

- 2G/3G/4G/5G antenna solution covering global bands
- Designed for bracket or cabinet/enclosure installation
- Integrated double shielded coaxial cable
- IP68 rated (5m /7days)

B4BSC-6-60-[X]SPIP is an omni-directional broadband antenna range covering 617-960/1427-6000MHz which has been specially adapted for use in hostile, frequently flooded environments for applications like sewer monitoring and water metering.

The antenna is designed to be wall, mast or panel mounted either using the supplied bracket or on a device / enclosure. The exposed metal parts of the antenna body are 316 stainless steel making the antenna very resistant to corrosion.

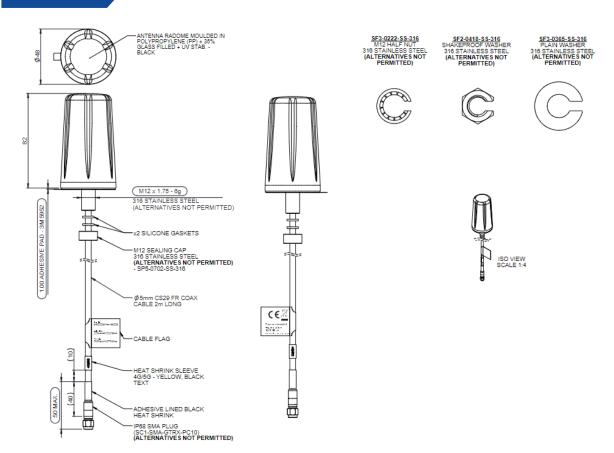
The omni-directional radiation pattern allows easy placement of the antenna in any position, without requiring directional alignment.

The B4BSC-6-60-[X]SPIP antenna is supplied with an integral ultralow loss FR CS29 coaxial cable, of various lengths, fitted a special SMA plug which forms a seal preventing water wicking up the cable into the antenna housing during submersion.

This antenna is protected to IP68 (5m / 7 days) when mounted on a bracket provided that the SMA plug is properly connected.

Technical Drawing

B4BSC-6-60-[X]SPIP Shown





B4BSC-6-60-[X]SPIP

Product Data

Part No.				
		B4BSC-6-60-2SPIP		
Electrical Data				
Frequency Range (MHz)		617-960 / 1427-6000		
Operational Band		2G / 3G / 4G / 5G		
Typical VSWR*		<3:1		
Peak Gain* (dBi)	617-960MHz	2.8		
	1427-2700MHz	3.6		
	3300-6000MHz	5.5		
Polarisation		Vertical		
Pattern		Omni-directional		
Impedance		50Ω		
Max Input Power (W)		30		
Mechanical Da	nta			
Dimensions	Height mounted	82mm (3.2")		
	Diameter	48mm (1.89")		
Operating Tem	ıp (°C)	-40° / +85°C (-40° / 185°F)		
Material		PP 35% GF, 316 Stainless Steel		
Colour		Black		
Ingress Protec	tion	IP68 (5m / 7 days)		
Mounting Data				
Fixing		Panel mount or Bracket Mount		
Panel Mounting	g Hole Diameter	19 mm (3/4")		
Bracket Screw Hole Diameter		4mm (0.16")		
Cable Data				
Туре		FR CS29		
Diameter		5mm (0.2")		
Length		2m (6.6')		
Termination		IP68 SMA Plug		

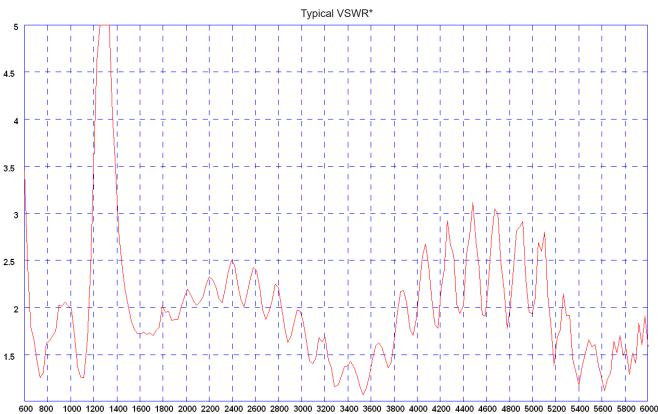
^{*} Typical VSWR and peak gain measured in free space on bracket with 0.5 m (1.6') of CS29 cable



B4BSC-6-60-[X]SPIP

Electrical Data Cell-Free Space on bracket

Measurement Conditions	4G/5G Antenna				
	Frequency Range (MHz)	LTE Bands	Peak Gain (dBi)	Efficiency (%)	
B4BSC-6-60 measured in free space on bracket with 0.5m (1.6') of CS29 cable	617-698	71, 105	2.0	75	
	699-798	12,13, 14 17,28	2.4	77	
	807- 862	5,19,20,26,27	2.4	71	
	880-960	8	2.8	64	
	1427-1518	11, 21, 74,75,76	3.6	72	
	1710-1920	2,3,4,9,25,35,39,66	2.6	71	
TOTAL PROPERTY.	1920-2170	1,23	2.6	71	
	2300-2400	30,40	3.0	70	
	2496-2690	7,38,41	3.4	72	
	3300-4200	22,42,43,48,77,78	5.5	78	
	4400-5000	79	4.9	62	

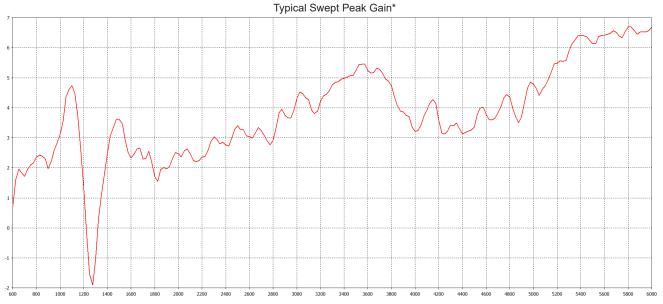


1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200 5400 5600 5800 6000 *VSWR measured in free space on bracket with 0.5m (1.6') of CS29 cable

Electrical Data Cell-Free Space on bracket

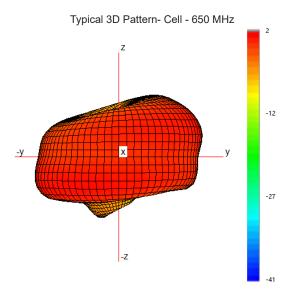


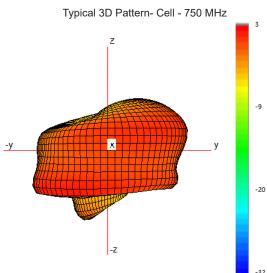
*Efficiency measured in free space on bracket with 0.5m (1.6') of CS29 cable

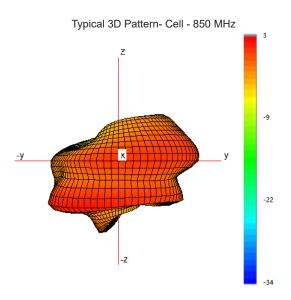


*Peak Gain measured in free space on bracket with 0.5m (1.6') of CS29 cable

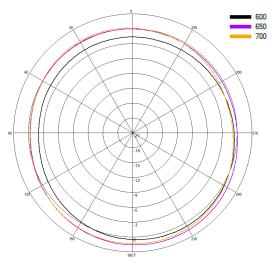
3D Pattern Data in Free Space on bracket Cell



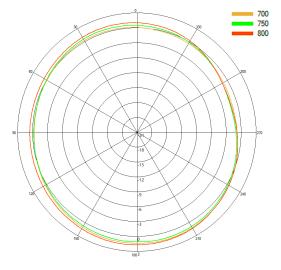




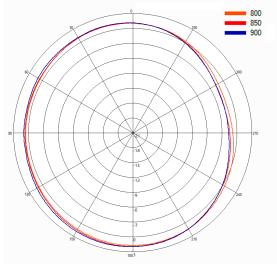
Typical H Plane- Cell - Patterns- 600-700MHz



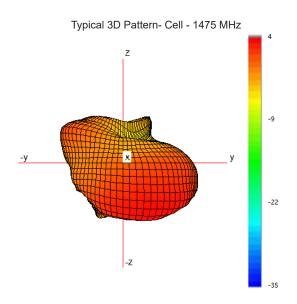
Typical H Plane- Cell - Patterns- 700-800MHz

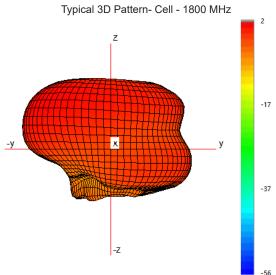


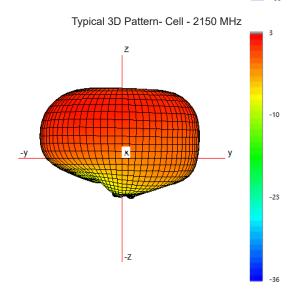
Typical H Plane- Cell - Patterns- 800-900MHz

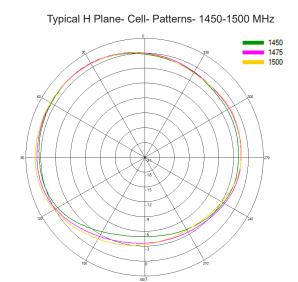


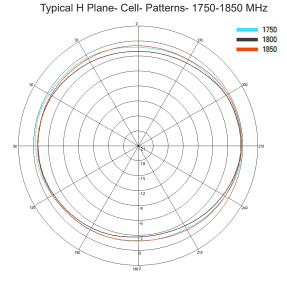
3D Pattern Data in Free Space on bracket Cell

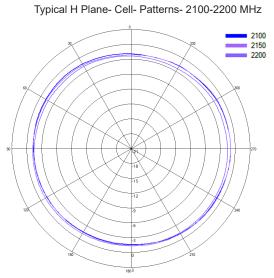






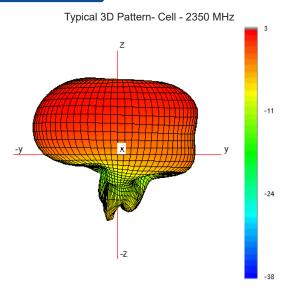


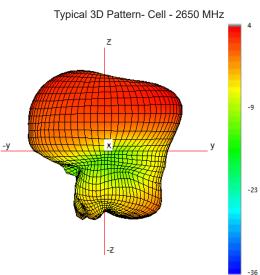


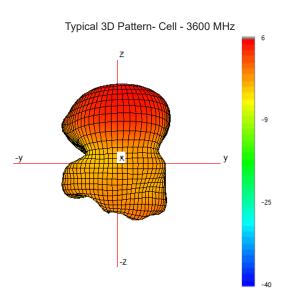


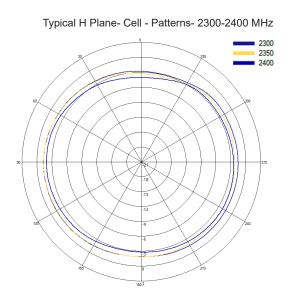
Panorama Antennas Ltd Frogmore, London, SW18 1HF, United Kingdom T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477 E: sales@panorama-antennas.com W: www.panorama-antennas.com

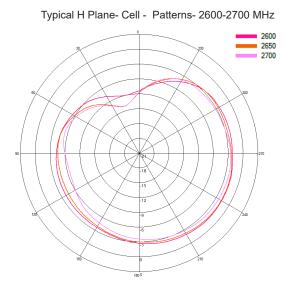
3D Pattern Data in Free Space on bracket Cell

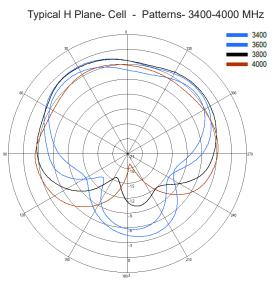












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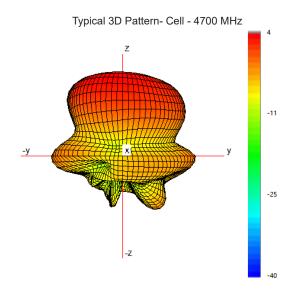
Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

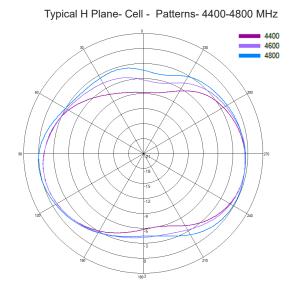
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3D Pattern Data in Free Space on bracket Cell



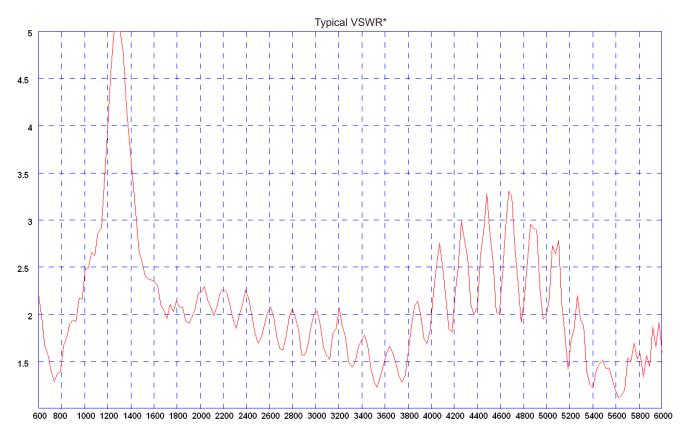




B4BSC-6-60-[X]SPIP

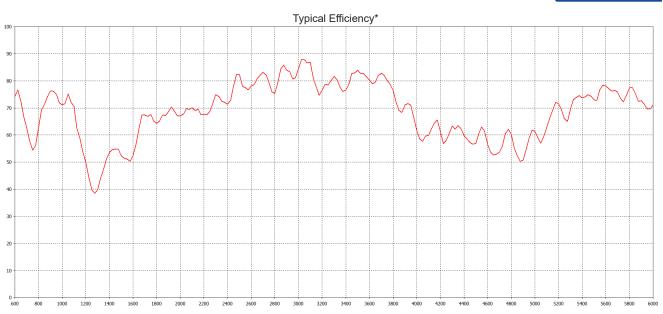
Electrical Data Cell -**Ground Plane**

Measurement Conditions	4G/5G Antenna			
	Frequency Range (MHz)	LTE Bands	Peak Gain (dBi)	Efficiency (%)
B4BSC-6-60 measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable	617-698	71, 105	3.8	71
	699-798	12,13, 14 17,28	3.1	59
ALL MARKET MARKET STATES	807- 862	5,19,20,26,27	3.5	69
AND THE RESERVE TO TH	880-960	8	3.9	75
	1427-1518	11, 21, 74,75,76	4.1	54
	1710-1920	2,3,4,9,25,35,39,66	4.7	67
	1920-2170	1,23	4.6	69
	2300-2400	30,40	4.1	73
	2496-2690	7,38,41	4.7	80
	3300-4200	22,42,43,48,77,78	6.7	74
	4400-5000	79	5.6	57



*VSWR measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

Electrical Data Cell -**Ground Plane**

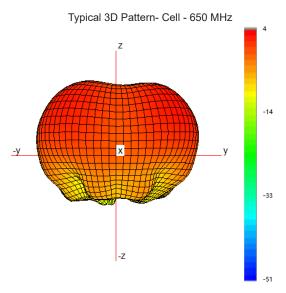


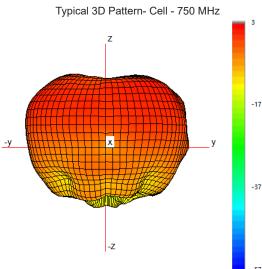
*Efficiency measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

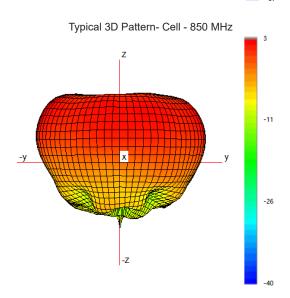


*Peak Gain measured on 600x600mm (2'x2') ground plane with 0.5m (1.6') of CS29 cable

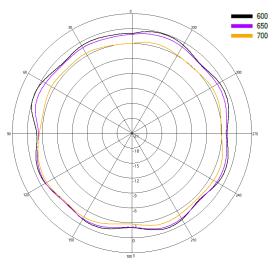
3D Pattern Data on **Ground Plane Cell**



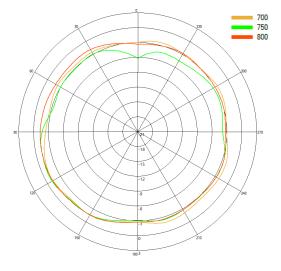




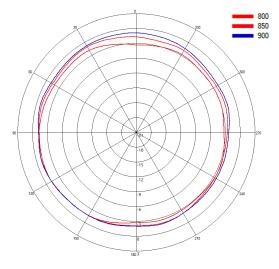
Typical H Plane- Cell - Patterns- 600-700MHz



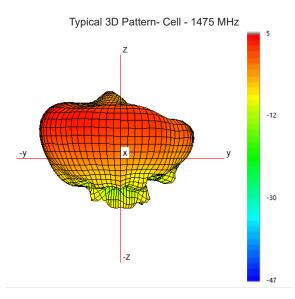
Typical H Plane- Cell - Patterns- 700-800MHz

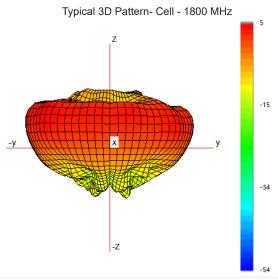


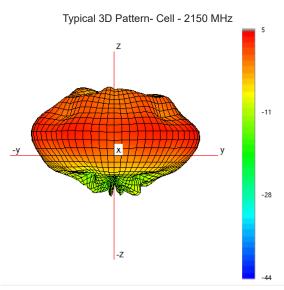
Typical H Plane- Cell - Patterns- 800-900MHz



3D Pattern Data on **Ground Plane Cell**

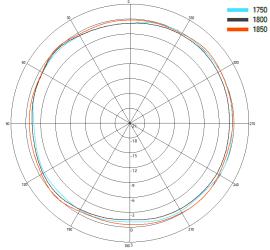




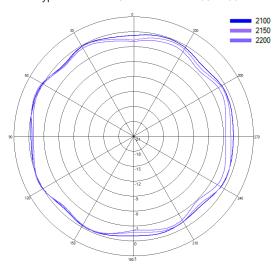


Typical H Plane- Cell- Patterns- 1450-1500 MHz 1450 1475 1500

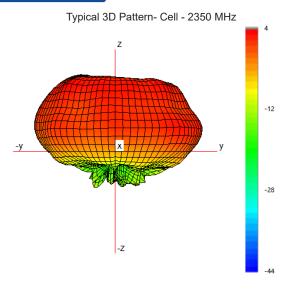
Typical H Plane- Cell- Patterns- 1750-1850 MHz

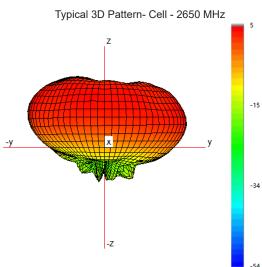


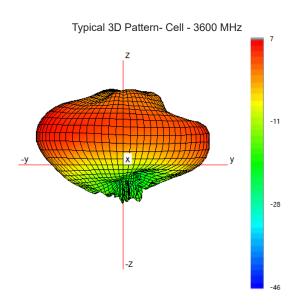
Typical H Plane- Cell- Patterns- 2100-2200 MHz



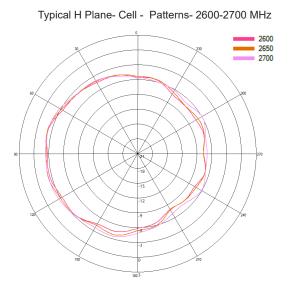
3D Pattern Data on **Ground Plane Cell**

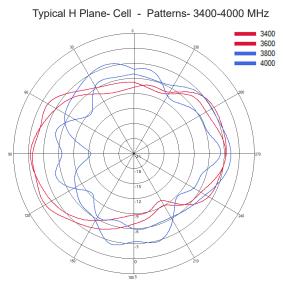






Typical H Plane- Cell - Patterns- 2300-2400 MHz 2350







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3D Pattern Data on **Ground Plane Cell**

