

# Calian GNSS Part Number Ordering Guide

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## Embedded Antenna Family of Products

Custom Tuning is Highly Recommended for all Embedded Antennas

Part Number Structure : **33-aaaa-xx-yyyy** (Please see Page 8 for Embedded Helicals)

**aaaa** = Model      **xx** = Connector      **yyyy** = Cable Length in mm

00 = SMA Straight Male (plug)	15 = TNC male (plug)	26 = SMB Straight Female
02 = MCX Straight Male (plug)	16 = N-Type Male**	27 = MCX Straight Female
03 = MMCX Straight Male (plug)	17 = BNC Male**	29 = R/A SSMCX Plug**
04 = SMB Straight Male (plug)	18 = FME**	30 = SMB with Overmold**
05 = MCX Right Angle Male (plug)	19 = MMCX Female	35 = MMBX**
06 = MMCX Right Angle male (plug) **	20 = SMA Female	37 = R/A Male SMB**
09 = U.FL (micro-coax cable)	21 = SMA Right Angle Female**	38 = TNC Female
10 = SMA Right Angle**	22 = R/A QMA**	39 = TNC Right Angle Male**
11 = Reverse Polarity SMA**	23 = SMP Straight Female (Jack)	40 = SMP R/A Female**
12 = Waterproof SMA**	24 = SMC Male	
13 = SSMA**	25 = SMC Straight Female	

If ordering one of our NEW (July 1, 2021) Extended Filtering models, the part number will be **33-aaaaXF-xx-yyyy**  
*XF = Extended Filtering (Only available with TW3967 & TW3972E)*

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm for RG174 , 1450mm for Micro-Coax

**\*\* Premiums apply. Please check with your Distributor.**

## TW2000 Family of Products

Part Number Structure : 33-2aaa-xx-yyyy

2aaa = Model

xx = Connector

yyyy = Cable Length in mm (if applicable)

### Valid Connectors (xx)

#### Without Cable:

07 = SMA Female (jack) bulkhead

#### With Cable:

00 = SMA Straight Male (plug)

02 = MCX Straight Male (plug)

03 = MMCX Straight Male (plug)

04 = SMB Straight Male (plug)

05 = MCX Right Angle Male (plug)

06 = MMCX Right Angle male (plug)\*\*

10 = SMA Right Angle\*\*

11 = Reverse Polarity SMA\*\*

12 = Waterproof SMA\*\*

13 = SSMA\*\*

15 = TNC male (plug)

16 = N-Type Male\*\*

17 = BNC Male\*\*

18 = FME\*\*

19 = MMCX Female

20 = SMA Female

21 = SMA Right Angle Female\*\*

22 = R/A QMA\*\*

23 = SMP Straight Female (Jack)

24 = SMC Male

25 = SMC Straight Female

26 = SMB Straight Female

27 = MCX Straight Female

29 = R/A SSMCX Plug\*\*

30 = SMB with Overmold\*\*

31 = SMC R/AFemale\*\*

35 = MMBX\*\*

37 = R/A Male SMB\*\*

38 = TNC Female

39 = TNC Right Angle Male\*\*

40 = SMP R/A Female\*\*

**NOTE: To order the TW2000 antennas with No Magnet, add "NM" after the Product (eg. 33-2410NM-07).**

**To add Adhesive Tape to the bottom of the TW2000, add "AT" after the Product (eg. 33-2410AT-07).**

**If you would like both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-2410NMAT-07). To order the TW2000 antennas with rubber gasket add RG after the Product (eg. 33-2410RG-07). Please note that RG is incompatible with AT.**

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm

**\*\* Premiums apply. Please check with your Distributor.**

## TW3000 Family of Products

Please Refer to Embedded Antennas for all dual & triple band embedded TW3000 configurations.

**Part Number Structure :** 33-3aaa**bb**-xx-yy-zzzz

3aaa = Model      bb = Modifier (if applicable)      xx = Connector  
 yy = Radome      zzzz = Cable Length in mm  
 (Type and Colour)      (if applicable)

### Valid Connectors (xx)

#### Without Cable:

01 = TNC Female      14 = N-Type Female\*\*

#### With Cable:

00 = SMA Straight Male (plug)	16 = N-Type Male**	27 = MCX Straight Female
02 = MCX Straight Male (plug)	17 = BNC Male**	29 = R/A SSMCX Plug**
03 = MMCX Straight Male (plug)	18 = FME**	30 = SMB with Overmold**
04 = SMB Straight Male (plug)	19 = MMCX Female	31 = SMC R/AFemale**
05 = MCX Right Angle Male (plug)	20 = SMA Female	35 = MMBX**
06 = MMCX Right Angle male (plug) **	21 = SMA Right Angle Female**	37 = R/A Male SMB**
10 = SMA Right Angle**	22 = R/A QMA**	38 = TNC Female
11 = Reverse Polarity SMA**	23 = SMP Straight Female (Jack)	39 = TNC Right Angle Male**
12 = Waterproof SMA**	24 = SMC Male	40 = SMP R/A Female**
13 = SSMA**	25 = SMC Straight Female	
15 = TNC male (plug)	26 = SMB Straight Female	

**Modifiers (bb):** ST = Short Thread (**ST not valid with 01 or 14 connectors**) AJ = Anti-Jamming Configuration\*\*  
 XF = Extended Filtering (Only available with TW3872 & TW3972)

**Maximum Cable Length:** 5000mm    **Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**\*\* Premiums apply. Please check with your Distributor.**

Anti Jamming Part# 33-aaaaAJ-xx-y-zzzz (Cable Optional)

### Radome Codes (yy):

00 = Dark grey Conical    10 = Dark grey low profile    12 = Black low profile    01 = White Conical    11 = White low profile

### AJ Antenna Radome Code (y):

W = White    G = Grey (For TW3742, and TW3752 only)

## TW4000 Family of Products

Part Number Structure : 33-4aaa-xx-yyyy

4aaa = Model

xx = Connector

yyyy = Cable Length in mm

### Valid Connectors (xx)

#### Cable required:

00 = SMA Straight Male (plug)	16 = N-Type Male**	27 = MCX Straight Female
02 = MCX Straight Male (plug)	17 = BNC Male**	28 = SSMCX Straight Plug**
03 = MMCX Straight Male (plug)	18 = FME**	29 = R/A SSMCX Plug**
04 = SMB Straight Male (plug)	19 = MMCX Female	30 = SMB with Overmold**
05 = MCX Right Angle Male (plug)	20 = SMA Female	35 = MMBX**
06 = MMCX Right Angle male (plug) **	21 = SMA Right Angle Female**	37 = R/A Male SMB**
10 = SMA Right Angle**	22 = R/A QMA**	38 = TNC Female
11 = Reverse Polarity SMA**	23 = SMP Straight Female (Jack)	39 = TNC Right Angle Male**
12 = Waterproof SMA**	24 = SMC Male	40 = SMP R/A Female**
13 = SSMA**	25 = SMC Straight Female	
15 = TNC male (plug)	26 = SMB Straight Female	

**NOTE: To order the TW4000 antennas with No Magnet, add "NM" after the Product (eg. 33-4421NM-00-3000).**

**To add Adhesive Tape to the bottom of the TW4000, add "AT" after the Product (eg. 33-4421AT-00=3000).**

**If you want both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-4421NMAT-00-3000).**

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm

**\*\* Premiums apply. Please check with your Distributor.**

## TW5350 / TW5351 / TW5354 (Timing & Infrastructure Positioning)

Part Number Structure : 33-535w-x-yy-zz-PCO

535w = Model      x = Voltage and Interface      yy = Radome (Type and Colour)  
 zz = Cable Length      PCO = Factory Default

<p><b>w = Model Type:</b></p> <p>0 = Standard                  1 = Non-Magnetic                  4 = Two RS422 Ports</p> <p><b>x = Voltage and Interface:</b></p> <p>7 = 5-36V (standard)                  9 = 5V LV (extended low voltage for 25m applications)</p> <p><b>PCO = Factory Default</b></p>	<p><b>Radome (yy):</b></p> <p>00 = Dark grey Conical                  01 = White Conical                  10 = Dark grey low profile                  11 = White low profile</p> <p><b>Cable Length (zz):</b></p> <p>05 = 5m (standard)                  15 = 15m*                  25 = 25m*</p>
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\*Premium applies

## TW5252 / TW5262 / TW5352 / TW5362 / TW5365 (Automotive Positioning)

Part Number Structure : 33-5uvw-7-10-05-PCO

uvw = Model      7 = 5-36v      10 = Dark Grey Low-Profile Radome  
 05 = 5m Cable      PCO = Factory Default

<p><b>Model Type:</b></p> <p><b>Mount (u):</b></p> <p>2 = magnetic                  3 = Fixed</p>	<p><b>IMU (v):</b></p> <p>5 = no IMU                  6 = IMU</p>	<p><b>Signalling (w):</b></p> <p>2 = RS232                  5 = RS422/485</p>
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## TW5(3/7)8(2/4/6) (Dual-Band High Precision)

Part Number Structure : 333-5a8w-xv-yy-zz-PCO

5a8w = Model

xv = Interface and Voltage

yy = Radome (Type and Colour)

zz = Cable Length

<p><b>a = Mount Type:</b></p> <p>3 = Through-Hole, Fixed Mount 7 = Surface Mount, Magnet</p> <p><b>w = Model Type:</b></p> <p>2 = Timing (L1/L2) 4 = Positioning (L1/L2) 6 = Positioning (L1/L2) + IMU</p> <p><b>PCO = Factory Default</b></p>	<p><b>x = Interface:</b></p> <p>0 = RS422/485 1 = USB 2 = RS232 3 = USB+BT+Wifi 4 = CMOS</p> <p><b>v = Voltage:</b></p> <p>7 = 5-36V (standard)</p>	<p><b>Radome (yy):</b></p> <p>00 = Dark grey Conical 01 = White Conical 10 = Dark grey low profile 11 = White low profile</p> <p><b>Cable Length (zz):</b></p> <p>05 = 5m (standard) 15 = 15m* 25 = 25m*</p>
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\*Premium applies

## TW5(3/7)90 (Dual-Band + IMU + L-Band)

Part Number Structure : 33-5a90-xv-yy-zz-PCO

5a90 = Model

xv = Interface and Voltage

yy = Radome (Type and Colour)

zz = Cable Length

<p><b>a = Mount Type:</b></p> <p>3 = Through-Hole, Fixed Mount 7 = Surface Mount, Magnet</p> <p>For CLAS Precise Positioning add "C" to the model number (33-5a90C-xv-yy-zz-PCO)</p> <p><b>PCO = Factory Default</b></p>	<p><b>x = Interface:</b></p> <p>0 = RS422/485 1 = USB 2 = RS232 3 = USB+BT+Wifi 4 = CMOS</p> <p><b>v = Voltage:</b></p> <p>9 = 5VLV</p>	<p><b>Radome (yy):</b></p> <p>00 = Dark grey Conical 01 = White Conical 10 = Dark grey low profile 11 = White low profile</p> <p><b>Cable Length (zz):</b></p> <p>05 = 5m (standard) 15 = 15m* 25 = 25m*</p>
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## TruPrecision SDK:

Part Number Structure : 33-TP5abbSDK-x

a = Mount Type      bb = Model      x = Interface

**a = Mount Type:**

3 = Through-Hole, Fixed Mount  
7 = Surface Mount, Magnet

**bb = Model:**

82 = Timing (L1/L2)  
84 = Positioning (L1/L2)  
86 = Positioning (L1/L2) + IMU  
90 = Timing/Positioning (L1/L2)  
+ IMU + L-Band

**x = Interface:**

0 = RS422/485  
1 = USB  
2 = RS232  
3 = USB+BT+Wifi  
4 = CMOS

## Super Small & Light Series

Part Number Structure : 33-SSLaaaXF-x

aaa = Model Number      x = Configuration

**aaa = Model Number**

**x = Configuration**

1 = Through Hole  
2 = Mounting Ring  
3 = Adhesive Tape



## VP6000 Family of Products

Part Number Structure : 33-6**abbcd**-**ee**-**gg**

**a** = Covered Frequencies    **bb** = LNA Gain    **c** = Base  
**d** = Options    **ee** = Connector    **gg** = Radome

<p><b>a = Covered Frequencies:</b></p> <p>0 = All GNSS Frequencies + L-Band                  1 = All GNSS Frequencies                  3 = L1/L2/L5, G1/G2/G3, B1/B2, E1/E5a+b</p> <p><b>bb = LNA Gain:</b></p> <p>35 = 35dB                  50 = 50dB</p>	<p><b>c = Base:</b></p> <p>0 = Standard Base</p> <p><b>d = Options</b></p> <p>0 = No Options</p> <p><b>ee = Connector:</b></p> <p>01 = TNC Female                  14 = N-Type Female**</p>	<p><b>gg = Radome:</b></p> <p>01 = White Conical                  11 = White Flat Top</p>
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**EXAMPLE: 33-605000-01-11** is an antenna which covers all GNSS frequencies + L-Band, provides 50 dB of gain, has a standard base, with a TNC female connector and a white flat top radome.

\*\*Premium applies

## VC6000 Family of Products

Part Number Structure : 33-VC6**xyy**-14 \*\*

**x** = Covered Frequencies    **yy** = LNA Gain

\*\* Standard ChokeRing is Grey in color

<p><b>x = Covered Frequencies:</b></p> <p>0 = All GNSS Frequencies + L-Band                  Correction Services                  1 = All GNSS Frequencies</p>	<p><b>yy = LNA Gain:</b></p> <p>35 = 35dB                  50 = 50dB</p>	<p><b>Connector:</b></p> <p>14 = N-Type Female</p>
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\*\* Part# for a Grey ChokeRing is 33-VC6**xyy**-14-G

**SCIGN Radome Available**

Short SCIGN Radome = 24-0053-0

Tall SCIGN Radome = 24-0053-1

## Housed Helical Family of Products

Model:	Part Numbers:	
HC600	33-HC600 (Passive)	
HC610	33-HC610-28 (28dB LNA)	
HC771	33-HC771-28 (28dB LNA)	
HC843	33-HC843-25 (25dB LNA)	
HC871	33-HC871-28 (28dB LNA)	
HC860	33-HC860-28 (28dB LNA)	33-HC860-35 (35dB LNA)
HC872	33-HC872-28 (28dB LNA)	33-HC872-35 (35dB LNA)
HC882	33-HC882-28 (28dB LNA)	33-HC882-35 (35dB LNA)
HC976	33-HC976-28 (28dB LNA)	33-HC976-35 (35dB LNA)
HC977	33-HC977-28 (28dB LNA)	33-HC977-35 (35dB LNA)
HC977XF	33-HC977XF-28 (28dB LNA)	33-HC977XF-35 (35dB LNA)
HC885SXF	33-HC885SXF-28 (28dB LNA)	33-HC885SXF-35 (35dB LNA)

~All Housed Helicals include an integrated SMA Male Connector~

## Embedded Helical Family of Products

Model:	Part Numbers:
HC600E <sup>1</sup>	33-HC600E (Passive)
HC610E <sup>1</sup>	33-HC610E-28 (28dB LNA)
HC771E <sup>1</sup>	33-HC771E-28 (28dB LNA)
HC843E <sup>2</sup>	33-HC843E-25 (25dB LNA)
HC871E <sup>1</sup>	33-HC871E-28 (28dB LNA)
HC872E <sup>2</sup>	33-HC872E-28 (28dB LNA)   33-HC872E-35 (35dB LNA)
HC882E <sup>2</sup>	33-HC882E-28 (28dB LNA)   33-HC882E-35 (35dB LNA)
HC976E <sup>2</sup>	33-HC976E-28 (28dB LNA)   33-HC976E-35 (35dB LNA)
HC977E <sup>2</sup>	33-HC977E-28 (28dB LNA)   33-HC977E-35 (35dB LNA)

~All Embedded Helicals include an integrated MCX Straight Female Connector~

Mounting Ring Available: <sup>1</sup> 20mm Ring – Part# 23-0219-0 | <sup>2</sup> 30mm Ring – Part# 23-0220-0

## TW7000 Family of Products

Part Number Structure : 33-7aaa-xx-yyyy

7aaa = Model      xx = Connector      yyyy = Cable Length in mm (if applicable)

### Valid Connectors (xx)

#### Without Cable:

07 = SMA Female (jack) bulkhead

#### With Cable:

00 = SMA Straight Male (plug)

02 = MCX Straight Male (plug)

03 = MMCX Straight Male (plug)

04 = SMB Straight Male (plug)

05 = MCX Right Angle Male (plug)

06 = MMCX Right Angle male (plug) \*\*

10 = SMA Right Angle\*\*

11 = Reverse Polarity SMA\*\*

12 = Waterproof SMA\*\*

13 = SSMA\*\*

15 = TNC male (plug)

16 = N-Type Male\*\*

17 = BNC Male\*\*

18 = FME\*\*

19 = MMCX Female

20 = SMA Female

21 = SMA Right Angle Female\*\*

22 = R/A QMA\*\*

23 = SMP Straight Female (Jack)

24 = SMC Male

25 = SMC Straight Female

26 = SMB Straight Female

27 = MCX Straight Female

29 = R/A SSMCX Plug\*\*

30 = SMB with Overmold\*\*

31 = SMC R/A Female\*\*

35 = MMBX\*\*

37 = R/A Male SMB\*\*

38 = TNC Female

39 = TNC Right Angle Male\*\*

40 = SMP R/A Female\*\*

**NOTE:** To order the TW7000 antennas with No Magnet, add “NM” after the Product (eg. 33-7970NM-07). To add Adhesive Tape to the bottom of the TW7000, add “AT” after the Product (eg. 33-7970AT-07).

If you would like both, No Magnet and Adhesive Tape, add “NMAT” after the Product (eg. 33-7970NMAT-07). To order the TW7000 antennas with rubber gasket add RG after the Product (eg. 33-7970RG-07). Please note that RG is incompatible with AT.

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm

**\*\* Premiums apply. Please check with your Distributor.**

## TW8000 Family of Products

Part Number Structure : 33-8aaa-xx-yyyy

8aaa = Model

xx = Connector

yyyy = Cable Length in mm

### Valid Connectors (xx)

#### Cable Required:

00 = SMA Straight Male (plug)	15 = TNC male (plug)	25 = SMC Straight Female
02 = MCX Straight Male (plug)	16 = N-Type Male**	26 = SMB Straight Female
03 = MMCX Straight Male (plug)	17 = BNC Male**	27 = MCX Straight Female
04 = SMB Straight Male (plug)	18 = FME**	29 = R/A SSMCX Plug**
05 = MCX Right Angle Male (plug)	19 = MMCX Female	30 = SMB with Overmold**
06 = MMCX Right Angle male (plug) **	20 = SMA Female	35 = MMBX**
10 = SMA Right Angle**	21 = SMA Right Angle Female**	37 = R/A Male SMB**
11 = Reverse Polarity SMA**	22 = R/A QMA**	38 = TNC Female
12 = Waterproof SMA**	23 = SMP Straight Female (Jack)	39 = TNC Right Angle Male**
13 = SSMA**	24 = SMC Male	40 = SMP R/A Female**

**NOTE:** To order the TW8000 antennas with No Magnet, add “NM” after the Product (eg. 33-8829NM-00-3000). To add Adhesive Tape to the bottom of the TW8000, add “AT” after the Product (eg. 33-8829AT-00-3000).

If you want both, No Magnet and Adhesive Tape, add “NMAT” after the Product (eg. 33-8829NMAT-00-3000).

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm

\*\* Premiums apply. Please check with your Distributor.

## TWA (AccuAuto™) Family of Products

Part Number Structure : 33-AaaaL-xx-yyyy

aaa = Model

L = L-Band corrections required (optional)

xx = Connector

yyyy = Cable length in mm

### Valid Connectors (xx)

#### Cable Required:

00 = SMA Straight Male (plug)	15 = TNC male (plug)	26 = SMB Straight Female
02 = MCX Straight Male (plug)	16 = N-Type Male**	27 = MCX Straight Female
03 = MMCX Straight Male (plug)	17 = BNC Male**	29 = R/A SSMCX Plug**
04 = SMB Straight Male (plug)	18 = FME**	30 = SMB with Overmold**
05 = MCX Right Angle Male (plug)	19 = MMCX Female	31 = SMC R/A Female**
06 = MMCX Right Angle male (plug) **	20 = SMA Female	35 = MMBX**
10 = SMA Right Angle**	22 = R/A QMA**	37 = R/A Male SMB**
11 = Reverse Polarity SMA**	23 = SMP Straight Female (Jack)	38 = TNC Female
12 = Waterproof SMA**	24 = SMC Male	40 = SMP R/A Female**
13 = SSMA**	25 = SMC Straight Female	

**Cable Length Tolerances:** <1m : ±3.0mm, 1m-4.9m: ±30mm, >5m: ±50mm

**Maximum Cable Lengths:** 5000mm

**\*\* Premiums apply. Please check with your Distributor.**

## VeroStar Pole Mount Family of Products

Part Number Structure : 33-VSP6x37L-zz

x = GNSS Band    L = L-Band corrections    zz = Mount

<b>x = GNSS Band:</b>	<b>zz = Mount:</b>	<b>LNA Gain:</b> 37dB
0 = Full Spectrum	01 = 1" x 14tpi	<b>Connector:</b> TNC Female
3 = Triple Band	58 = 5/8" x 11tpi (premium applies)	<b>L:</b> L-Band corrections

## VeroStar Surface Mount Family of Products

Part Number Structure : 33-VSS6x37L

x = GNSS Band

<b>x = GNSS Band:</b>	<b>Mount:</b> 4 screws	<b>LNA Gain:</b> 37dB
0 = Full Spectrum		<b>Connector:</b> TNC Female
3 = Triple Band		<b>L:</b> L-Band corrections

## VeroStar Marine Family of Products

Part Number Structure : 33-VSP6x37L-MAR-zz

x = GNSS Band    zz = Mount

<b>x = GNSS Band:</b>	<b>zz = Mount:</b>	<b>LNA Gain:</b> 37dB
0 = Full Spectrum	01 = 1" x 14tpi	<b>Connector:</b> TNC Female
3 = Triple Band	58 = 5/8" x 11tpi (premium applies)	<b>L:</b> L-Band corrections

## VeroStar Embedded-Standard Family of Products

Part Number Structure : 33-VSE6x28L  
 x = GNSS Band      L = L-Band corrections

<b>x = GNSS Band:</b> 0 = Full Spectrum 3 = Triple Band	<b>Mount:</b> 4 screws	<b>LNA Gain:</b> 28dB  <b>Connector:</b> MCX Straight Female  <b>L:</b> L-Band corrections
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Contact Calian GNSS before ordering

## VeroStar Embedded-Mini Family of Products

Part Number Structure : 33-VSM6x28L-ppp  
 x = GNSS Band      L = L-Band corrections      p = PCB Diameter

<b>x = GNSS Band:</b> 0 = Full Spectrum 3 = Triple Band  <b>p = PCB Diameter:</b> 090 = 090mm PCB 106 = 106mm PCB	<b>Mount:</b> 8 screws	<b>LNA Gain:</b> 28dB  <b>Connector:</b> MCX Straight Female  <b>L:</b> L-Band corrections
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Contact Calian GNSS before ordering



## AJ Series Antennas

Part Number Structure : 33-AJ977XF-xx

x = GNSS Band

### Valid Connectors (xx)

- 01 = TNC female connector
- 14 = N-type female connector

## Cable Assembly

Part Number Structure : 27-xx-zzzz-yyyy

x = Connector type (up to 2)      zzzz = Cable length in mm

yyyy = Cable type (eg RG174, LMR100, RG58, RG316)

### Valid Connectors (xx)

- |                                      |                                 |                           |
|--------------------------------------|---------------------------------|---------------------------|
| 00 = SMA Straight Male (plug)        | 15 = TNC male (plug)            | 25 = SMC Straight Female  |
| 02 = MCX Straight Male (plug)        | 16 = N-Type Male**              | 26 = SMB Straight Female  |
| 03 = MMCX Straight Male (plug)       | 17 = BNC Male**                 | 27 = MCX Straight Female  |
| 04 = SMB Straight Male (plug)        | 18 = FME**                      | 29 = R/A SSMCX Plug**     |
| 05 = MCX Right Angle Male (plug)     | 19 = MMCX Female                | 30 = SMB with Overmold**  |
| 06 = MMCX Right Angle male (plug) ** | 20 = SMA Female                 | 35 = MMBX**               |
| 10 = SMA Right Angle**               | 21 = SMA Right Angle Female     | 37 = R/A Male SMB**       |
| 11 = Reverse Polarity SMA**          | 22 = R/A QMA**                  | 38 = TNC Female           |
| 12 = Waterproof SMA**                | 23 = SMP Straight Female (Jack) | 39 = TNC Right Angle Male |
| 13 = SSMA**                          | 24 = SMC Male                   | 40 = SMP R/A Female**     |

\*\* Premiums apply. Please check with your Distributor.

## Accessories (TW3000)

23-0067-0	TW3000 Series - Ground Plane - Aluminum
23-0040-0	TW3000 Series - L-Bracket - Aluminum
23-0040-1	TW3000 Series - L-Bracket - Stainless Steel
23-0040-2	TW3000 Series - L-Bracket - Aluminum Anti-Jamming
23-0092-0	TW3000 Series - Mast Mount
23-0065-0	TW3000 Series - Pipe Mount Adapter - Screw Compression
23-0110-0	TW3000 Series - Pipe Mount Adapter - Threaded

## In-Line Amplifiers

- 32-0120-xx - GPS L1, 25dB
- 32-0125-xx - 1.2 to 1.8 Ghz, 27dB
- 32-0125B-xx - 1 to 2 Ghz, 27dB
- 32-0127-xx - Low Current/Low Voltage 1559 MHz to 1610 MHz, 25 dB
- 32-0141-xx - 1.15 to 1.75 Ghz, 40dB, mid power

### xx = connector type

- 00 - SMA female on input (antenna connection) / SMA female on output (receiver connection)
- 01 - TNC female on input (antenna connection) / TNC female on output (receiver connection)
- 02 - SMA female on input (antenna connection) / TNC female on output (receiver connection)
- 03 - TNC female on input (antenna connection) / SMA female on output (receiver connection)
- 14 - N-type female connectors

\*premiums apply

## Bias Tees – Signal Splitters

- 32-0150-xx - 1 to 2 signal splitter with DC pass-through (port 2)
- 32-0151-xx - 1 to 2 signal splitter with DC blocking
- 32-0154-xx - Bias Tee, 3.3 VDC out
- 32-0155-xx - Bias Tee, 5 VDC out

### xx = connector type

- 00 - SMA female (jack) for internal use only
- 01 - TNC female (jack) for internal use only
- 02 - TNC female (jack), IP67 rating, for external use

\*premiums apply

### Bias Tees – Signal Splitters

**32-0162-xx** - 1 to 2 smart signal splitter (TNC or N-Type connectors only)

**32-0162A-xx** - 1 to 2 smart signal splitter (FAKRA connectors only)

**32-0163-xx** - 1 to 2 smart signal splitter with 10dB amplification(TNC or N-Type connectors only)

**32-0164-xx** - 1 to 4 smart signal splitter (TNC or N-Type connectors only)

**32-0165-xx** - 1 to 4 smart signal splitter with 10dB amplification (TNC or N-Type connectors only)

**xx = connector type**

01 - TNC female (jack) for internal use only

14 - N-type female

34 - FAKRA