# Antenna THP 06 059 D WB

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## General Specifications

| | |
|---|---|
| Diameter | 0.6m |
| Standard Colour | RAL 7035 |
| Shroud | Low profile |
| Antenna Input | Interface for IEC waveguide R 70 |
| Polarization | Dual |

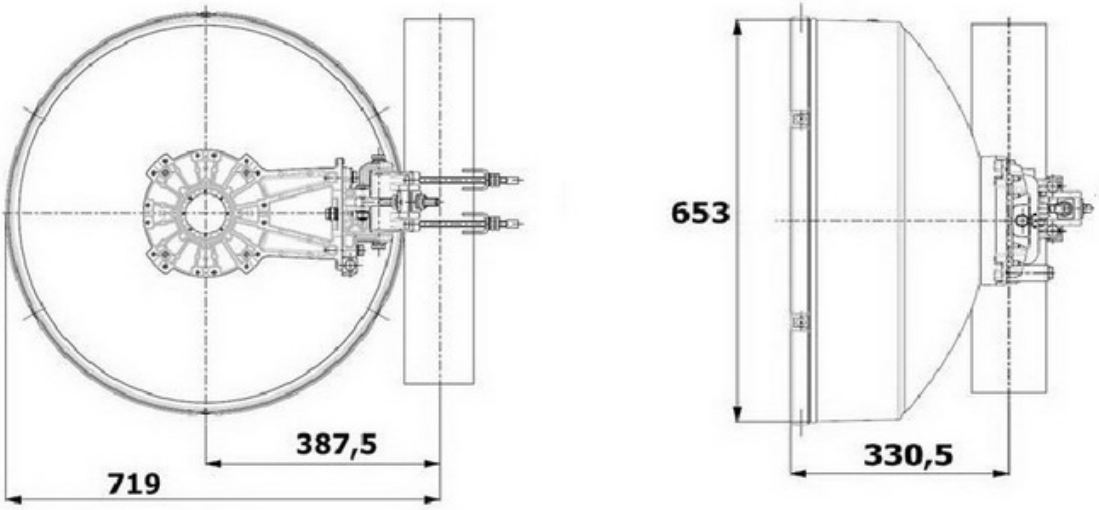
## Mechanical Characteristics

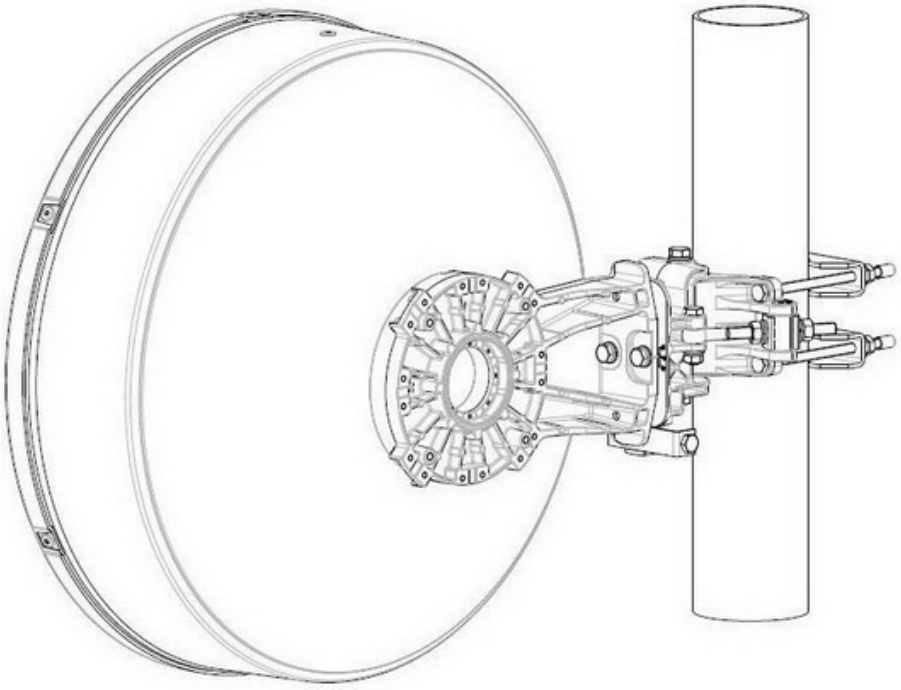
| | |
|---|---|
| Pole | 50-115 mm |
| Elevation-fine adjustment | +/- 15 deg |
| Azimuth-fine adjustment | +/- 20 deg |
| Side struts, included | 0 |
| Side struts, optional | 0 |
| Net weight | 12.5 Kg |
| Radome | Rigid plastic |
| Wind velocity Operational | 180 Km/h |
| Wind velocity Survival | 250 Km/h |
| Wind deflection | <0.3 times the -3 dB beamwidth |
| (with a wind velocity of 45 m/s) | Specified wind deflection applies for 115 mm dia mounting pipe only |

## Antenna Dimensions

(pole mount included)

| | |
|---|---|
| Height | 653.0 mm |
| Width | 719.0 mm |
| Depth | 330.5 mm |



## Wind forces at wind velocity survival rating and with 25 mm (1") ice load

| | |
|---|---|
| Axial force | 1444 N |
| Side force | 715 N |
| Twisting Moment | 527 N m |

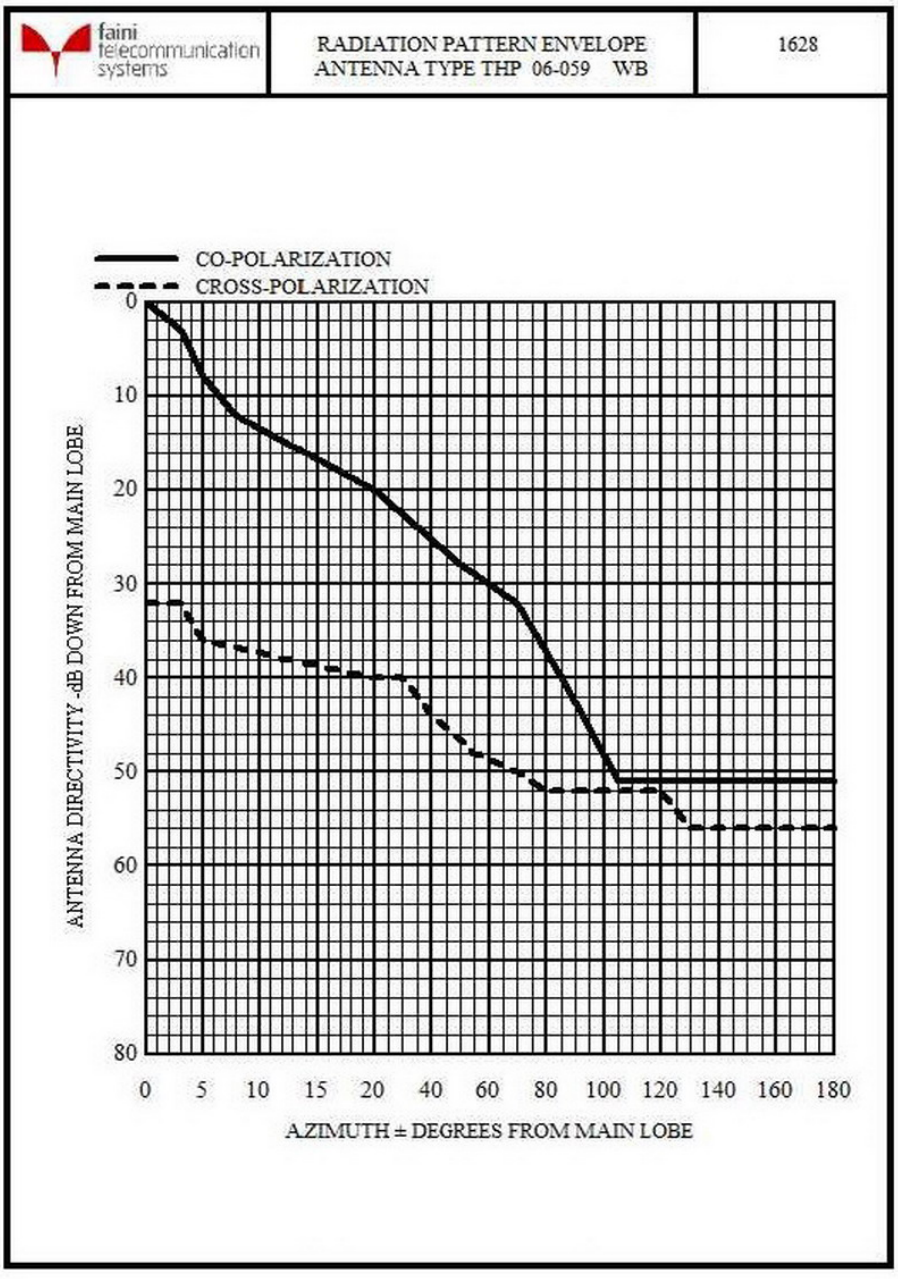
Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referred to the mounting pipe of 115 mm diameter.

## Electrical Characteristics

| | |
|---|---|
| Frequency range | 5.925 - 7.125 GHz |
| Gain, low band | 28.2 dBi |
| Gain, mid band | 28.8 dBi |
| Gain, top band | 29.6 dBi |
| Return Loss | 17.7 dB |
| VSWR | 1.3 |
| HPBW | 6.0 |
| Front to back ratio | 51.0 dB |
| Isolation | 35 dB |
| XPD | 30.0 dB |
| Electrical Compliance | Class 2 |
| | ETSI 302 217 |

## Shipping Information

| | |
|---|---|
| Gross weight | 18 kg |
| Height | 600 mm |
| Depth | 750 mm |
| Width | 750 mm |


faini telecommunication systems
RADIATION PATTERN ENVELOPE
ANTENNA TYPE THP 06-059 WB
1628
CO-POLARIZATION
CROSS-POLARIZATION
ANTENNA DIRECTIVITY -dB DOWN FROM MAIN LOBE
0
10
20
30
40
50
60
70
80
0 5 10 15 20 40 60 80 100 120 140 160 180
AZIMUTH ± DEGREES FROM MAIN LOBE