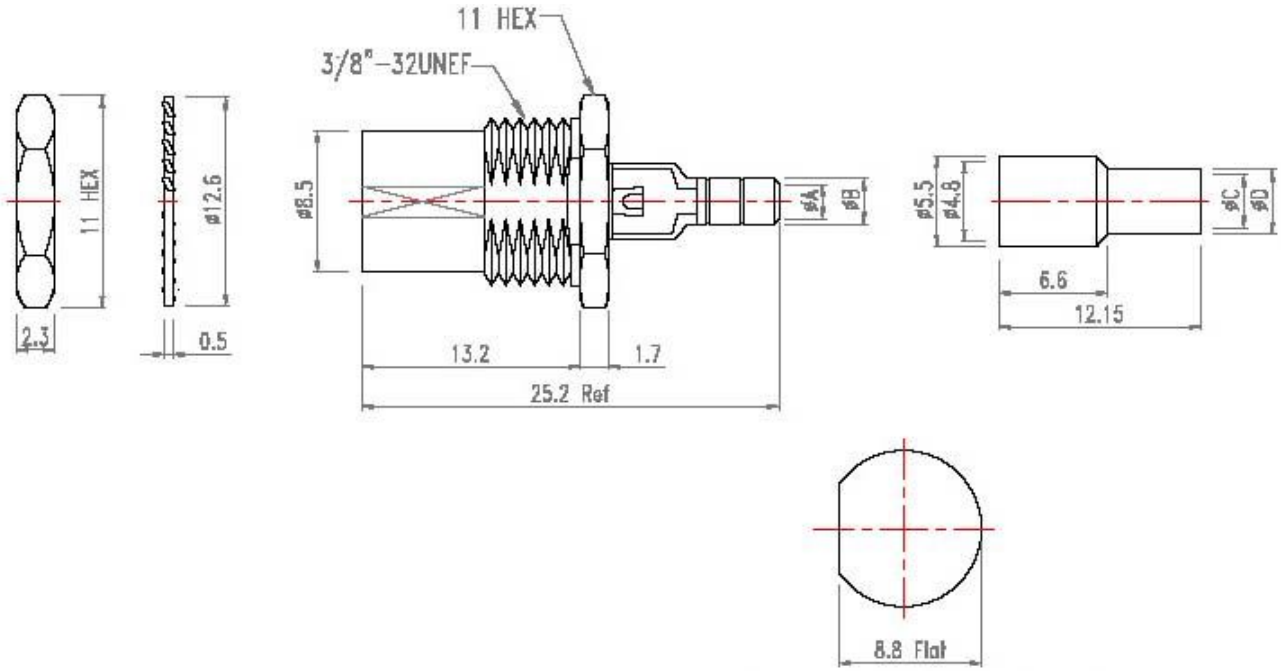


Cable CAB-RFR505-X MMCX/M to slim FME/M bulkhead

RF cable MMCX/M right angle, x mm RG 174 and RG178, slim FME/M bulkhead, CAB-RFR505-135 (135 mm cable), CAB-RFR505-200 (200 mm cable), other length on request



Slim FME bulkhead:

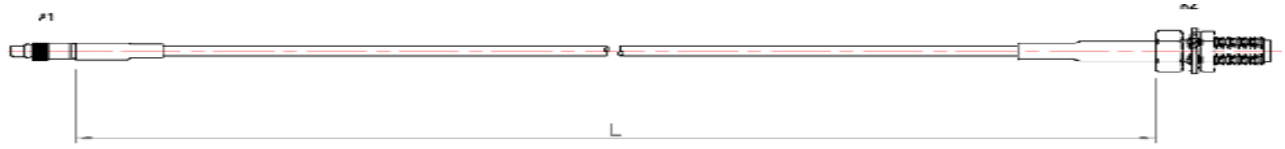


Cable CAB-RFR506-X MMCX/M to SMA/F bulkhead

RF cable MMCX/M right angle, x mm RG 178, SMA/F bulkhead, CAB-RFR506-100 (100 mm cable), CAB-RFR506-200 (200 mm cable), other length on request

Cable CAB-RFR523-60 MMCX/M to SMA/F bulkhead

RF cable MMCX/M straight, x mm RG 174, SMA/F bulkhead, CAB-RFR523-60 (60 mm cable), other length on request

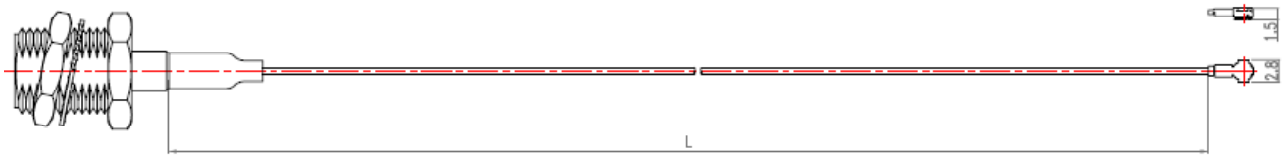


Cable CAB-RFR551-X U.FL to FME/M bulkhead

RF cable U.FL right angle, x mm RF cable, FME/M bulkhead, CAB-RFR551-100 (100 mm cable), CAB-RFR551-200 (200 mm cable), other length on request

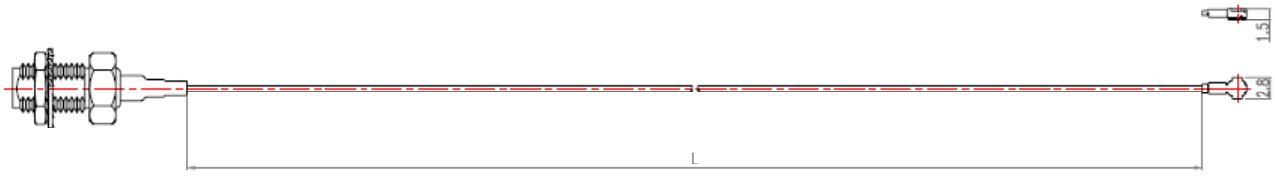
Cable CAB-RFR701-X GSC to FME/M bulkhead

RF cable GSC right angle, x mm RF cable, FME/M bulkhead, CAB-RFR701-100 (100 mm cable), CAB-RFR701-200 (200 mm cable), other length on request



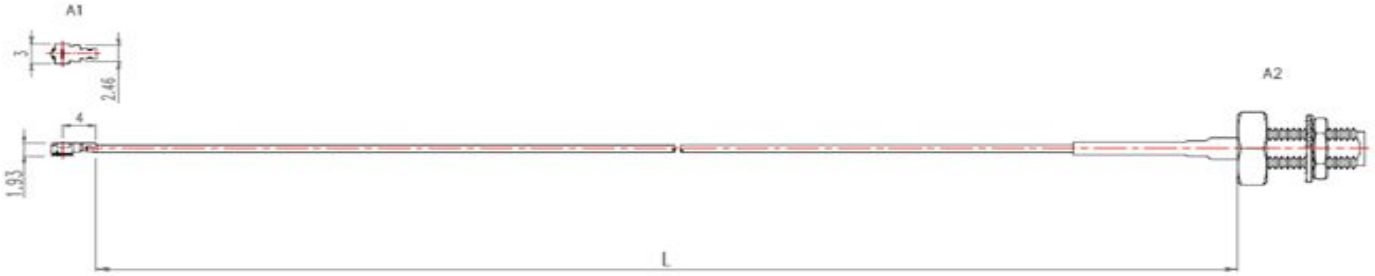
Cable CAB-RFR703-X GSC to FME/M bulkhead

RF cable GSC right angle, x mm RF cable, FME/M bulkhead, CAB-RFR703-100 (100 mm cable), CAB-RFR703-200 (200 mm cable), other length on request



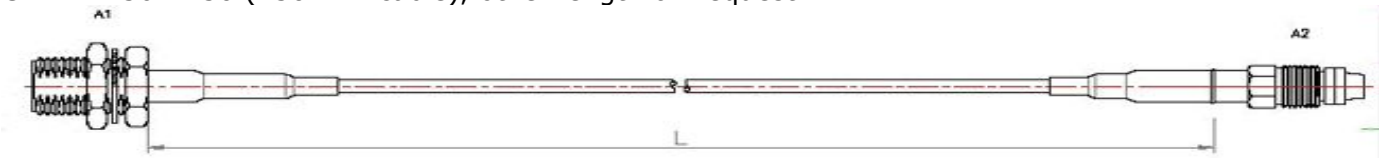
Cable CAB-RFR553-X U.FL to SMA/F bulkhead

RF cable U.FL right angle, x mm RF cable, SMA/F bulkhead, CAB-RFR553-100 (100 mm cable), CAB-RFR553-200 (200 mm cable), other length on request



Cable CAB-RFR561-X FME/F to FME/M bulkhead

RF cable FME/F, x mm RF cable, FME/M bulkhead, CAB-RFR561-100 (100 mm cable), CAB-RFR561-250 (250 mm cable), other length on request



Cable CAB-RFR602-150

RF cable H.FL right angle x mm 1,32 cable, SMA/F bulkhead, CAB-RFR602-150 (150 mm cable) other length on request

Cable CAB-RFR701-100 GSC straight to FME/M bulkhead

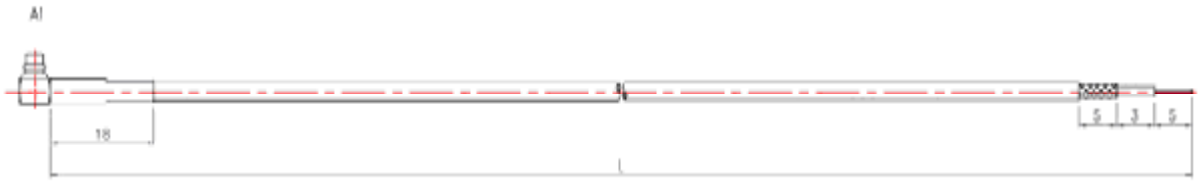
RF cable GSC straight x mm RG 174 cable, FME/M bulkhead, CAB-RFR701-100 (100 mm cable), CAB-RFR701-200 (200 mm cable), other length on request

Cable CAB-RFR703-100 GSC straight to SMA/M bulkhead

RF cable GSC straight x mm RG 174 cable, SMA/F bulkhead, CAB-RFR703-100 (100 mm cable), CAB-RFR703-200 (200 mm cable), other length on request

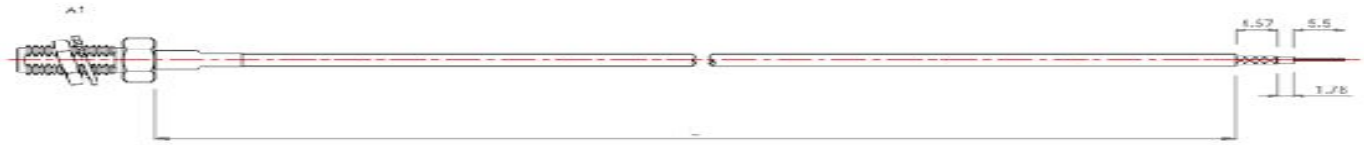
Cable CAB-RFR901-X MMCX/M to bared end

RF cable MMCX/M right angle, x mm RG316, bared end, CAB-RFR901-103 (103 mm cable), CAB-RFR901-200 (200 mm cable), other length on request



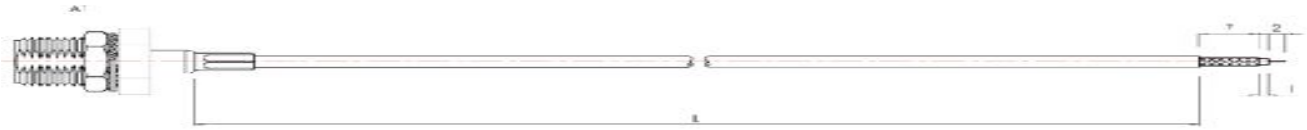
Cable CAB-RFR811-X SMA/F bulkhead to bared end

RF cable SMA/F, x mm RG 174, bared end, CAB-RFR811-100 (100 mm cable), CAB-RFR811-200 (200 mm cable), other length on request



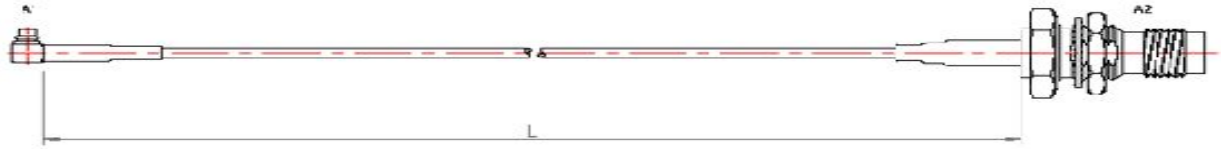
Cable CAB-RFR913-X FME/M bulkhead bared end

RF cable FME/M bulkhead, x mm RG 174, bared end, CAB-RFR913-100 (100 mm cable), CAB-RFR913-200 (200 mm cable), other length on request



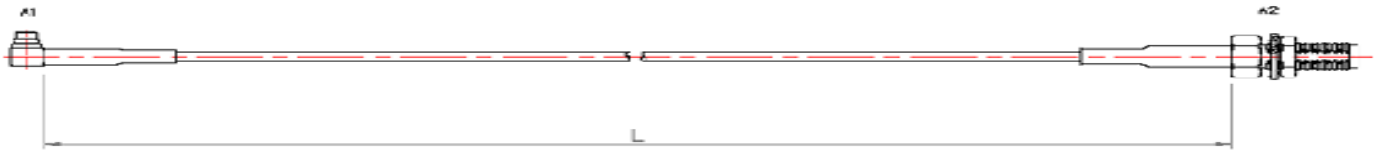
Cable CAB-RFR951-X MMCX/M to TNC bulkhead

RF cable MMCX/M right angle, x mm RG 174, TNC bulkhead, CAB-RFR951-250 (250 mm cable), other length on request



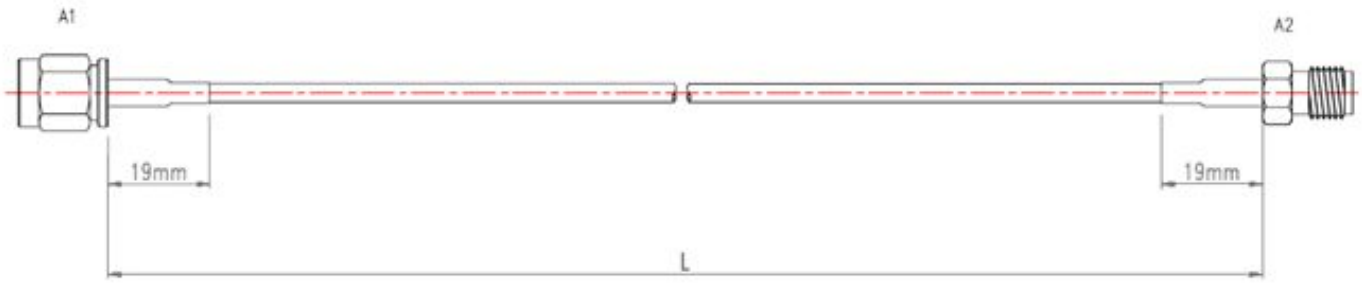
Cable CAB-RFR952-X MMCX/M to SMA bulkhead

RF cable MMCX/M right angle, x mm RG 174, SMA bulkhead, CAB-RFR952-250 (250 mm cable), other length on request



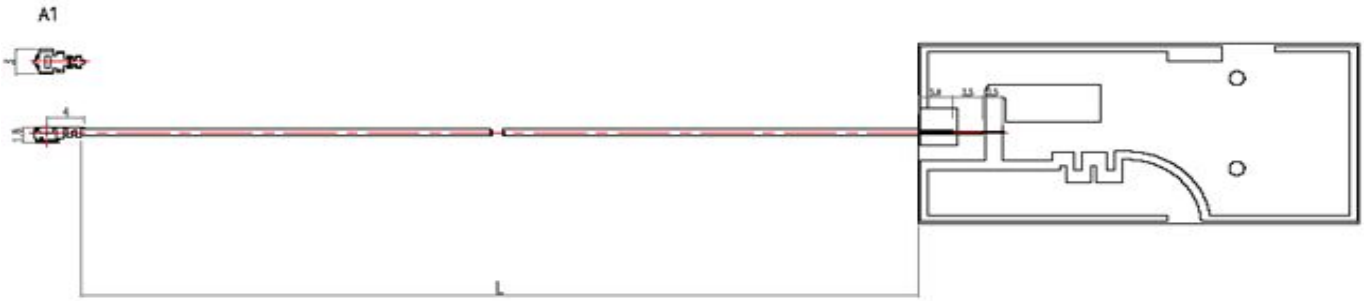
CAB-SMA/M200SMA/M-X cable SMA male to SMA female

RF cable SMA/M, x mm RG 174, SMA/F, CAB-SMA/M200SMA/F- (2000 mm cable), CAB-SMA/M400SMA/F (4000 mm cable), other length on request



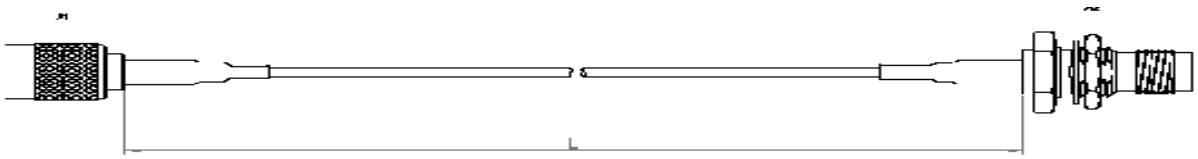
Customised cable example with MC380 connector

RF cable MMCX/M, 0,81 mm cable soldered to ANT-GXP113. U.FL or any other RF connector you require, other length on request



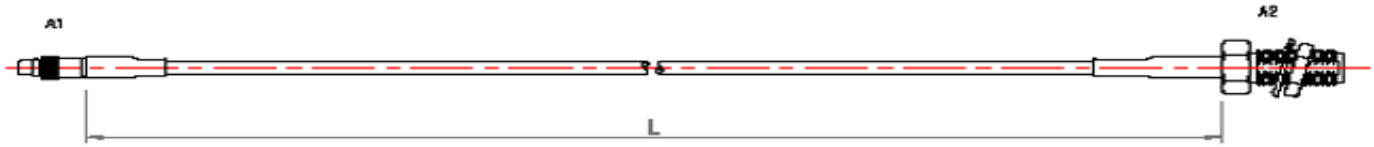
Example CAB-RFR953 TNC/F bulkhead to TNC male

RF cable TNC bulkhead female, x mm RG 174, TNC male, CAB-RFR953-2130 (2130 mm cable), other length on request



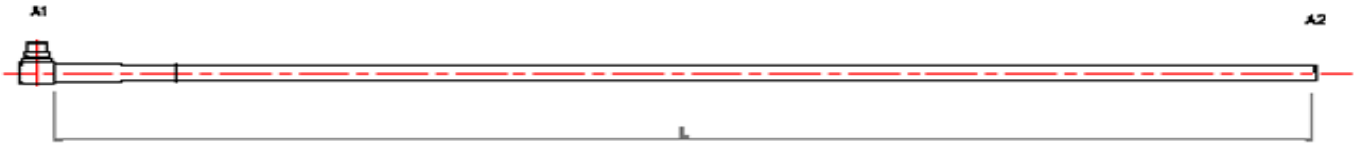
Example CAB-RFR954 MMCX/M straight to SMA/F

RF cable MMCX/M straight, x mm RG 174, SMA/F bulkhead, CAB-RFR954-400 (400 mm cable), other length on request



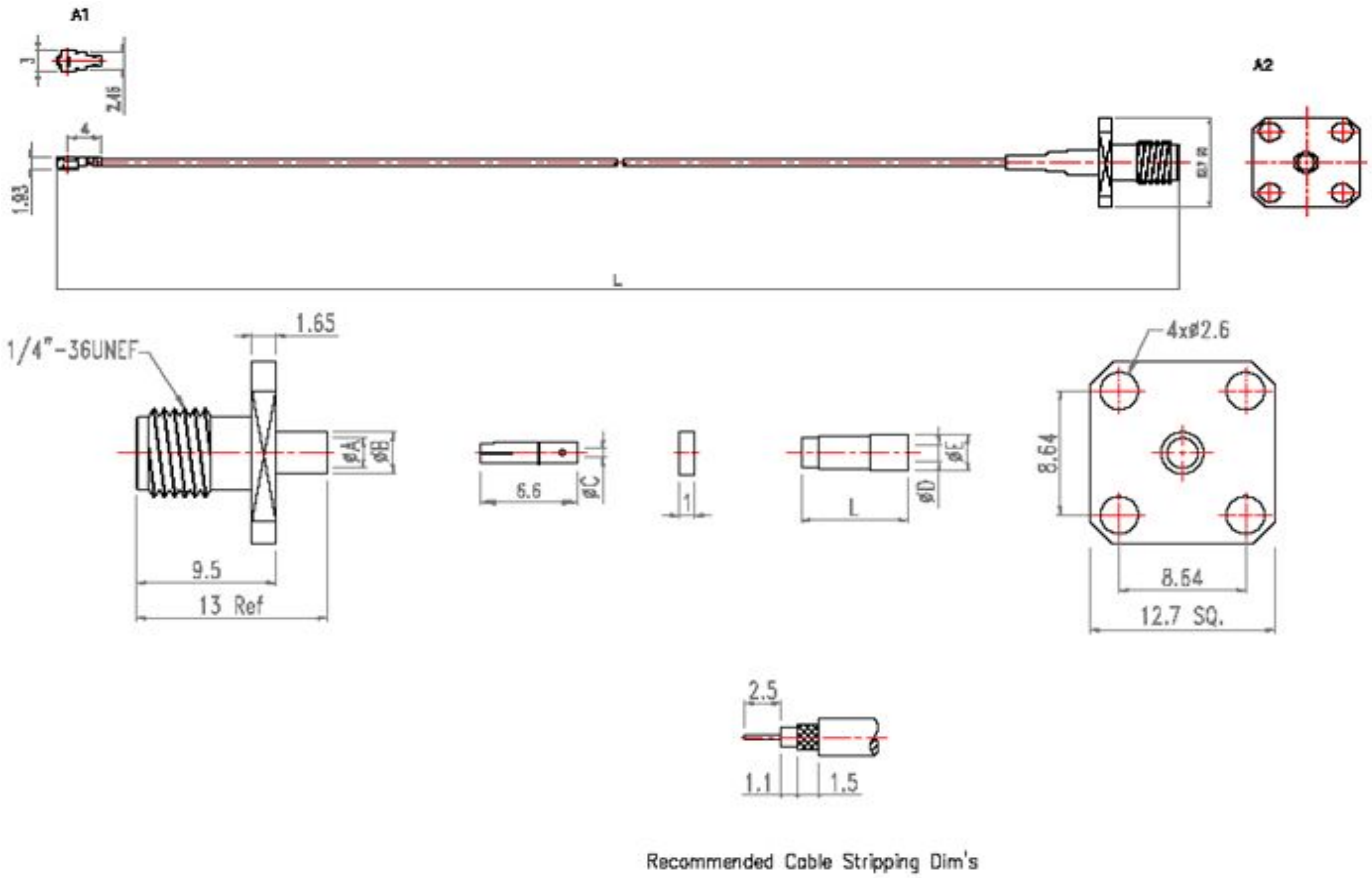
Customised CAB-RFR956 MMCX/M to open end

RF cable MMCX/M right angle, x mm RG 174, open end, CAB-RFR956-215 (215 mm cable), other length on request



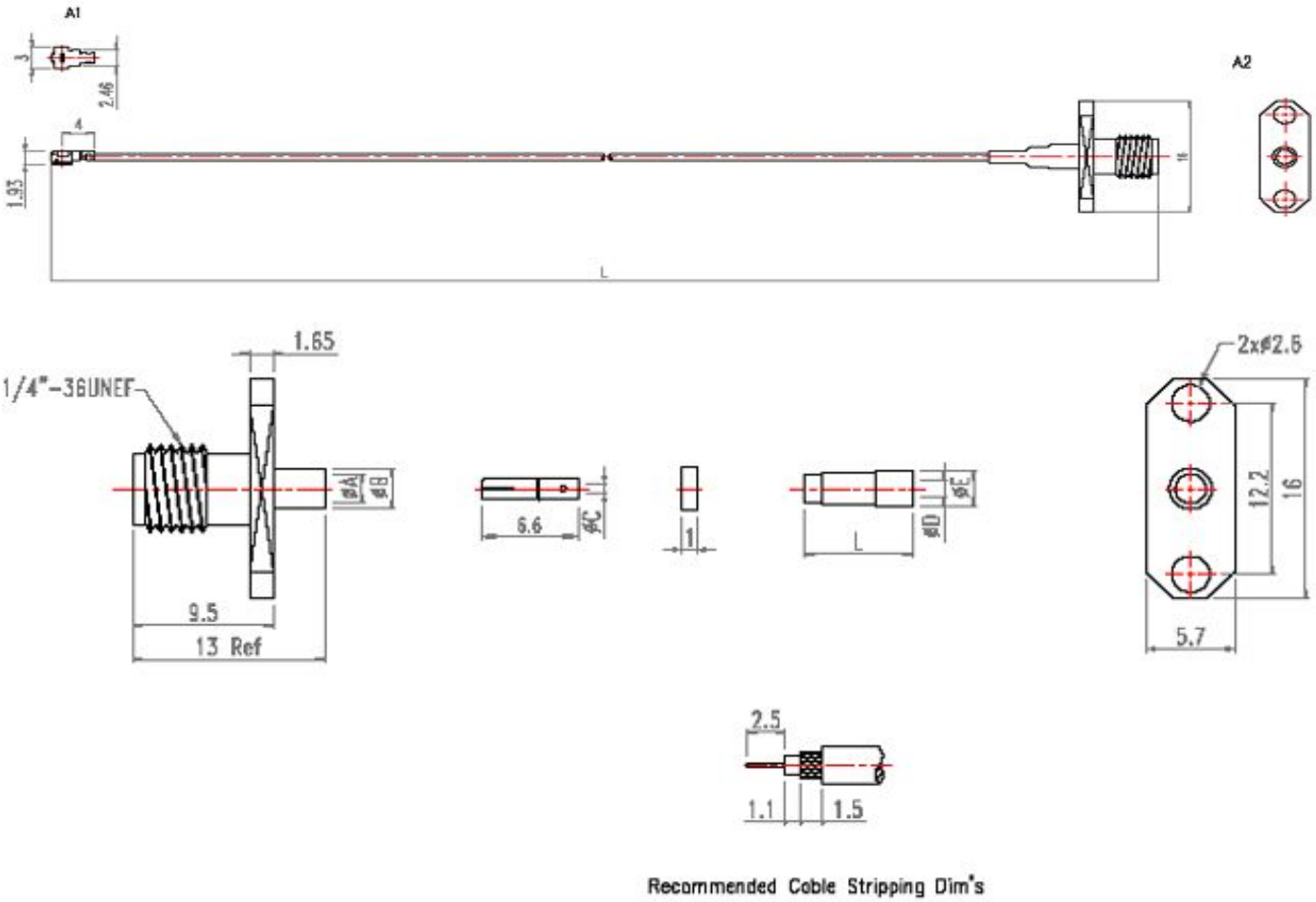
Customised CAB-RFR959

RF cable U.FL, SMA panel 4 hole jack, x mm 1,03 cable, CAB-RFR959-130 (130 mm cable), other length on request

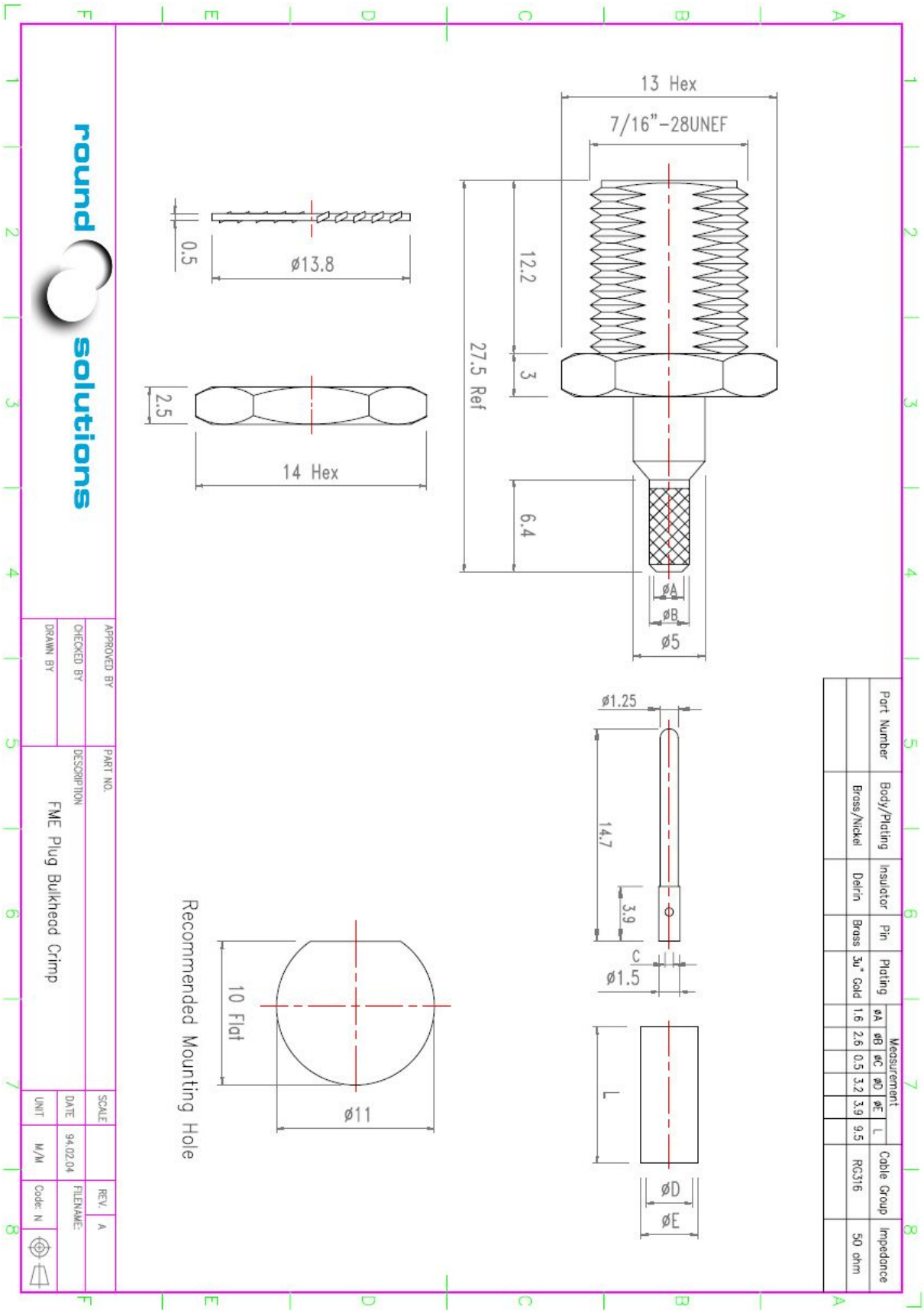


Customised CAB-RFR960 U.FL to SMA

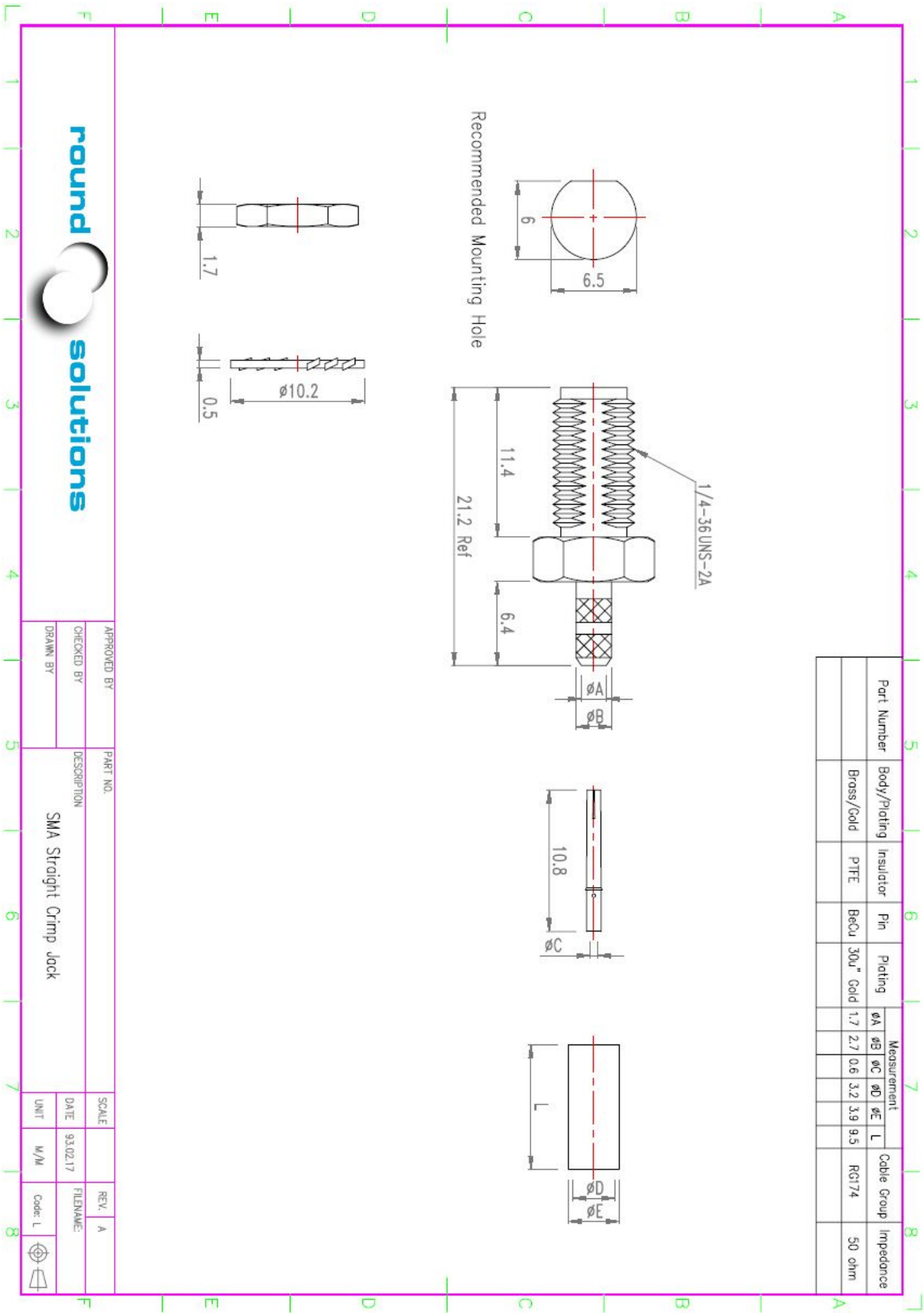
RF cable U.FL, SMA panel 2 hole jack, x mm 1,03 cable, CAB-RFR960-130 (130 mm cable), other length on request



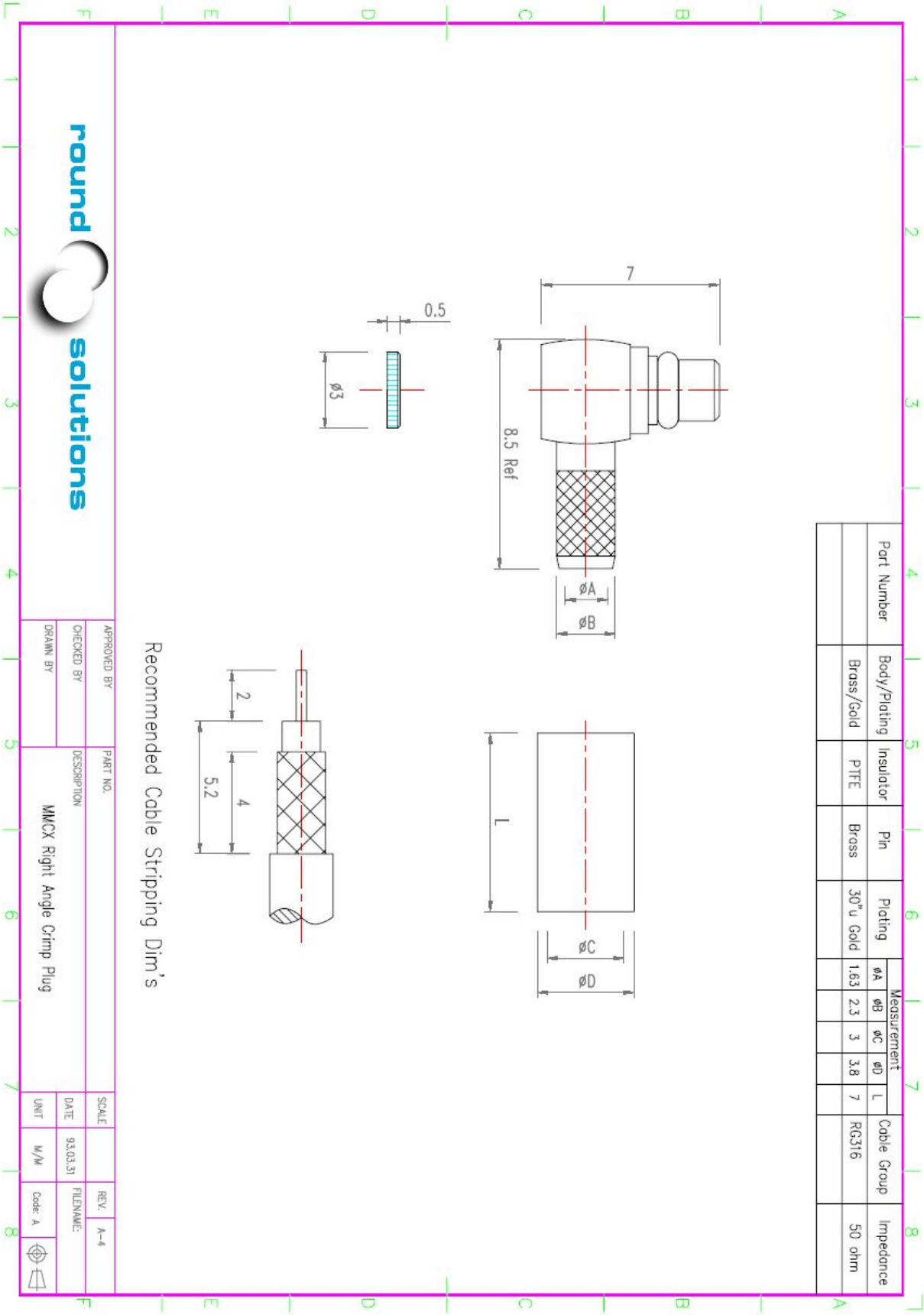
Connector FME/M bulkhead D3G



Connector SMA/F straight crimp female



Connector MMCX/M right angle male 30G



PCB mounted connectors (SMT):

PCB mounted antenna connectors for any kind of BGA modules

- RS-CON-PCB-FME/M
- CON-RS103 (right angle SMA/M)
- CON-RS209 (right angle SMA/F)
- CON-RS211 (right angle MMCX/F)
  (from left to right on the photo)

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