

1920 mm

6888370-C-K03

6888370N-C-K03 6888370G-C-K03 6888370NG-C-K03

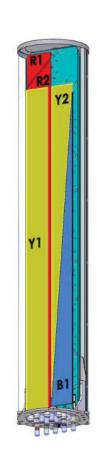
5-Band, 10-Port, 65°, XPOL, Cylindrical Sector Antenna, Variable Tilt, CylLine, 1920 mm

• Penta band, Cylindrical base-mounted sector antenna, dual polarisation, 10 connectors



- 350 mm Diameter
- Same RF characteristics as our 6888370 antenna
- MET and RET versions, 3GPP/AISG2.0
- Service area under the antenna

	Frequency Range (MHz)	698-788	880-960	1695-2180	1695-2690	2490-2690			
_	Array	■ R1	■ R2	■ B1	Y1	Y2			
OVERVIEW	Connector	1-2	3-4	5-6	7-8	9-10			
	Polarization	XPOL	XPOL	XPOL	XPOL	XPOL			
PRODUCT	Azimuth Beamwidth (avg)	65°	65°	65°	65°	65°			
础	Electrical Downtilt	2-12°	2-12°	0-10°	0-10°	0-10°			
	Dimensions	1920 x Ø350 mm							



ORDERING OPTIONS Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT ACTUATOR	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Manual Electrical Tilt (MET)		4.3-10 Female	6888370N-C-K03
Manual Electrical Till (MET)		7/16-DIN Female	6888370-C-K03
Remote Electrical Tilt (RET)	Multi-Device Control Unit	4.3-10 Female	6888370NG-C-K03
AISG v2.0 / 3GPP	(MDCU)	7/16-DIN Female	6888370G-C-K03







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ELECTRICAL SPECIFICATIONS Ultra Low Band			■ R1	
Frequency Range		MHz	698-788	
Polarizatio	on		±45°	
Gain	Min Tilt	dBi	14.8	
	Mid Tilt	dBi	14.8	
	Max Tilt	dBi	14.5	
Azimuth Beamwidth		degrees	73°	
Elevation Beamwidth		degrees	12°	
Electrical Downtilt		degrees	2°-12°	
Impedance		Ohms	50	
VSWR			< 1.5	
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBm	< -110	
Front-to-Back Ratio, Total Power, ±30°		dB	> 25	
Upper Sidelobe Suppression, 0° to 20°		dB	18 typical	
Maximum Effective Power Per Port		Watts	250 W	

ELECTRICAL SPECIFICATIONS Ultra Low Band

Inter/Intra Band Isolation

_	_		
П		R	2
	Г		

> 25

Frequency Range		MHz	880-960
Polarization			±45°
Gain	Min Tilt	dBi	16.0
	Mid Tilt	dBi	15.9
	Max Tilt	dBi	15.6
Azimuth Bea	mwidth	degrees	67°
Elevation Beamwidth		degrees	9.4°
Electrical Downtilt		degrees	2°-12°
Impedance		Ohms	50
VSWR			< 1.5
Passive Inter 3rd Order fo	modulation r 2 x 20W Carriers	dBm	< -110
Front-to-Back Ratio, Total Power, ±30°		dB	> 25
Upper Sidelobe Suppression, 0° to 20°		dB	18 typical
Maximum Effective Power Per Port		Watts	250 W
Inter/Intra Ba	and Isolation	dB	> 25



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ELECTRICAL SPECIFICATIONS Filtered Array (Y2)

B1

Frequency Range		MHz	1695-2	180		
		MHz	1800	2100		
Polarizatio	on		±45	0		
Gain	Min Tilt	dBi	17.2	17.5		
	Mid Tilt	dBi	17.2	17.4		
	Max Tilt	dBi	17.1	17.3		
Azimuth B	Beamwidth	degrees	69°	67°		
Elevation I	Beamwidth	degrees	6.0°	5.1°		
Electrical [Downtilt	degrees	0°-10°			
Impedance	e	Ohms	50			
VSWR			< 1.5			
	termodulation for 2 x 20W Carriers	dBm	< -110			
Front-to-Back Ratio, Total Power, ±30°		dB	> 25			
Upper Sidelobe Suppression, 0° to 20°		dB	18 typical			
Maximum Effective Power Per Port		Watts	200 W			
Inter/Intra	Band Isolation	dB	> 2!	5		

ELECTRICAL SPECIFICATIONS Ultra Wide Band



Frequency Range		MHz	1695-2690				
			1800	2100	2600		
Polarization	Polarization			±45°			
Gain	Min Tilt	dBi	17.5	17.7	17.9		
	Mid Tilt	dBi	17.5	17.7	17.8		
	Max Tilt	dBi	17.4	17.6	17.5		
Azimuth Bea	Azimuth Beamwidth		68°	70°	72°		
Elevation Beamwidth		degrees	6.1°	5.3°	4.2°		
Electrical Do	Electrical Downtilt		0°-10°				
Impedance		Ohms	50				
VSWR			< 1.5				
	rmodulation or 2 x 20W Carriers	dBm	< -110				
Front-to-Back Ratio, Total Power, ±30°		dB	> 25				
Upper Sidelobe Suppression, 0° to 20°		dB	18 typical				
Maximum Effective Power Per Port		Watts	200 W				
Inter/Intra Band Isolation		dB	> 25				



698-788 | 880-960 | 1695-2180 | 1695-2690 | 2490-2690 MHz

65°

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ELECTRICAL SPECIFICATIONS Filte	red Array (B1)	 Y2

Frequency Range		MHz	2490-2690	
Polarization			±45°	
	Min Tilt	dBi	17.6	
Gain	Mid Tilt	dBi	17.5	
	Max Tilt	dBi	17.2	
Azimuth Beamwidth		degrees	61°	
Elevation Beamwidth		degrees	4.1°	
Electrical Downtilt		degrees	0°-10°	
Impedance		Ohms	50	
VSWR			< 1.5	
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBm	< -110	
Front-to-Back Ratio, Total Power, ±30°		dB	> 25	
Upper Sidelobe Suppression, 0° to 20°		dB	18 typical	
Maximum Effective Power Per Port		Watts	200 W	
Inter/Intra Ba	nd Isolation	dB	> 25	

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65°



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ELECTRICAL DOWNTILT CONTROL

For multiband antennas, electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).							
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.						
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. See details below and refer to the ordering options to see which actuators are available with this particular antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override). Do not remove the transparent cap(s) from the antenna.						

RET ACTUATOR

Amphenol's **RET-READY** antennas are delivered with the RET Actuator already installed and pre-commissioned with all antenna parameters. Every RET device is factory configured and calibrated so the antenna is ready to be used once delivered to the site which means that there is no need for further installation of RET devices or for programming their configuration or for running a calibration process.

RET-READY ACTUATORS Multi-Device Control Unit (MDCU). The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. Refer to the ORDERING OPTIONS for availability with this model

Multi-Device Dual Unit (MDDU). The MDDU allows two separate RET Controllers to independently drive the RETs in antennas with factory embedded motors (for antenna sharing or two technologies). The MDDU is factory installed. Refer to the ORDERING OPTIONS for availability with this model.

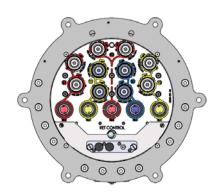
Number of RET-READY Actuators		One per antenna		
Input Voltage		+10 to +30 V		
Power Consumption Idle State		0.5 W		
	Operating	4 W typical / 10 W maximum		
Protocol		3GPP/AISG 2.0		
Tilt Change Duration		Less than 15 seconds, typical (may vary dependent on antenna type and outdoor temperature)		
Precision		±0.5°		
Tilt Change Capability		50,000 minimum		
RET Interface		1 pair of AISG Male and Female (type IEC60130-9)		
Field Replaceable Unit		Yes		

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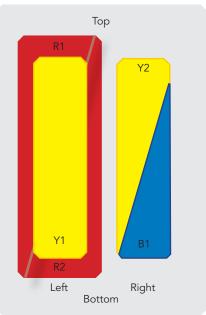
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TUG	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	698-788	1-2	4.3-10 Female or 7/16-DIN Female Long Neck
AYOUT	■ R2	880-960	3-4	4.3-10 Female or 7/16-DIN Female Long Neck
ARRAY L	■ B1	1695-2180	5-6	4.3-10 Female or 7/16-DIN Female Ultra Long Neck
	□ Y1	1695-2690	7-8	4.3-10 Female or 7/16-DIN Female Ultra Long Neck
	☐ Y2	2490-2690	9-10	4.3-10 Female or 7/16-DIN Female Long Neck



Depicts each individual sector

Diagram shown at right depicts the view from the front of the antenna.

The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

The CylLine system comes as an antenna and a service area section acting as an installation mast. The cylindrical shroud covers the whole antenna with the exception of the rear of the antenna where the aluminum structure profile is apparent. The service area, mounted under the antenna, is closed by a removable shroud, in order to give access to the connectors and to the tilt indicators for tuning. A TMA may be installed in the service area.

Please note that it is MANDATORY that the antenna be installed with the provided service area.

Lengtl	h			mm (in)	1920 (75.6)	
Diameter				mm (in)	350 (13.8)	
Net Weight			Total Weight	kg (lbs)	89 (196.2)	
			Antenna Only	kg (lbs)	52 (114.6)	
			Service Area	kg (lbs)	37 (81.6)	
Windload			Calculation	km/h (mph)	160 (99.4)	
(EN 1991-1-4 Wind Tunnel			Frontal	N (lbf)	915 (205.7)	
Operational Wind Speed				km/h (mph)	160 (99.4)	
Survival Wind Speed				km/h (mph)	200 (124.3)	
Radome Color					Gray RAL7035	
Rador	ne Mate	erial			Outdoor Plastic	
Lightning Protection					Direct Ground	
	Antenna	Shipping Dimensions (Length x Width x Depth)		mm (in)	2160 x 480 x 480 (85.0 x 18.9 x 18.9)	
		Shipping Weight		kg (lbs)	59 (130.1)	
Shipping		Shipping Volume		m³ (ft³)	0.5 (17.7)	
	Extension Packaging	Shipping Dimensions (Length x Width x Depth)		mm (in)	1500 x 480 x 480 (59.1 x 18.9 x 18.9)	
•		Shipping Weight		kg (lbs)	40 (88.2)	
		Shipping Volume		m³ (ft³)	0.345 (12.2)	



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ENVIRONMENTAL SPECIFICATIONS

Environmental		ETS 300 019
Operating Temperature	° C (° F)	-40° to +60° (-40° to +140°)
Product Environmental Compliance		Product is RoHs Compliant

PARTS SUPPLIED

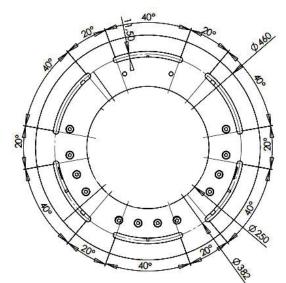
The supply list for this antenna includes: one antenna (6888370 or 6888370N); one service area of 1m length; all nuts, screws and washers required for assembly.

INSTALLATION OF CABLES

The flange at the base of the service area is the mounting base for the entire system. This flange (0 and 460 mm / thickness 10 mm) has six slots, each 40° long on a bolt circle diameter of 382 mm. These slots are used to tune the azimuth of the antenna. Mounting must be achieved with one bolt per slot (total six bolts M10, provided). The shroud of the service area is left open on 14 cm at the bottom in order to accommodate the cables.

1/2" Super-Flexible coaxial jumpers are recommended for easier installation in the service area, due to the minimal bending radius (see installation guide).

Mounting Flange Interface



Service Area (Opened Shroud)





