Tallysman Part Number Ordering Guide

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For **the 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 = Product   ● xx = Connector   ● yyyy = Cable Length in mm

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Valid Connectors (xx) – All Embedded Patch Antennas must be cabled
– Please see Page 8 for Embedded Helicals

Cable Required :

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

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.

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For the **TW2000** Family of Products

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

● 2aaa = Product   ● 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 = R/A MMCX 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
22 = R/A QMA**
23 = SMP**
24 = SMC Male
25 = SMC Straight Female

26 = SMB Straight Female
27 = MCX Straight Female
28 = SSMCX Straight Plug**
29 = R/A SSMCX Plug**
30 = SMB with Overmold**
31 = SMC R/A Female**
35 = MMBX**
37 = R/A Male SMB**
38 = TNC 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 want both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-2410NMAT-07).

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

Maximum Included Cable Length: 5000mm

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For the **TW3000** Family of Products

Please Refer to <u>Embedded Antennas</u> for all dual & triple band embedded TW3000 configurations.

Part Number Structure :   33-3aaabb-xx-yy-zzzz

- 3aaa = Product
- xx = Connector
- zzzz = Cable Length in mm (If Applicable)
- bb = Modifier
- yy = Radome (Type and Colour)

Valid Connectors (xx)

Without Cable:

01 = TNC Female (see #38 for cabled version)   14 = N-Type Female**

With Cable:

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**	28 = SSMCX Straight Plug**
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 = R/A MMCX male (plug)	20 = SMA Female	31 = SMC R/A Female**
10 = SMA Right Angle**	22 = R/A QMA**	35 = MMBX**
11 = Reverse Polarity SMA**	23 = SMP**	37 = R/A Male SMB**
12 = Waterproof SMA**	24 = SMC Male	38 = TNC Female
13 = SSMA**	25 = SMC Straight Female	

Modifiers (bb): ST = Short Thread (ST not valid with 01 or 14 connectors)   AJ = Anti-Jamming Configuration**

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

Maximum Cable Length: 5000mm

** Premiums apply. Please check with your Distributor.

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 TW3142, TW3442, TW3742, and TW3752 only)
Anti Jamming Part# 33-aaaaAJ-xx-y-zzzz (Cable Optional)

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For the **TW4000** Family of Products

Part Number Structure :

33-4aaa-xx-yyyy

- 4aaa = Product
- 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**	28 = SSMCX Straight Plug**
04 = SMB Straight Male (plug)	18 = FME**	27 = MCX Straight Female
05 = MCX Right Angle Male (plug)	19 = MMCX Female	28 = SSMCX Straight Plug**
06 = R/A MMCX male (plug)	20 = SMA Female	29 = R/A SSMCX Plug**
10 = SMA Right Angle**	22 = R/A QMA**	30 = SMB with Overmold**
11 = Reverse Polarity SMA**	23 = SMP**	35 = MMBX**
12 = Waterproof SMA**	24 = SMC Male	37 = R/A Male SMB**
13 = SSMA**	25 = SMC Straight Female	38 = TNC 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 Length: 5000mm

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

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For the **TW5340 / TW5341/TW5343**

Part Number Structure :

33-534w-x-yy-zz

- 534w = Product
- x = Voltage and Interface
- yy = Radome (Type and Colour)
- zz = Cable Length

w = Type:
0 = Standard
1 = Non-Magnetic
3 = Two RS422 Ports

x = Voltage and Interface:
1 = 5V, RS232
2 = 5V, CMOS
3 = 3.3V, CMOS
5 = 3.3V, RS232
6 = 9-36V, RS232
8 = 9-36V, RS422 (only option for TW5343)

Radome (yy):
00 = Dark grey Conical
01 = White Conical
10 = Dark grey low profile
11 = White low profile

Cable Length (zz):
05 = 5m standard
15 = 15m*[2]
25 = 25m*[2]
5D = 5m Terminating in IP67 DIN connector*

* Premium applies
[2] 15m & 25m cable is not available with CMOS interface

For the **TW5342 / TW5242 /TW5362 / TW5262**

Part Number Structure:

33-5wwww-x-10-05-PC0

- w= 5342 / 5242 = Product
- x = 6 = 12-36v, RS232
- 10 = Dark Grey Low Profile Radome
- 05 = 5m cable

- w = 5362 / 5262 = Product
- x = 7 = 5-36v, RS232
- 10 = Dark Grey Low Profile Radome
- 05 = 5m cable

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For the **VP6000** Family of Products

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

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

a = Covered Frequencies:
0 = All GNSS Frequencies + L-Band
1 = All GNSS Frequencies
2 = L1/L2, G1/G2, B1/B2, E1 + L-Band
3 = L1/L2/L5, G1/G2/G3, B1/B2, E1/E5a+b

bb = LNA Gain:
35 = 35dB
50 = 50dB

c = Base:
0 = Standard Base

d = Options:
0 = No Options

ee = Connector:
01 = TNC Female
14 = N-Type Female**

gg = Radome:
01 = White Conical
11 = White Flat Top

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.

** Premiums apply. Please check with your Distributor.

For the **VC6000** Family of Products

Part Number Structure : 33-VC6xyy-14 **

- ● x = Covered Frequencies
- ● yy = LNA Gain

** Standard ChokeRing is Red in color, see below for alternate color

x = Covered Frequencies:
0 = All GNSS Frequencies + L-Band Correction Services
1 = All GNSS Frequencies

yy = LNA Gain:
35 = 35dB
50 = 50dB

Connector:
14 = N-Type Female

** Part# for a Grey ChokeRing is 33-VC6xyy-14-G

SCIGN Radome Available

Short SCIGN Radome = 24-0053-0   Tall SCIGN Radome = 24-0053-1

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For the <u>Housed</u> **Helical** Family of Products

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)

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)

~All Housed Helicals include an integrated SMA Male Connector~

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For the <u>Embedded</u> **Helical** Family of Products

Model:	Part Numbers:		
HC600E [1]	33-HC600E (Passive)		
HC610E [1]	33-HC610E-28 (28dB LNA)		
HC771E [1]	33-HC771E-28 (28dB LNA)		
HC843E [2]	33-HC843E-25 (25dB LNA)		
HC871E [1]	33-HC871E-28 (28dB LNA)		
HC872E [2]	33-HC872E-28 (28dB LNA)	|	33-HC872E-35 (35dB LNA)
HC882E [2]	33-HC882E-28 (28dB LNA)	|	33-HC882E-35 (35dB LNA)
HC976E [2]	33-HC976E-28 (28dB LNA)	|	33-HC976E-35 (35dB LNA)
HC977E [2]	33-HC977E-28 (28dB LNA)	|	33-HC977E-35 (35dB LNA)

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

Mounting Ring Available: [1] **20mm Ring – Part# 23-0219-0**   \| [2] **30mm Ring – Part# 23-0220-0**

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For the **TW7000** Family of Products

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

● 7aaa = Product   ● 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 = R/A MMCX 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
22 = R/A QMA**
23 = SMP**
24 = SMC Male
25 = SMC Straight Female

26 = SMB Straight Female
27 = MCX Straight Female
28 = SSMCX Straight Plug**
29 = R/A SSMCX Plug**
30 = SMB with Overmold**
31 = SMC R/A Female**
35 = MMBX**
37 = R/A Male SMB**
38 = TNC 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 want both, No Magnet and Adhesive Tape, add "NMAT" after the Product (eg. 33-7970NMAT-07).

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

Maximum Cable Length Included: 5000mm

** Premiums apply. Please check with your Distributor.

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For the **TW8000** Family of Products

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

● 8aaa = Product   ● xx = Connector   ● yyyy = Cable Length in mm

Valid Connectors

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**	28 = SSMCX Straight Plug**
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 = R/A MMCX 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**	38 = TNC Female
12 = Waterproof SMA**	24 = SMC Male	
13 = SSMA**	25 = SMC Straight 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 Length: 5000mm

** Premiums apply. Please check with your Distributor.

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For the **TWA (AccuAuto™)** Family of Products

Part Number Structure :   33-AaaaL-xx-yyyy

- aaa = Product
- xx = Connector
- L = L-band corrections required (Optional)
- yyyy = Cable Length in mm

Valid Connectors (xx)

Cabled Only:

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 = R/A MMCX 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
22 = R/A QMA**
23 = SMP**
24 = SMC Male
25 = SMC Straight Female

26 = SMB Straight Female
27 = MCX Straight Female
28 = SSMCX Straight Plug**
29 = R/A SSMCX Plug**
30 = SMB with Overmold**
31 = SMC R/A Female**
35 = MMBX**
37 = R/A Male SMB**
38 = TNC Female

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

Maximum Cable Length: 5000mm

** Premiums apply. Please check with your Distributor.

For the **VeroStar** <u>Pole Mount</u> Family of Products

Part Number Structure :   33-VSP6x37L-zz

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

x = GNSS Band:	**zz = Mount:**	**LNA Gain:** 37dB
0 = Full Spectrum	01 = 1" x 14tpi	**Connector:** TNC Female
3 = Triple Band	58 = 5/8" x 11tpi (Premium Applies)	**L:** L-band corrections

For the **VeroStar** <u>Surface Mount</u> Family of Products

Part Number Structure :   33-VSS6x37L

● x = GNSS Band

x = GNSS Band:	**Mount:** 4 screws	**LNA Gain:** 37dB
0 = Full Spectrum		**Connector:** TNC Female
3 = Triple Band		**L:** L-band corrections

For the **VeroStar** <u>Marine</u> Family of Products

Part Number Structure :   33-VSS6x37L-MAR-zz

● x = GNSS Band

x = GNSS Band:	**Mount:** 4 screws	**LNA Gain:** 37dB
0 = Full Spectrum		**Connector:** TNC Female
3 = Triple Band		**L:** L-band corrections

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For the VeroStar Embedded-Standard Family of Products

Part Number Structure :   33-VSE6028L

Connector: MCX Straight Female
LNA Gain: 28dB
Mount: 8 Screws
L: L-band corrections

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For the VeroStar Embedded-Mini Family of Products

Part Number Structure :   33-VSM6028L-ppp

● p = PCB Diameter

p = PCB Diameter
090 = 090mm PCB
106 = 106mm PCB

Connector: MCX Straight Female
LNA Gain: 28dB
Mount: 8 Screws
L: L-band corrections

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Cable Assembly

Part Number Structure : 27-XX-ZZZZ-XX-YYYYY

● XX = Connector Type (up to 2) ● ZZZZ = Cable length in mm
● YYYYY = Cable Type (eg RG174, LMR100, RG58, RG316)

Valid Connectors (xx)

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	28 = SSMCX Straight Plug
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 = R/A MMCX 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	38 = TNC Female
12 = Waterproof SMA	24 = SMC Male	
13 = SSMA	25 = SMC Straight Female	

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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
23-0110-1	TW3000 Series – Pipe Mount Adapter – Threaded

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