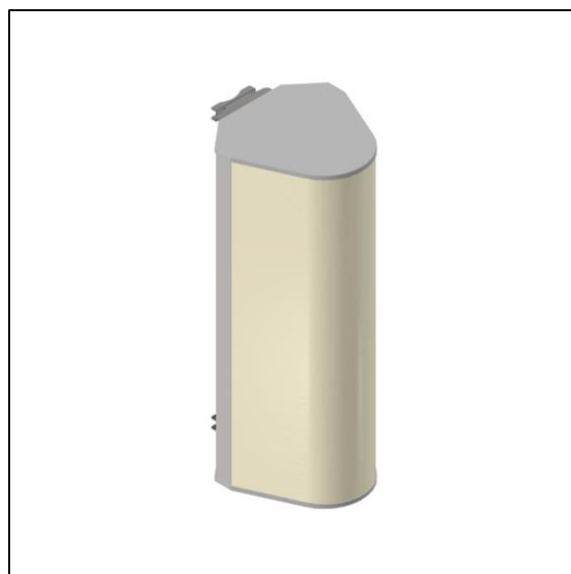


4 BEAMS | 3700-4200MHz | 4T4R

Lens Technology Enabled™ Multi-Beam Cylindrical Base-Station Lens Antenna:

- Utilizes a patented cylindrical lens design
- 4 Isolated cross-polarized beams for C-band
- 120° coverage with highest beam stability
- 4x4 MIMO capability per beam
- RET AISG 2.0, independent tilt per beam from 2° to 10°
- No beam squinting as compared to Butler matrix antennas
- Low sidelobes for all beam tilts
- Excellent Front-to-Back and CPR performance
- High-capacity solution for macro network
- Rugged mechanical design



ELECTRICAL SPECIFICATIONS, BASTA

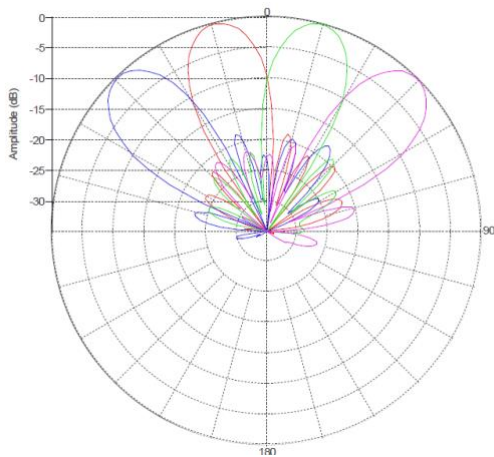
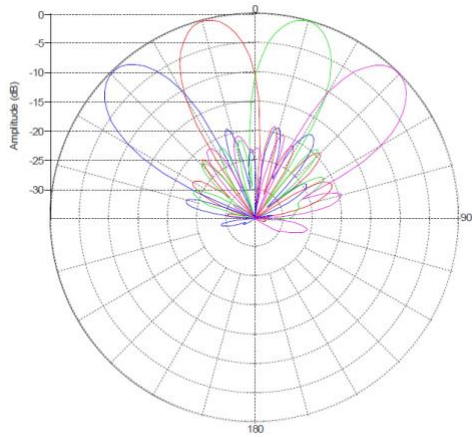
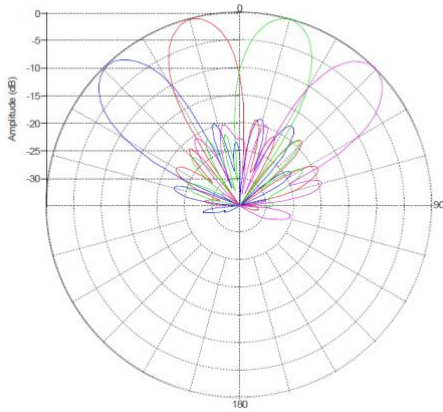
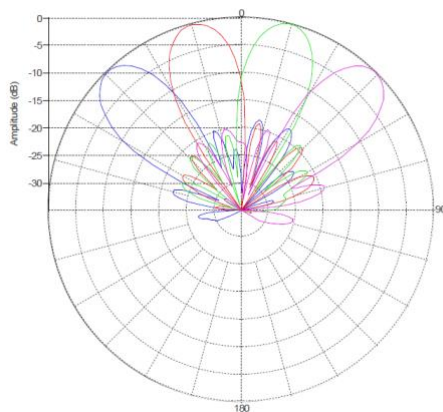
FREQUENCY, MHZ	3700	4000
GAIN, BY ALL TILTS/PORTS, DBI	22.7±0.7	22.5±0.7
VSWR	1.5:1	1.5:1
HORIZONTAL COVERAGE, DEG	120	120
HORIZONTAL BEAM CENTERS, DEG	-45±1.5; -15±1; 15±1; 45±1.5	
HORIZONTAL BEAMWIDTH, DEG	17.5±0.5	17.0±0.5
BEAM CROSSOVER, DB	10	10.5
HORIZONTAL SIDELOBE, DB	-18	-19
FRONT-TO-BACK RATIO TOTAL POWER AT 180±30°, DB	32	32
CPR AT BORESIGHT, DB	14	14
CPR AT 10DB BEAMWIDTH, DB	10	10
REMOTE ELECTRICAL BEAM TILT, DEG	2-12	
VERTICAL BEAMWIDTH, DEG	6.5±0.5	6.4±0.5
USLS, BEAMPEAK TO 20° ABOVE BEAMPEAK, DB	17	15
ISOLATION PORT TO PORT, POLARIZATION, DB	28	30
ISOLATION PORT TO PORT, BEAM, DB	28	28
PIM, 3 RD ORDER, 2X20W, DBC	-153	-153
MAX. POWER PER PORT, W	150 (at 40°C ambient temperature)	

ELECTRICAL SPECIFICATIONS

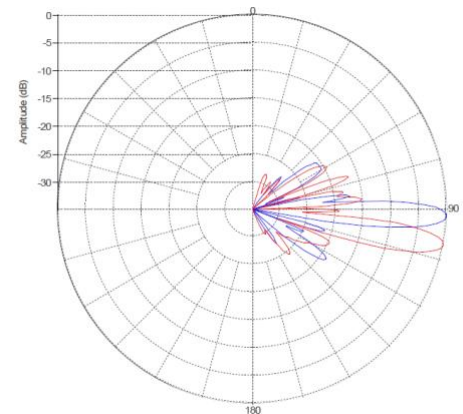
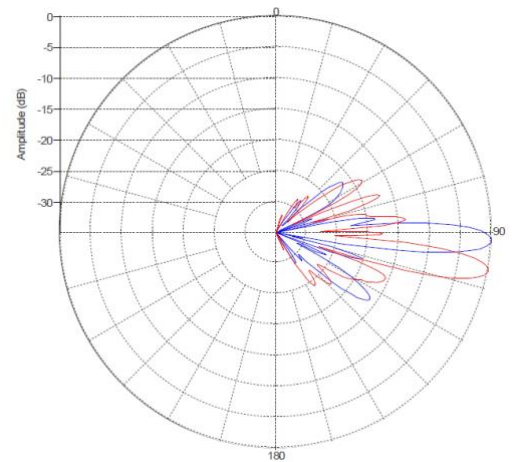
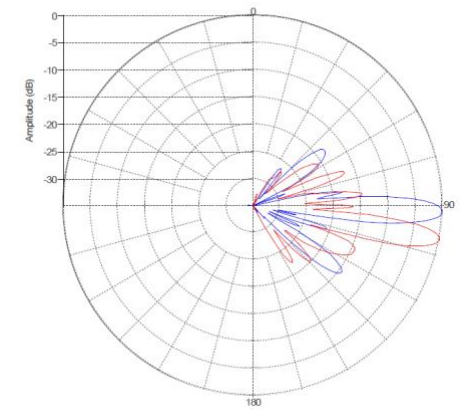
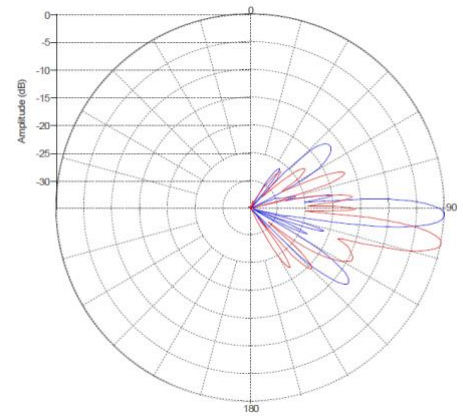
IMPEDANCE	50 Ohm
OPERATING FREQUENCY BAND	3700 - 4200MHz
POLARIZATION	$\pm 45^\circ$
NUMBER OF BEAMS	4
NUMBER OF PORTS PER BEAM	4
CONNECTOR QUANTITY AND TYPE	16 x 4.3-10 female
TOTAL POWER, MAX	1600W @40°C

PATTERN RESULTS

Horizontal Patterns

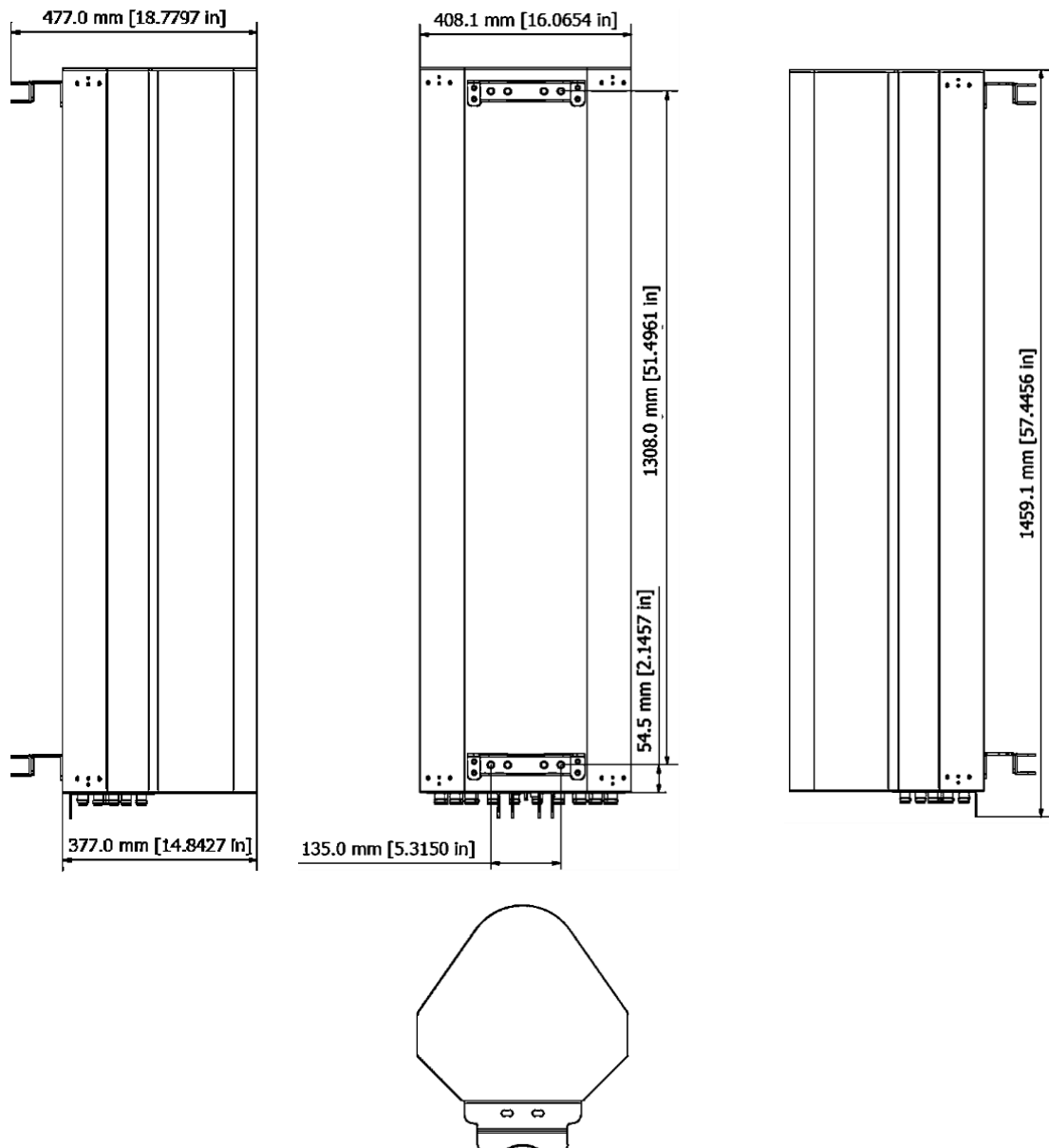
**3.7 GHz****3.8 GHz****3.9 GHz****4.0 GHz**

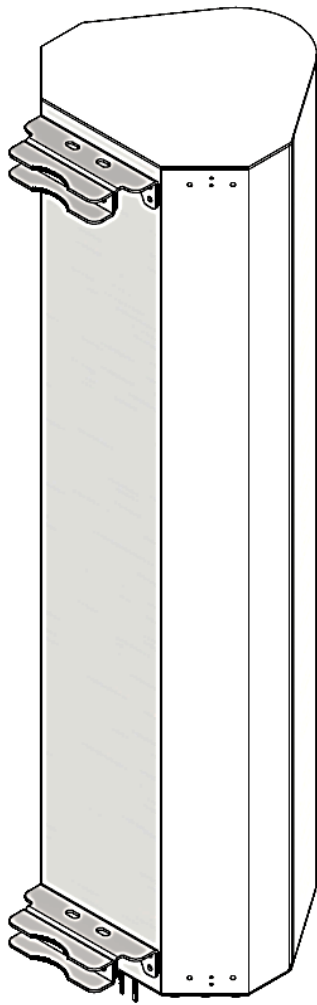
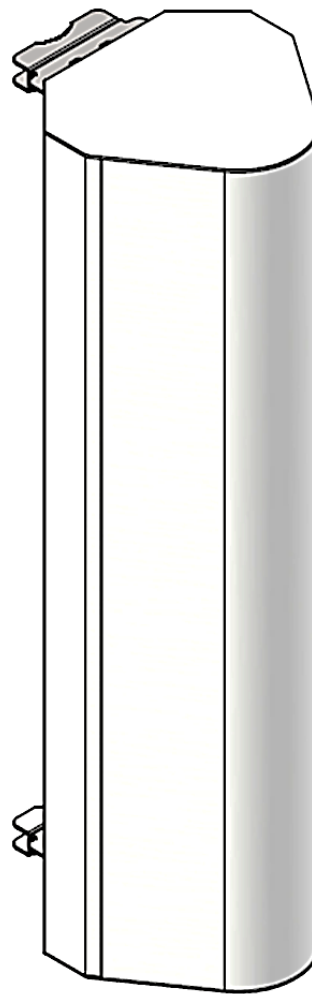
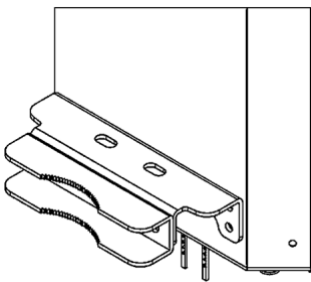
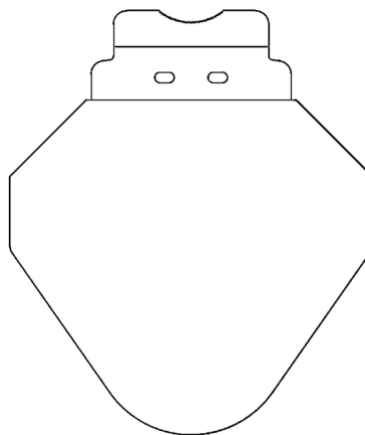
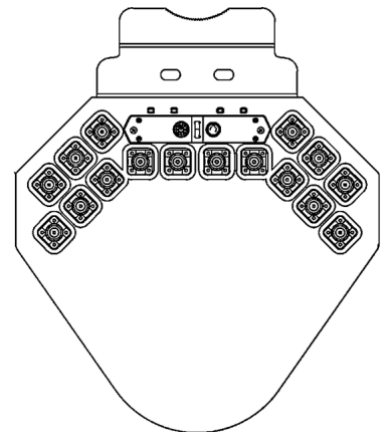
Vertical Patterns (2°, 10°)



MECHANICAL SPECIFICATIONS

ANTENNA WEIGHT (WITHOUT BRACKET)	70.5 lb.	32 kg
ANTENNA WEIGHT (WITH BRACKET)	73.98 lb.	33.58 kg
HEIGHT	57.4 in	145.7 cm
WIDTH	16 in	40.6 cm
DEPTH	18.7 in	47.4 cm
RADOME MATERIAL	Fiberglass	
RADOME COLOR	RAL 7005	
WIND LOADING @150KM/HR FRONTAL	432.7 N	97.3 lbf
WIND LOADING @150KM/HR LATERAL	586 N	132 lbf
WIND LOADING @150KM/HR REAR	500 N	112 lbf

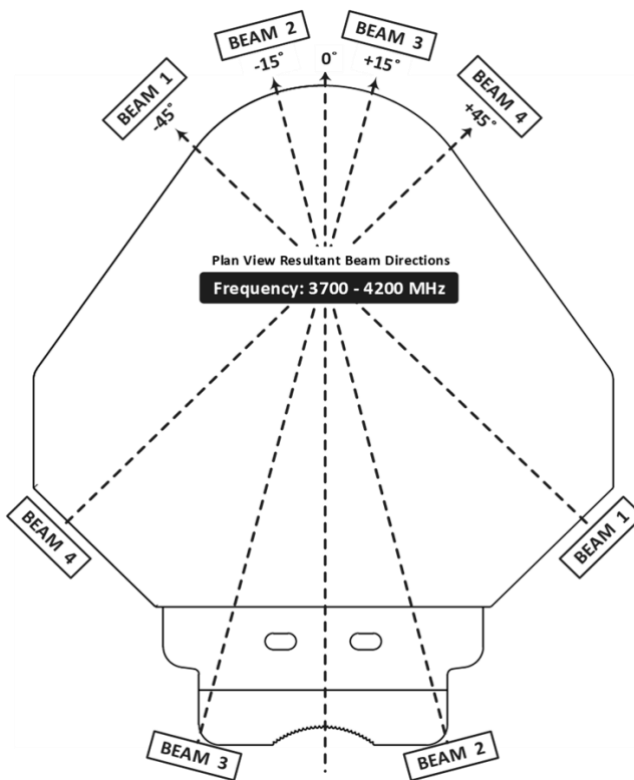


**Antenna Rear View****Antenna Front View****Mounting Detail****Antenna Top View****Antenna Bottom View**

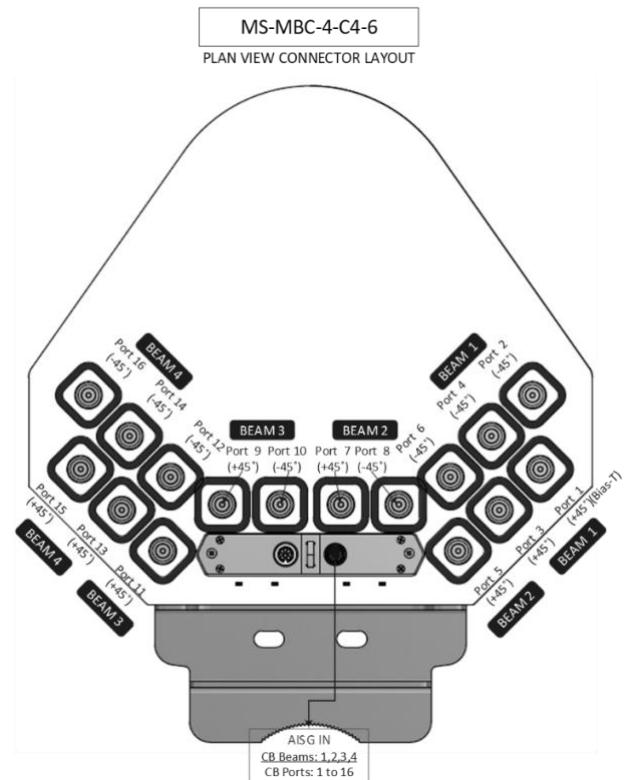
ENVIRONMENTAL RATINGS

HUMIDITY	95% RH @ +30°C
TEMPERATURE	-40°C to +70°C

BEAM, PORT, RF CONNECTOR & RET LAYOUT



Antenna Top View



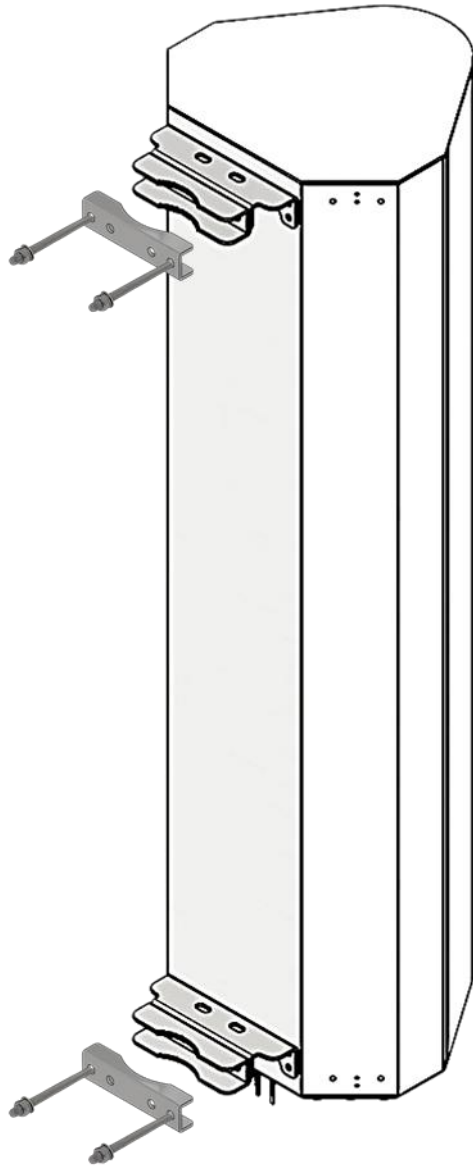
Antenna Top View

BEAM 4		BEAM 3			BEAM 2			BEAM 1	
Port 16 (-45°)	Port 14 (-45°)	Port 12 (-45°)	Port 9 (+45°)	Port 10 (-45°)	Port 7 (+45°)	Port 8 (-45°)	Port 6 (-45°)	Port 4 (-45°)	Port 2 (-45°)
Port 15 (+45°)	Port 13 (+45°)	Port 11 (+45°)					Port 5 (+45°)	Port 3 (+45°)	Port 1 (+45°)

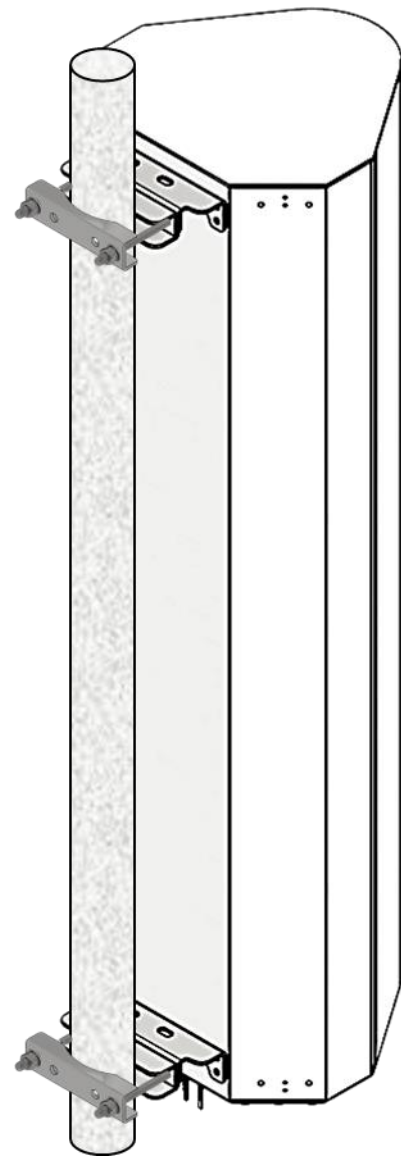
Connector Port Table

MOUNTING

COMPATIBLE PIPE DIAMETER	2.4 – 4.5 in	6.1 – 11.4 cm
BRACKET WEIGHT	3.48 lb.	1.58 kg



Before Installation



After Installation

REVISION HISTORY

DATE	DOCUMENT	
05/02/2025	Initial BASTA Datasheet Released	