

# Teleque

## TDP101/70/IP67 Y

Directional Active Antenna in  
weatherproof box

The TDP101/70/IP67 is a directional antenna with a bandwidth limited active gain stage powered from the receiver. It is enclosed in a robust IP67 rated box making it ideal for any platform environment.

To ensure the IP67 rating of the enclosure the antenna cable enters the TDP101/70/IP67 through a sealed gland, it is then connected to the antenna with a TNC connection. A green LED shows the antenna is receiving power.

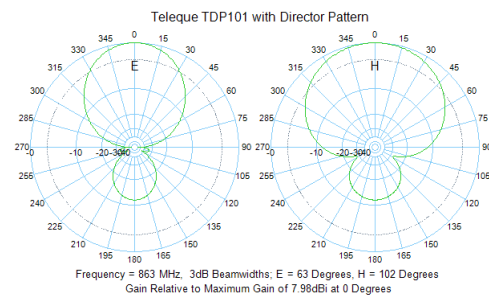
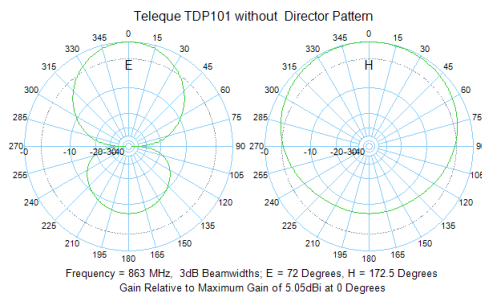
Teleque specify two different types of coax cable for fixed installations. RG58 and RG213U.

RG58 and equivalents provide a low cost, easy to manage and terminate solution when cabling lengths do not exceed 30 metres maximum.

RG213U provides better attenuation characteristics at the expense of cost and cable diameter, ideal for cable runs between 30 and 75 metres.

For optimum signal coverage when using the TDP101/70/IP67, they should be:

- a. Positioned at least 3 m apart.
- b. Both Antennas should be positioned to provide direct line of sight to the transmitter, clear of any major metallic obstructions.
- c. The printed circuit board within the TDP101/70/IP67 has an RF director attached by two M3 nylon screws, the presence of the director alters the reception pattern of the antenna allowing the antenna to be configured in one of two ways:-
  - i) Director installed - Ideal for mounting pointing down parallel to the tracks
  - ii) Director removed - Ideal for mounting perpendicular to the tracks



### Specification

#### RF

Gain	15dB
Connector type	TNC
DC Power source	9 V DC @60mA
Front to back gain	3dB

#### Enclosure

Material	PC
IP Rating	IP67

#### Environmental

Temperature (storage and operating)	-10 °C to +50 °C
Humidity Range (non-condensing)	0% to 93%

#### Dimensions and Weight

Dimensions	Height : 150 mm Width : 130 mm Depth : 180 mm
Weight	300 g

Designed and manufactured in the United Kingdom

#### Cable type:

RG58 C/U LSF 50Ω coax cable. (Belden MRG5801 or equivalent).  
Attenuation @ 0.5dB/m.

#### Cable Type:

RG213U 50Ω low loss coax cable.(Belden MRG2130 or equivalent).  
Attenuation @ 0.2dB/m.

#### Connector type:

Cable	-	TNC jack - TNC jack
Antenna	-	TNC jack
Bracket assembly	-	TNC socket - TNC socket
Receiver	-	TNC socket

(For applications with cabling requirements above 75 metres please consult your distributor)

#### Approvals

This equipment is designed and manufactured to conform to the following EC standards:

#### Radio Type Approval:

EN 300 422-1:v1.2.2, EN 300 422-2:v1.1  
EN 301 489-9:v1.3.1, EN 301 489-1:v 1.6.1,  
EN 50121-4:2006, ENV 50204:1996  
EN 60065:2002

#### EMC:

#### Safety:

RoHS compliant.

PADS Certified:

PA05/05898

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