



Radio Antennas

NAVY

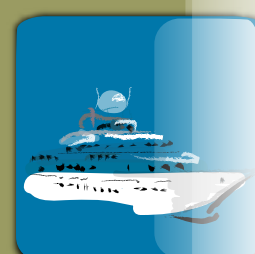
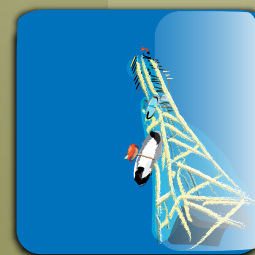
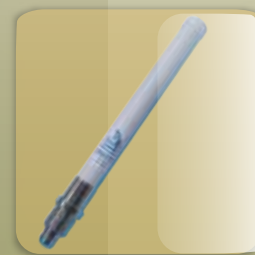
PMR

TETRA

VEHICULAR

AIR CONTROL

MILITARY



- Siamo cresciuti insieme al mercato della nautica,

Che negli anni è cambiato e noi siamo rimasti giovani e flessibili alle esigenze di questo mercato, con l'obiettivo di mantenere serietà e responsabilità verso i nostri clienti e distributori.

- Abbiamo selezionato e riunito la nostra manodopera:

tutti estremamente competenti e specializzati: le nostre punte di diamante. Professionisti della progettazione e produzione che credono in ciò che fanno e fanno ciò in cui credono. Che mettono passione ed entusiasmo nel loro lavoro. Onesti, appassionati, impegnati.

- Scegliamo le migliori materie prime: siamo produttori.

Da quarant'anni la famiglia Ambrogi, titolare della società, conduce l'azienda: i numerosi anni di lavoro hanno consentito di accumulare esperienza, saper scegliere e saper lavorare le migliori materie prime con le più diverse metodologie produttive, purché siano serie, efficaci, accurate... le caratteristiche della produzione italiana.

Perché portino risultati e miglioramenti tangibili nel lavoro dei nostri installatori, e nella sicurezza dei loro clienti.

Possiamo così offrire un prodotto per ogni fascia di mercato:

- Barche di Prestigio,
- Professionale per le barche da lavoro
- Esigenze Creative
- Competitivo
- Economico

- Seguiamo il prodotto. Anche dopo la vendita.

Siamo a disposizione per offrire conoscenza ed esperienza: per ogni informazione necessaria alla scelta, all'acquisto e all'installazione dell'antenna più giusta, cercando di interpretare le richieste dell'utilizzatore:

un'antenna sbagliata, un cavo o un connettore poco efficaci vanificherebbero tutto il lavoro.

- Grazie a questo,

Banten è una presenza speciale nel panorama italiano e mondiale della trasmissione e ricezione radio.

Una sorta di 'marchio doc': La nostra volontà è quella di essere i migliori nella produzione, per garantire migliori prodotti ed assicurando alti standard di servizio, professionalità.

Il nostro obiettivo è quello di assicurare competenza,

e, soprattutto, serietà.

...da oltre quarant'anni !



We grow up together nautical market, during these years it's changed and we are still young and flexible as required from this market. Our target is keeping trustworthiness and reliability for our customers and dealers.

We selected and assembled our job: everybody is extremely competent and specialized: they are our diamonds tips. Professional in design and in production: we believe in our work: impassioned, honest and engaged.

We choose the best raw materials, we are manufacturer company

From forty years Ambrogi's family, the company's owners, leads the business: several years of work allowed us to choose to work the best materials with various productive methodologies ... the Italian production peculiarity: to increase results in installer's work and for customer's safety.

We control the product also after the sale. We can offer you our knowhow: to choose and to install the correct model of antenna to satisfy your customers: a wrong antenna, cable or connector could compromise all work.

For these reasons Banten is a special brand in international radio antennas market. We want to improve the production quality to guarantee the best products with high standards. Our objective is to assure competence and, above all, reliability.

MILITARY

code	frequency		PAGE
13020	1,6-30 Mhz	20 Mt wire antenna – Phosporose bronze – fixed instalation with ATU	6
13012	1,6-30 Mhz	Wide band dipole antenna – Portable – 50 ohm – BNC connector – 20 mt cable RG-58	7
13010	2,0-30 Mhz	Ultra light dipole antenna – Portable – 50 ohm – Adjustable resonant frequency – BNC connector – 10 mt cable RG-58	8
13011	1,6-30 Mhz	Ultra light monopole antenna – Portable – 10 KV protection – with ATU	9
13013	2,0-30 Mhz	Ultra light monopole antenna – Portable – 50 ohm – 10 KV protection – BNC connector – 10 mt cable RG-58	9
13036-x	1,6-30 Mhz	1,30 mt Elements for HF Componible Antenna	10
13037-x	1,6-30 Mhz	1,00 mt Elements for HF Componible Antenna	11
		Standard NATO flange fixing, spring, High voltage Insulator,	12
		Manpack wide band antenna	13
		Land Stationary Element Antenna	14
13013-x	2-60 Mhz	Wide band vertical whip antenna	15
13292	20-80 Mhz	Ground Plane Vhf antenna	16
13051	1,6-30 Mhz	Manpack whip 2,50 mt with 7 fiberglass element with elastic traction mounting rope - fixing M10 or 5/16"24 or 5/8"18	18
13052	1,6-30 Mhz	Manpack whip 2,60 mt with 6 stainless steel element with stainless steel traction mounting rope - fixing 5/8" 18	19
13053	1,6-30 Mhz	Manpack whip 2,60 mt with 7 stainless steel element with elastic traction mounting rope - fixing M10 or 5/16"24 or 5/8"18	18
13027	30-108 Mhz	Manpack Long wideband SINCGAR antenna 2,50 mt 6 stainless steel elements connector 50 ohm direct to radio	20
13028	30-108 Mhz	Manpack Short wideband SINCGAR antenna 1 mt s/s blade - goodsenek semiflexibleconnector to ATU direct to radio	21
	30-108 Mhz	PRG4 F@astNet radio antenna	22-23
13050	1,6-60 Mhz	Veicular 3 section 1,20 mt element - 4. 20 mt long - standard NATO base	24
13057	1,5-30 Mhz	NVIS antenna	25
13035	30-88 Mhz	VHF veicular center feed dipole - 2,50 mt long - standard nato base	26
13035-1	25-108 Mhz	VHF veicular center feed dipole - 2,50 mt long - standard nato base - extended frequency version	26
13040	30-88 Mhz	VHF veicular short low profile monopole - 1,90 mt long - standard nato base	27
13046	118-174 Mhz	VHF veicular center feed dipole - 1,70 mt long - standard nato base	28
13039	225-400 Mhz	AIR-COMM veicular center feed dipole - 1,00 mt long - standard nato base	29
13047	380-470 Mhz	TETRA veicular center feed dipole - 1,00 mt long - standard nato base	30
13055	30-512 Mhz	Veicular center feed dipole ultra wide band - 2,50 mt long - standard nato base	31
13190	5Bands	GSM 5 Bands- UMTS Antenna	32
13188	2000-2700 Mhz	LTE and WIFI Bands antenna	33
13288	2,4-2,5 Mhz	WIFI with integrate transmitter- RJ45 10/100 base T Ethernet IEEE802,3	34
13066	1,0 - 6,0 Ghz	Very Large band Antenna	35

NAVY

code	frequency		PAGE
13056	30-88 Mhz	VHF veicular center feed dipole - 2,50 mt long - standard nato base - navy version - colour Grey 2673 semigloss FED-SRD595B	37
10100	1,6-30 Mhz	Navy HF fiberglass whip - 10 mt long - self supporting - insulator bottom exit - use with ATU	38
10200	1,6-30 Mhz	Navy HF fiberglass whip - 8,5 mt long - self supporting - insulator bottom connection - use with ATU	38
15722	1,6-30 Mhz	Navy HF fiberglass whip - 7 mt long - self supporting - insulator bottom connectio - use with ATU	38
10102	1,6-30 Mhz	Navy HF fiberglass whip - 10 mt long - self supporting - side connection - use with ATU	39
10202	1,6-30 Mhz	Navy HF fiberglass whip - 8,5 mt long - self supporting - side connection - use with ATU	39
15712	1,6-30 Mhz	Navy HF fiberglass whip - 7 mt long - self supporting - side connection - use with ATU	39
10103	1,6-30 Mhz	Navy HF fiberglass whip - 10 mt long - side stainless steel pipe clamps - side connection - use with ATU	40
10233	1,6-30 Mhz	Navy HF fiberglass whip - 8,5 mt long - side stainless steel pipe clamps - side connection - use with ATU	40
15702	1,6-30 Mhz	Navy HF fiberglass whip - 7 mt long - side stainless steel pipe clamps - side connection - use with ATU	40
15552	1,6-30 Mhz	Navy HF fiberglass whip - 5 mt long - mast mount U bolt - bottom connector 50 ohm receiving	41
15752	1,6-30 Mhz	Navy HF fiberglass whip - 7 mt long - mast mount U bolt - side connection - use with ATU	41
15852	1,6-30 Mhz	Navy HF fiberglass whip - 8 mt long - mast mount U bolt - side connection - use with ATU	41
10071	400-470 Mhz	Navy UHF fiberglass 5 dbi vertical collinear - 1,50 mt long - mast mount U bolt - bottom connector	42
10072	380-435 Mhz	Navy TETRA fiberglass 5 dbi vertical collinear - 1,50 mt long - mast mount U bolt - bottom connector	42
10097	147-162 Mhz	Navy VHF fiberglass 5 dbi vertical collinear - 2,50 mt long - mast mount U bolt - bottom connector	42
10098	118-136 Mhz	Navy AIR-TRAFFIC fiberglass 2 dbi vertical dipole - 1,70 mt long - mast mount U bolt - bottom connector	42
10099	144-162 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,30 mt long - mast mount U bolt - bottom connector	42

14077	400-470 Mhz	Navy UHF WIDE BAND fiberglass 2 dbi vertical dipole - 1,50 mt long - 1"glass pipe mount with bolt - bottom N connector	43
15118	118-136 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,50 mt long - 1"glass pipe mount with bolt - bottom PL connector	43
15138	385-430 Mhz	Navy TETRA fiberglass 2 dbi vertical dipole - 0,60 mt long - 1"glass pipe mount with bolt - bottom N connector	43
15139	400-435 Mhz	Navy UHF fiberglass 2 dbi vertical dipole - 0,60 mt long - 1"glass pipe mount with bolt - bottom N connector	43
15209	156-162 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,30 mt long - 1"glass pipe mount with bolt - bottom PL connector	43
15210	156-162 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,50 mt long - 1"glass pipe mount with bolt - bottom N connector	43
15300	300-340 Mhz	Navy RIVER SERVICE fiberglass 2 dbi vertical dipole - 1,00 mt long - 1"glass pipe mount with bolt - bottom PL connector	43
15339	435-470 Mhz	Navy UHF fiberglass 2 dbi vertical dipole - 0,60 mt long - 1"glass pipe mount with bolt - bottom N connector	43
15114		VHF-AIS-GPS antenna	44
15113	1575,42 Mhz	GPS Quadrifillar Helix antenna	45
15193		Mount Accessory for Navy series	45-46-47

code	frequency	LAND DIVISION -TETRA - PMR	PAGE
11044	118-156 Mhz	Wide band coaxial dipole - 2 dbi - 1,30 mt long - bottom exit N connector	49
11072	68-75 Mhz	Wide band coaxial dipole - 2 dbi - 2 mt long - bottom exit N connector	49
11075	136-175 Mhz	Wide band coaxial dipole - 2 dbi - 1,00 mt long - bottom exit N connector	49
11076	225-400 Mhz	Wide band coaxial dipole - 2 dbi - 0,60 mt long - bottom exit N connector	49
10080	70-75 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 2,80 mt long - mast mount U bolt - bottom N female connector	51
10081	75-80 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 2,80 mt long - mast mount U bolt - bottom N female connector	51
10082	136-145 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,50 mt long - mast mount U bolt - bottom N female connector	51
10083	155-175 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,30 mt long - mast mount U bolt - bottom N female connector	51
10084	136-150 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,70 mt long - mast mount U bolt - bottom N female connector	51
10085	160-175 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,50 mt long - mast mount U bolt - bottom N female connector	51
10097-1	147-162 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,50 mt long - mast mount U bolt - bottom N female connector	51
10098-1	118-136 Mhz	AIR-TRAFFIC tapered fiberglass whip 2 dbi vertical dipole - 1,70 mt long - mast mount U bolt - bottom N female connector	51
10099-1	144-162 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,30 mt long - mast mount U bolt - bottom N female connector	51
14080	400-470 Mhz	UHF tapered fiberglass whip 2 dbi vertical dipole - 0,60 mt long - mast mount U bolt - bottom N female connector	52
14081	400-470 Mhz	UHF tapered fiberglass whip 5 dbi vertical dipole - 1,10 mt long - mast mount U bolt - bottom N female connector	52
14083	400-435 Mhz	UHF tapered fiberglass whip 7 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	52
14084	435-470 Mhz	UHF tapered fiberglass whip 5 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	52
14090	380-435 Mhz	TETRA tapered fiberglass whip 2 dbi vertical dipole - 0,60 mt long - mast mount U bolt - bottom N female connector	52
14091	380-435 Mhz	TETRA tapered fiberglass whip 5 dbi vertical dipole - 1,00 mt long - mast mount U bolt - bottom N female connector	52
14092	380-435 Mhz	TETRA tapered fiberglass whip 7 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	52
14320	746-869 Mhz	LTE CL radome antenna	52
14180	70-75 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 2,80 mt long - mast mount U bolt - bottom N female connector	52
14181	75-80 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 2,80 mt long - mast mount U bolt - bottom N female connector	53
14182	136-145 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,50 mt long - mast mount U bolt - bottom N female connector	53
14183	155-175 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,30 mt long - mast mount U bolt - bottom N female connector	53
14184	136-150 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,70 mt long - mast mount U bolt - bottom N female connector	53
14185	160-175 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,50 mt long - mast mount U bolt - bottom N female connector	53
14197	147-162 Mhz	VHF tapered fiberglass whip 5 dbi vertical dipole - 2,50 mt long - mast mount U bolt - bottom N female connector	53
14198	118-136 Mhz	AIR- TRAFFIC tapered fiberglass whip 2 dbi vertical dipole - 1,70 mt long - mast mount U bolt - bottom N female connector	53
14199	144-162 Mhz	VHF tapered fiberglass whip 2 dbi vertical dipole - 1,30 mt long - mast mount U bolt - bottom N female connector	53
14190	380-435 Mhz	TETRA tapered fiberglass whip 2 dbi vertical dipole - 0,60 mt long - mast mount U bolt - bottom N female connector	54
14191	380-435 Mhz	TETRA tapered fiberglass whip 5 dbi vertical dipole - 1,00 mt long - mast mount U bolt - bottom N female connector	54
14192	380-435 Mhz	TETRA tapered fiberglass whip 7 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	54
14280	400-470 Mhz	UHF tapered fiberglass whip 2 dbi vertical dipole - 0,60 mt long - mast mount U bolt - bottom N female connector	54
14281	400-470 Mhz	UHF tapered fiberglass whip 5 dbi vertical dipole - 1,10 mt long - mast mount U bolt - bottom N female connector	54
14283	400-435 Mhz	UHF tapered fiberglass whip 7 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	54
14284	435-470 Mhz	UHF tapered fiberglass whip 5 dbi vertical dipole - 2,20 mt long - mast mount U bolt - bottom N female connector	54
14317	746-869 Mhz	LTE Mast radome antenna	54

15118	118-136 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,50 mt long - 1"glass pipe mount with bolt - bottom PL connector	55
15135	135-150 Mhz	Navy 135 VHF 135-150 Mhz 1,20 mt. PL connector	55
15138	385-430 Mhz	Navy TETRA fiberglass 2 dbi vertical dipole - 0,60 mt long - 1"glass pipe mount with bolt - bottom N connector	55
15139	400-435 Mhz	Navy UHF fiberglass 2 dbi vertical dipole - 0,60 mt long - 1"glass pipe mount with bolt - bottom N connector	55
15150	150 -175 Mhz	NAVY 150 VHF - 150 -175 Mhz - 1,20 mt - NAVY mount - 0 db gain - PL connector	55
15210	156-162 Mhz	Navy VHF fiberglass 2 dbi vertical dipole - 1,50 mt long - 1"glass pipe mount with bolt - bottom N connector	55
15300	300-340 Mhz	Navy RIVER SERVICE fiberglass 2 dbi vertical dipole - 1,00 mt long - 1"glass pipe mount with bolt - bottom PL connector	55
15339	435-470 Mhz	Navy UHF fiberglass 2 dbi vetical dipole - 0,60 mt long - 1"glass pipe mout with bolt - bottom N connector	55
1037	136-175 Mhz	5/8 ground plane antenna turnable frequency	56
14050	136-146 Mhz	Wide band center feed dipole - s/s material -- 2 dbi gain - mast 30-60 mm dia bracket - adjustable 0,8-0,4 mt stand off	57
14051	145-175 Mhz	Wide band center feed dipole - s/s material - 2 dbi gain - mast 30-60 mm dia bracket- adjustable 0,8-0,4 mt stand off-	57
14052	385-470 Mhz	Wide band center feed dipole - s/s material - 2 dbi gain - mast 30-60 mm dia bracket- adjustable 0,2-0,16 mt stand off	57
14153	200-400 Mhz	UHF Directive Log Periodic Antenna	58
14053	40-42 Mhz	Yagi 3 element -6db gain - mast 60-120 mm bracket - alluminium - adjustable frequency	59
		Yagi 3 element -6db gain - mast 60-120 mm bracket - s/s material	60-61
11311	385-470 Mhz	UHF Multiple dipole indipendent - bottomn feed - 260 mm flange - 3 dipole - tetra	62
11312	385-470 Mhz	UHF Multiple dipole indipendent - bottomn feed - 260 mm flange - 4 dipole - tetra	62
11314	385-470 Mhz	UHF Multiple dipole indipendent - bottomn feed - 260 mm flange - 2 dipole - tetra	62
13319	746-869 Mhz	LTE Omnidirectional antenna	63

code	frequency	AIR TRAFIC CONTROL	PAGE
11308	118-144 Mhz	VHF Multiple dipole indipendent - bottom feed - 320 mm flange - 2 dipole	68
11309	118-144 Mhz	VHF Multiple dipole indipendent - bottom feed - 320 mm flange - 3 dipole	68
11306	220-400 Mhz	UHF Multiple dipole indipendent - bottom feed - 320 mm flange - 2 dipole	69
11307	220-400 Mhz	UHF Multiple dipole indipendent - bottom feed - 320 mm flange - 3 dipole	69
11310	400-470 Mhz	UHF Multiple dipole indipendent - bottom feed - 320 mm flange - 4 dipole	69
11313	220-400 Mhz	UHF Multiple dipole indipendent - bottom feed - 320 mm flange - 5 dipole	69
11315	118-400 Mhz	Multiple dipole indipendent - bottom feed - 320 mm flange - 2 dipole -VHF-UHF - 118-136 and 220-400 Mhz	70
11316	118-400 Mhz	Multiple dipole indipendent - bottom feed - 320 mm flange - 3 dipole VHF-UHF-VHF - 118-136 and 220-400 Mhz	70
11317	118-400 Mhz	Multiple dipole indipendent - bottom feed - 320 mm flange - 3 dipole- UHF-VHF-UHF - 118-136 and 220-400 Mhz	70
11133	200-500 Khz	Self supporting radio Beacon antenna - 15 mt wip - side feed - 260 mm flange	72
11120	100-156 Mhz	Ultra large band dipole	71
11305	225-400 Mhz	Ultra large band dipole	71
		Radio Beacon antenna - 9 mt wip	73

code	frequency	VEHICULAR MOBILE	PAGE
		Vhf - UHF 1/4 wave - Vehicular Whip	76
		Vhf - UHF 5/8 - 5/4 wave - Vehicular Whip	78
		Low Profile Vehicular antennas	80
14133	1575,42 Mhz	GPS Accessory	75

code	frequency	TV PANEL	PAGE
		UHF Panel	63-64

WIRE ANTENNA

1,6 - 30 MHZ

code 13020

10 mt S/S Aisi 316
7 x 7 dia 4 mm
Use only the necessary
length

- Strong Fix dipole antenna
- Simple field adjustments
- Usable with ATU

1 mt S/S aisi 316
7 x 7 dia 4 mm

10 mt S/S Aisi 316
7 x 7 dia 4 mm
Use only the necessary
length

1 mt S/S aisi 316
7 x 7 dia 4 mm

20 mt Phosporose Bronze
7 x 7 dia 3 mm

MECHANICAL FEATURES

Min. Length	20 mt (65,61')
Max. Length	45 mt (147,63')
Wire diameter	3 mm
Weight	- - -
Working temperature	-35C +80C
Wind resistance	200 Km/h

ELECTRICAL FEATURES

Frequency	1,6 - 30 Mhz
Impedance	ATU
Max Insulation	63 Kv
Max Power	1 Kw
Lighting protection	No
DC closed	No
Connection Bolt	8 mm

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

Collegamento ATU

20 mt Ground copper wire
dia 4 mm

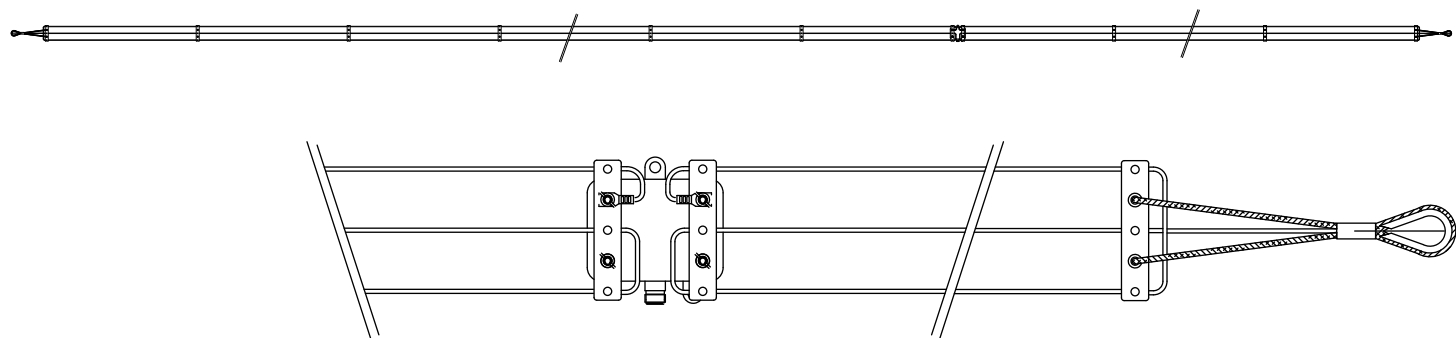
Strip ground cable only
in connection point

WIDE BAND DIPOLE ANTENNA

1,6 - 30 MHZ

code 13012

- Ultra-light portable dipole antenna
- Short dimension
- No simmetrical
- Wide band
- Radiating element Polyester core with copper tinned with insulation cover
- Center Junction in with BNC connection plastic mould
- Feeding cable 20 mt RG-58 with BNC male connector and cable support
- Support Polithene Rope 20 + 20 mt with lead throwing end

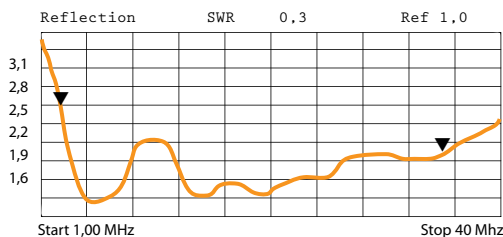


MECHANICAL FEATURES

Total Length	29 mt
Long radiating element	19 mt
Short radiating element	10 mt
Wire diameter	3 mm
Support Rope	2 x 20 mt polithene rope 3 mm
weight	3 Kg
Working temperature	-35C +80C

ELECTRICAL FEATURES

Frequency	1,6 - 30 Mhz
Impedance	50 ohm
SWR	< 2,5
Max Power	400 W
Connection	BNC female
Lighting protection	No
DC closed	No



COMPONENTS

Short arm	1 x 19 mt +20 mt rope
Long arm	1 x 10 mt + 20 mt rope
Baloon	1 pcs
Connection cable	1 x 20 mt RG-58 + 2 BNC male
Guy pages	2 pcs

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704

- Ultra-light portable dipole antenna
- Adjustable resonant Frequency
- Radiating element Polyester core with copper tinned with insulation cover
- Center Junction in with BNC connection plastic mould
- Feeding cable 10 mt RG-58 with BNC male connector and cable support
- Support Polithene Rope 20 + 20 mt with lead throwing end
- Connector to use as a monopole with ATU



MECHANICAL FEATURES

Min. Length	3 mt (30 Mhz)
Max. Length	46 mt (2 Mhz)
Wire diameter	3 mm
Weight	1 Kg
Working temperature	-35C +80C
Wind resistance	200 Km/h

ELECTRICAL FEATURES

Frequency	2 - 30 Mhz
Impedance	50 ohm
SWR	< 2,0
Max Power	400 W
Lighting protection	No
DC closed	No

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

- Ultra-light portable monopole antenna
- USE with ATU
- Radiating element Polyester core with copper finned with insulation cover
- Support Polithene Rope 10 mt with lead throwing end
- 10 KV lightning protection



MECHANICAL FEATURES

Min. Length	3 mt (30 Mhz)
Max. Length	46 mt (2 Mhz)
Wire diameter	3 mm
Weight	0,5 Kg
Working temperature	-35C +80C
Wind resistance	200 Km/h

ELECTRICAL FEATURES

Frequency	2 - 30 Mhz
Impedance	50 ohm
SWR	< 2,0
Max Power	400 W
Lighting protection	No
DC closed	No

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

MODULAR HF 1,5 - 30 Mhz

code 13036 series

1,20 mt (4') elements

- Standard Thread Mount
- All the Contact Elements insulated 10 KV at antenna mount
- No Metal Parts out with antenna mounted
- 1,30 mt (4') open element

MECHANICAL FEATURES

ELECTRICAL FEATURES

Antenna structure	Epoxy fiberglass	Frequency TX	1,5 - 30 Mhz with ATU
Ferrule	chrome plated brass	Frequency RX	0,1 - 30 Mhz with RX transformer
Finishing	Polyurethane paint	Max Power	1000 W
Colour	Green Nato IR	Polarization	Vertical
Chromium plating	20m copper,	Insulation Elements	10 KV
	20m nickel, 5m chrome	Insulation Base	10 KV
Working temperature	-35C +80C	Max wind speed	150 Km/h



Code	Elements	Diameter	T.th male	B.th female	Lenght	Wheight
13036-1	TIP Elem. 1	12 mm	-	1/4"x 8th (7 mm)	1,20mt(4')	120 gr
13036-2	Elem. 2	18mm	1/4"x 8th (7 mm)	1/2"x 8th (12 mm)	1,30mt(4'3")	200 gr
13036-3	Elem. 3	18mm	1/2"x 8th (12 mm)	1/2"x 8th (12 mm)	1,30mt(4')	300 gr
13036-4	Elem. 4	33mm	1/2"x 8th (12 mm)	1"x 8th (24 mm)	1,30mt(4')	500gr
13036-5	Elem. 5	33mm	1"x 8th (24 mm)	1"x 8th (24 mm)	1,30mt(4')	500gr

	Sections	13036-1	13036-2	13036-3	13036-4	13036-5	Lenght	Wheight	Base th.	Torsion	Config.
13036 - 12	3	1	1	1	-	-	3,60 mt (12')	520 gr	12mm(1/2")	45N	mobile
13036 - 16	4	1	1	2	-	-	4,80 mt (16')	1,0 kg	12mm(1/2")	65N	mobile
13036 - 20	5	1	1	1	1	1	6,00 mt (20')	1,2 Kg	12mm(1/2")	100N	mobile
13036 - 24	6	1	1	1	1	2	7,20 mt (24')	3,0 Kg	24mm(1")	150 N	stazionario
13036 - 32	8	1	1	1	1	4	9,60 mt (32')	4,6 Kg	24mm(1")	250 N	stazionario



Fast insert round threads standard



Flag rings



Ring for tying antenna over the vehicle

MODULAR HF 1,5 - 30 Mhz

0,90 mt (3') elements

code 13037 series

- Standard Thread Mount
- All the Contact Elements insulated 10 KV at antenna mount
- No Metal Parts out with antenna mounted
- 1,00 mt (4') open element



MECHANICAL FEATURES

ELECTRICAL FEATURES

Antenna structure	Epoxy fiberglass	Frequency TX	1,5 - 30 Mhz with ATU
Ferrule	chrome plated brass	Frequency RX	0,1 - 30 Mhz with RX transformer
Finishing	Polyurethane paint	Max Power	1000 W
Colour	Green Nato IR	Polarization	Vertical
Chromium plating	20m copper,	Insulation Elements	10 KV
	20m nickel, 5m chrome	Insulation Base	10 KV
Working temperature	-35C +80C	Max wind speed	150 Km/h

Code	Elements	Diameter	T.th male	B.th female	Lenght	Wheight
13037-1	TIP Elem. 1	12 mm	-	1/4"x 8th (7 mm)	0,90 mt (2'95")	120 gr
13037-2	Elem. 2	18 mm	1/4"x 8th (7 mm)	1/2"x 8th (12 mm)	1,00 mt (3'29")	200 gr
13037-3	Elem. 3	18 mm	1/2"x 8th (12 mm)	1/2"x 8th (12 mm)	1,00 mt (3'29")	300 gr

	Sections	13037-1	13037-2	13037-3	Lenght	Wheight	Base th.	Torsion	Config.
13037 - 9	3	1	1	1	2,7 mt (9')	520 gr	12 mm (1/2")	45N	mobile
13037 - 12	4	1	1	2	3,6 mt (12')	1,0 kg	12 mm (1/2")	65N	mobile
13037 - 15	5	1	1	3	4,5 mt (15')	1,2 Kg	12 mm (1/2")	100N	mobile



Fast insert round threads standard

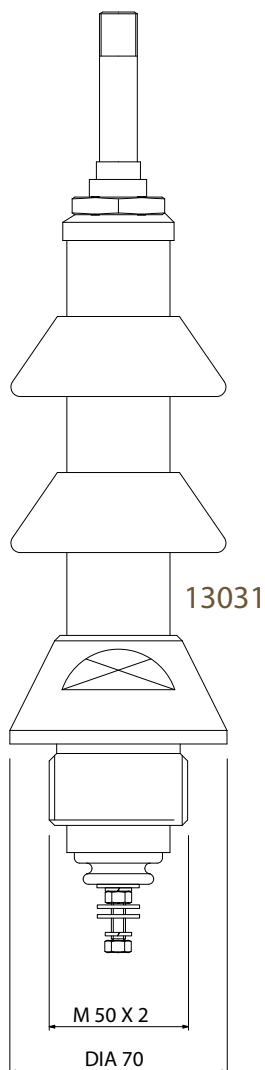


Flag rings

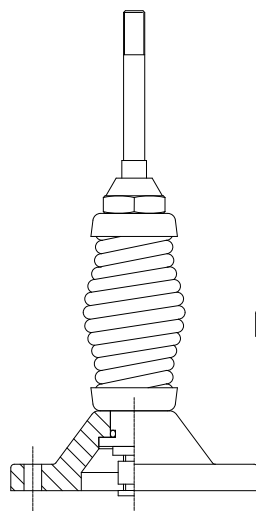


Ring for tying antenna over the vehicle

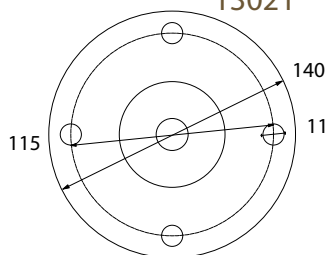
MODULAR ANTENNA BASE



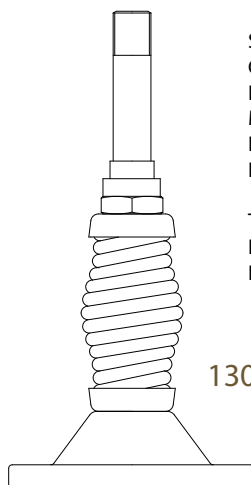
HY VOLTAGE FEED-THRU INSULATOR
Code 13031
Connection 2" thread with bolt
Fix hole 50 mm
Max power 1KW
Insulation 20 KV
Fit Element antenna 16' - 32'
Thread 1" standard NATO
Hight 350 mm
Included hardware and gasket



13021



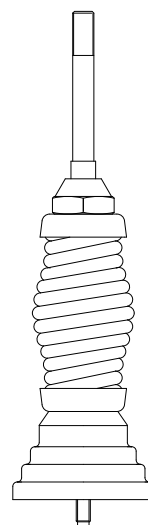
STANDARD NATO FLANGE 1/2" WITH SPRING
Code 13021
Fix standard NATO stationary - mobile
Max power 500W
Insulation 10KV
Fit element antenna 9'-20'
Thread 1" standard NATO
Hight 280 mm
Included hardware and gasket



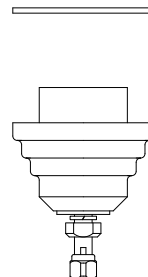
13022

STANDARD NATO FLANGE 1" WITH SPRING
Code 13022
Fix standard NATO stationary - mobile
Max power 1KW
Insulation 10KV
Fit element antenna mobile 16'-20'
 element antennastationary 20'-32'
Thread 1" standard NATO
Hight 280 mm
Included hardware and gasket

FEED-THRU 1/2" RIGID AB/15 GR
Code 13025
Fix dia 50 - mobile
Max power 500W
Insulation 10KV
Fit element antenna 9-20'
 stationary 20'-32'
Thread 1/2" standard NATO
Hight 35 mm
Included hardware and gasket

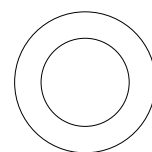
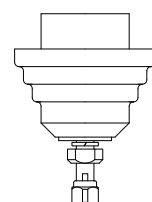
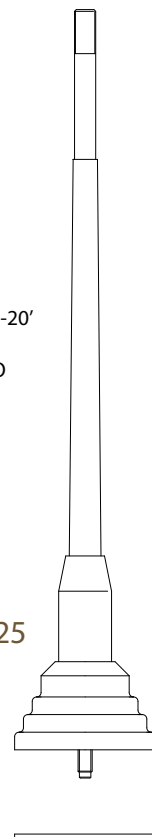


13024



FEED-THRU 1/2" WITH SPRING
Code 13024
Fix dia 50 - mobile
Max power 500W
Insulation 10KV
Fit element antenna 9-20'
 stationary 20'-32'
Thread 1/2" standard NATO
Hight 280 mm
Included hardware and gasket

13025



MANPACK ANTENNA Wide Band

code 13183

code 13181

code 13180

code 13182

225-1000 Mhz

1,0 - 2,7 Ghz

1,7-2,4 Ghz & 2,4-2,7 Ghz

0,7-0,96 Ghz & 2,4-2,7 Ghz

- 50 Ohm connector not necessary ATU
- N male connector or TNC connector
- Gooseneck to easy installation
- extra size connector bush
- IP 67 protection

Model Code	13183	13181	13180	13182
Frequency	225-1000 Mhz	1,0-2,5 Ghz	1,7-2,2Ghz & 2,4-2,7 Ghz	750-980 Mhz & 1,7-2,7 Ghz
SWR	3,0	3,0	2,0	2,0
Gain	-6 dbi @ 0 dbi	-6 db @ 0 dbi	0 db @ 3 dbi	0 db @ 3 dbi
Length	780 mm	400 mm	350 mm	300 mm
Weigh	600 gr	500 gr	320 gr	320 gr

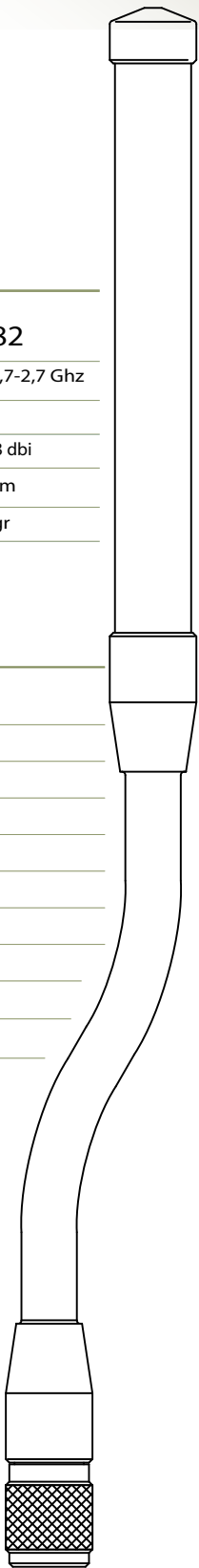
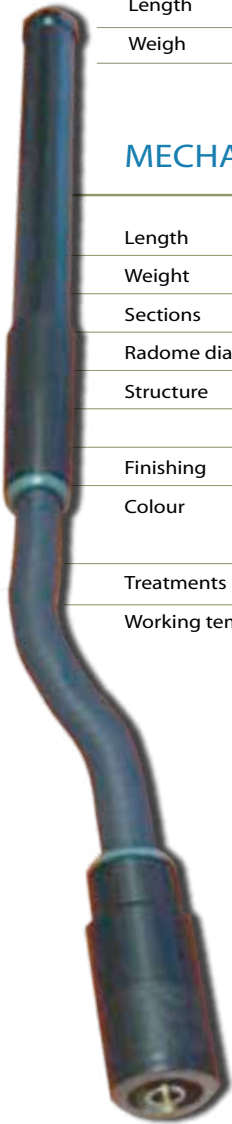
MECHANICAL FEATURES

ELECTRICAL FEATURES

Length	see the table	Frequency	see the table
Weight	see the table	Impedance	50 Ohm
Sections	1	SWR	see the table
Radome diameter	25 mm	Gain	see the table
Structure	Epoxy fiberglass	Max Power	30 W
	alluminium and S/S	Polarization	Vertical
Finishing	IR paint	Horizontal Irradiation	360°
Colour	Green Nato IR	Vertical Irradiation	30° - 60°
	Black IR	Connector	N male or TNC
Treatments	Black galvanization	DC closed	No
Working temperature	-35C +80C		

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



LAND STATIONARY ELEMENT ANTENNA KIT

necessary to add the antenna element

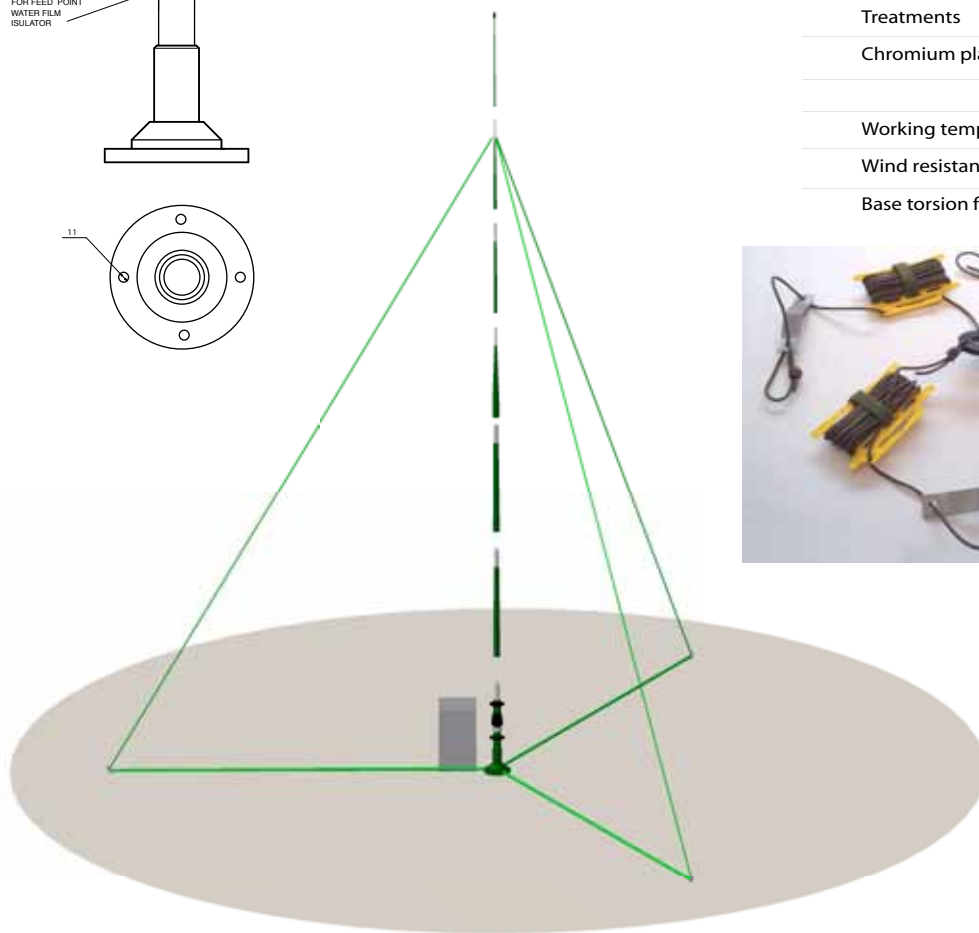
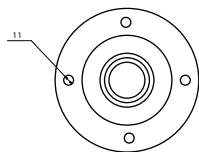
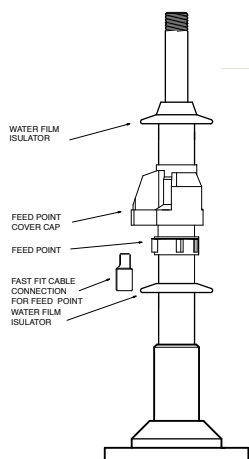
code 13026/XX

ELECTRICAL FEATURES

Frequency	1,6 - 30 Mhz
Impedance	with ATU
Max Power	1000 W
Polarization	Vertical
Connection	Fast for ATU
Lighting protection	No
DC closed	No

MECHANICAL FEATURES

Length	7,20 - 9,60 mt
Weight	see the table
Bottom diameter	35 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper
	20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	200 Km/h
Base torsion force	see the table



KIT COMPOSITION

- 1 Base
- 3 Guy ropes
- 6 Ground stakes
- 1 Ground radial kit
- 1 Hammer
- 1 Canvas case with 8 pocket for the antenna elements

Create your own antenna- 13036-1 and 13036-2 supplied as standard:

	Sections	13036-3	13036-4	13036-5	Lenght	Weight	Base th.	Torsion	Config.
13036 - 24	6	1	1	2	7,20 mt (24')	3,0 Kg	24mm(1")	150 N	stationary
13036 - 32	8	1	1	4	9,60 mt (32')	4,6 Kg	24mm(1")	250 N	stationary

WIDE BAND VERTICAL WHIP ANTENNA 2 - 60 MHZ

code 13136-XX

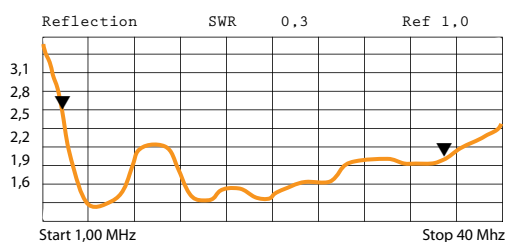
- Ultra-light portable VERTICAL WHIPAntenna
- Short dimension
- 50 Ohm not necessary tuner
- Wide band
- N connector at the bottom
- Support Polithene Rope 3X

ELECTRICAL FEATURES

Frequency	2-60 Mhz
Impedance	50 ohm
SWR	< 2,5
Max Power	150 W
Connection	N female
Lighting protection	No
DC closed	No

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704



Elements

code 13036-1

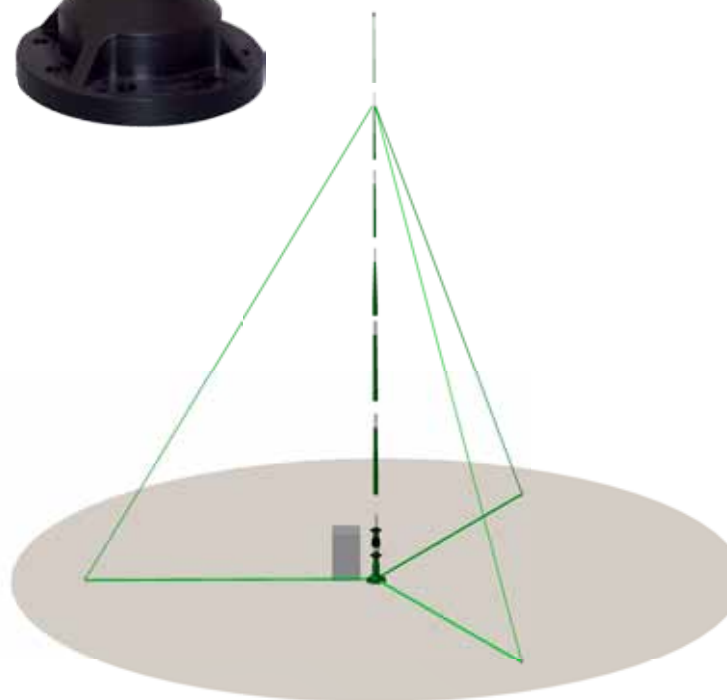
code 13036-2

code 13036-3

code 13036-4

code 13036-5 : see the table

	Sections	13036-5	Freq	Lenght	Weight
13136- 16	4	0	10 - 60 Mhz	4,80 mt (16')	4,5 Kg
13136 - 24	6	2	5 - 30 Mhz	7,20 mt (24')	6,0 Kg
13136 - 32	8	4	2 - 20 Mhz	9,60 mt (32')	8,8Kg



KIT COMPOSITION

- 1 Base
- 3 Guy ropes
- 3 Ground stakes
- 1 Hammer
- 1 Cavas case with 8 pocket for the antenna elements

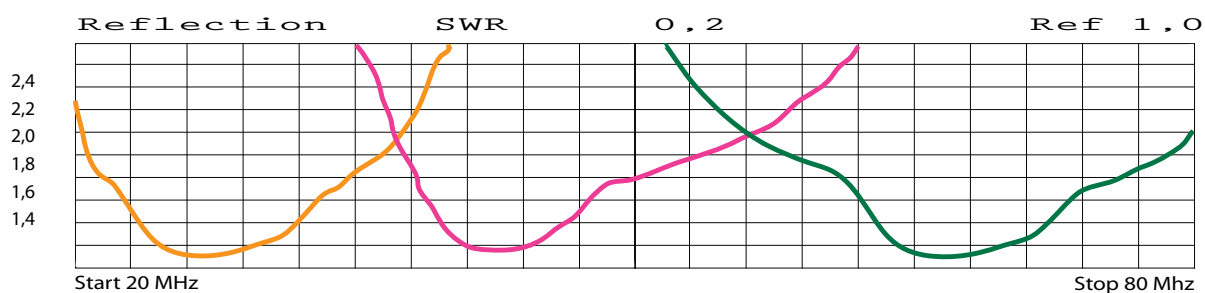
RC 292 Antenna
Ground plane VHF 20-80 Mhz antenna
Wide band modified to frequency
Radio sets to use AN/VRC-12 AN/PRC-77
All the other VHF-FM radio systems

code 13292
AT-292/PRC

MECHANICAL FEATURES

ELECTRICAL FEATURES

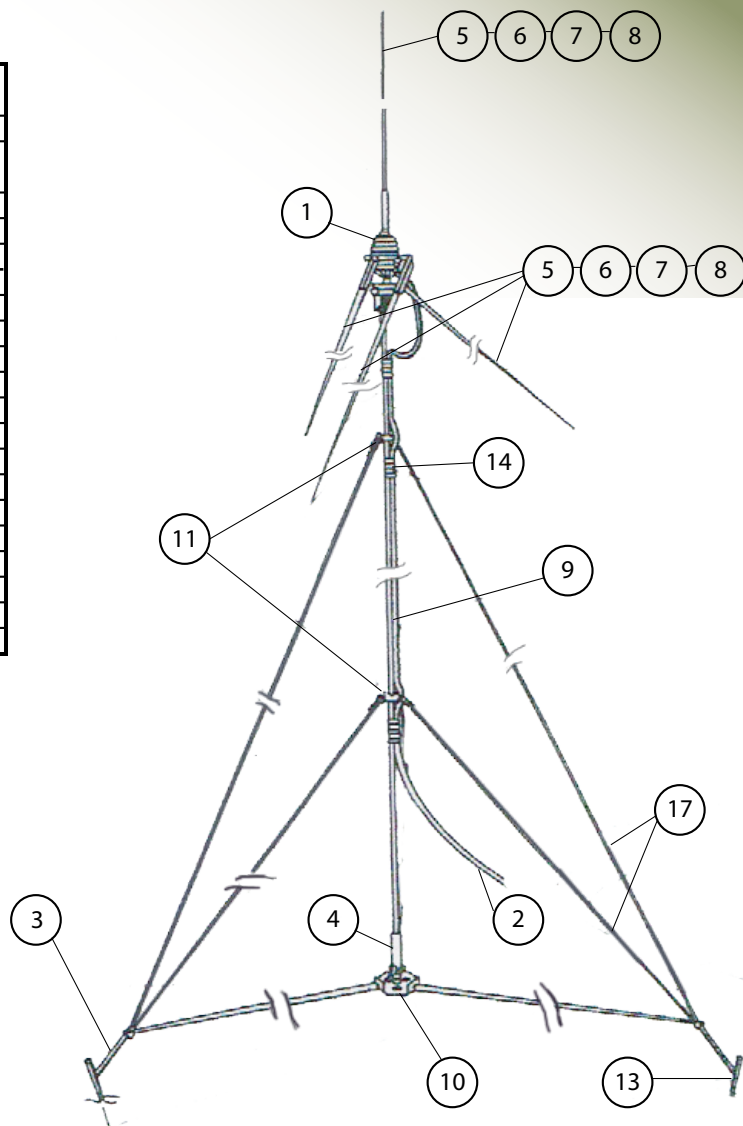
Dimension height	12 mt (40 ft)	Frequency range	20 - 80 Mhz
Vertical whip length	max 3,75 mt (12') - min 1,87 (6')	Antenna type	Ground plane
Antenna ground	max 4,70 mt (15') - min 2,80(9')	SWR	2:1 max on selected frequency
Antenna elevation (mast)	9,2 mt (30')	Impedance	50 Ohm
Antenna base space	9,20 mt (30') diameter	Gain	3 dbi
Antenna elements	see table 2	Max power	200 W
Color	green nato 383 R	Polarization	Vertical
Working Temperature	-35 °C +80 °C	Horizontal irradiation	306°
Max wind resistance	150 Km/h	Connector	PL female
		DC closed	NO
		Lighting protection	NO
Technical Manual	TM 11-5820-348-15		
Repair parts Manual	TM 11-5820-348-24P		



ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

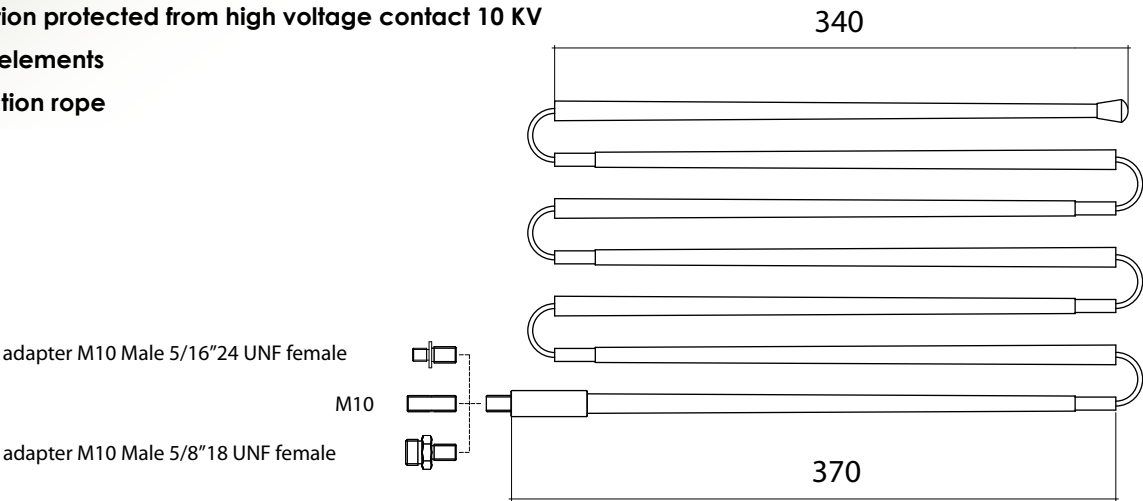
Item	#PN	Description	Quantity	Mounting	Spare
1	MP-68	Antenna base	1	1	0
2	CG-107/A/U	Cable ass 19 mt RG-213 + 2 PL male connect	1	1	0
3	SCD-16844-1	Guy straps	6	4	2
4	AB-154/U	Mast base	1	1	0
5	AB21/GR	Antenna whip section	16	12	4
6	AB22/GR	Antenna whip section	6	4	2
7	AB23/GR	Antenna whip section	6	4	2
8	AB24/GR	Antenna whip section	6	4	2
9	AB-35/TRC-7	Mast section	12	12	0
10	SCD-17261-1	Plate base	1	1	0
11	SCD-17261-2	Plate guy	4	2	2
12	RL-28	Reel	4	3	1
13	SCD-33999	Strake guy	4	3	1
14	TL-89	Tape	1	1	0
15	UG-255/U	Adapter connector	1	0	1
16	M-422	Adapter	1	1	0
17	SMC-158374	Guy ropes	9	9	0
18	CW-50/TRC-7	Roll bag	1	0	0
19	H3	Hammer	1	0	0
20	TM-11-5820-348-15	Instruction Manual	1	0	0



Collapsible
Manpack Whip HF 1.6 - 60 Mhz

- Compatibility with NATO communication system
- To connect to ATU
- Upper section protected from high voltage contact 10 KV
- Fiberglass elements
- Elastic traction rope

code 13051 - fiberglass elements
code 13053 - stainless steel elements



MECHANICAL FEATURES

Length	2,50 mt (8")
Weight	0,450 kg
Sections	7 elements
Diameter	9 mm
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green Nato IR
Chromium plating	20µm copper, 20µm nickel, 5µm chrome
Working temperature	-55°C + 80°C
Flection	90° Flection fiberglass whip

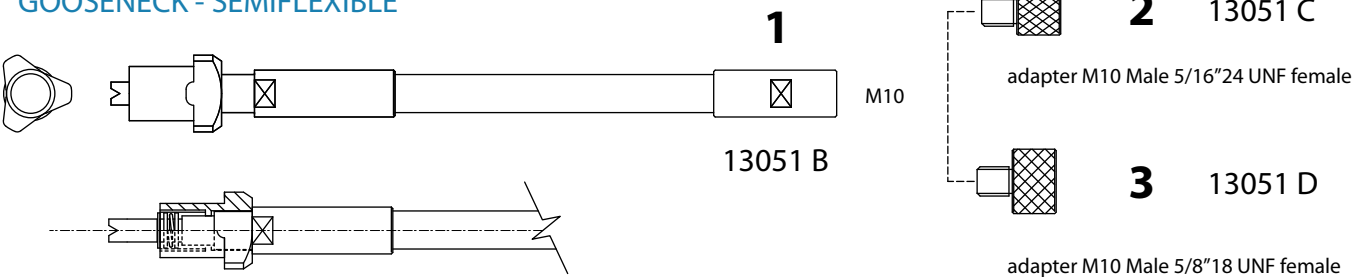
ELECTRICAL FEATURES

Frequency	1,6 - 60 Mhz with ATU
Max Power	20 W
Polarization	Vertical
Horizontal Irradiation	360°
Connection	See drawing
Lighting protection	NO
DC closed	NO

ENVIRONMENTAL SPECIFICATION

- Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
- Vibration resistance in accordance with MIL-STD 167-1
- Shock resistance in accordance with MIL-STD 810E
- Treatments and paintings in accordance with MIL-T-704K

GOOSENECK - SEMIFLEXIBLE

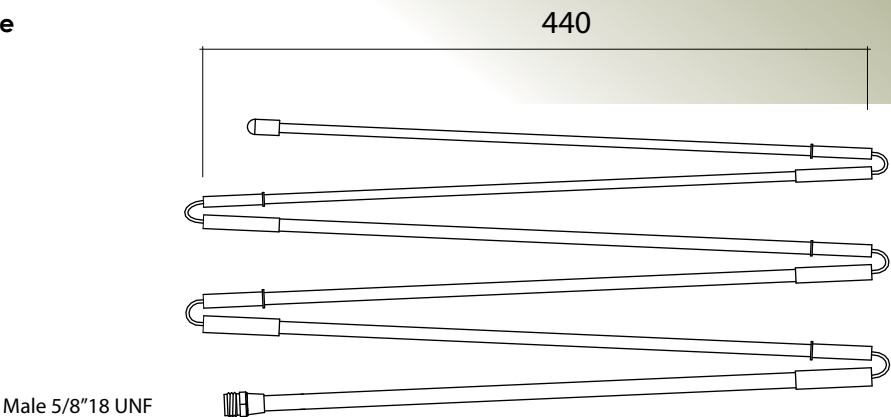


other radio connection available on request

Collapsible
Manpack Whip HF 1.6 - 60 Mhz

- Compatibility with NATO communication system
- To connect to ATU
- Stainless steel elements
- Stainless steel traction wire rope

code 13052
AT - 271 A/PRC



MECHANICAL FEATURES

Length	2,60 mt (8")
Weight	0,595 kg
Sections	8 elements
Diameter	9,5 mm
Structure	Stainless steel tubes
	Bronze connection
Finishing	IR powder paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20µm copper, 20µm nickel, 5µm chrome
Working temperature	-55°C + 80°C

ELECTRICAL FEATURES

Frequency	1,6 - 60 Mhz with ATU
Max Power	100W
Polarization	Vertical
Horizontal Irradiation	360°
Connection	Male th 5/8"-24 th umf
Lighting protection	NO
DC closed	NO

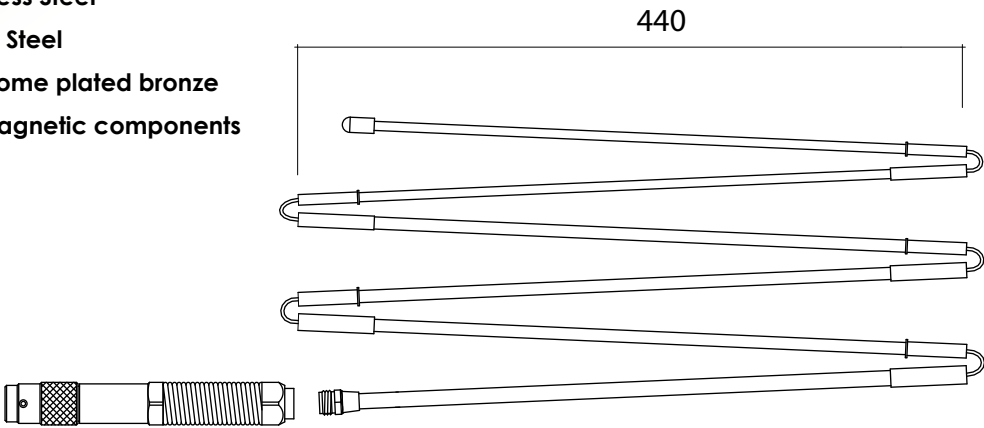
ENVIRONMENTAL SPECIFICATION

- Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
- Vibration resistance in accordance with MIL-STD 167-1
- Shock resistance in accordance with MIL-STD 810E
- Treatments and paintings in accordance with MIL-T-704K

Long Manpack Wideband antenna
AS - 4266 A /PRC (SINGGARS)

code 13027
AS - 4266 A /PRC

- Compatibility with NATO communication system (SINGGARS)
- 50 Ohm connector not necessary ATU
- Fouled Elements in Stainless Steel
- Traction Corde in Stainless Steel
- Connection inserction chrome plated bronze
- All the antenna haven't magnetic components

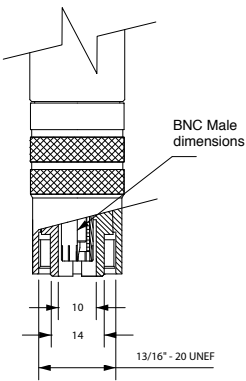


MECHANICAL FEATURES

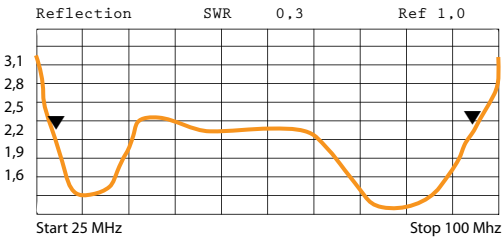
Length	2,46 mt (8")
Weight	0,760 kg
Sections	6
Bottom diameter	12 mm
Base Installation	BNC Connector
Structure	Stainless Steel
Finishing	IR powder paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +70 C

ELECTRICAL FEATURES

Frequency	30 - 108 Mhz
Impedance	50 Ohm
Gain	from -5dbi to 0 dbi
Max Power	10 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	BNC Female
Lighting protection	Yes
DC closed	Yes



13027 A



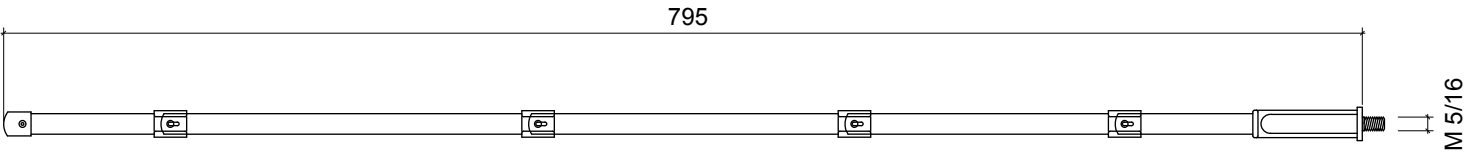
13027 B

SINGGARS Connector

SHORT MANPACK BLADE ANTENNA
SINGARS

code 13028
AS/ 3683 A/ PRC

- Compatibility with NATO communication system (SINGARS)
- Tape whip in stainless steel
- All the antenna not magnetic components

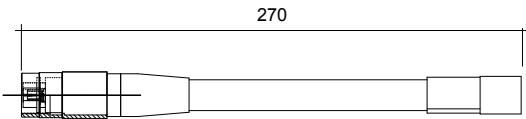
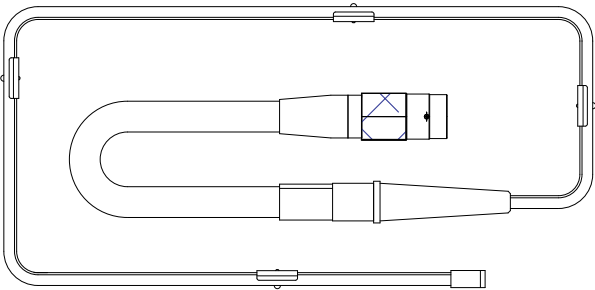


MECHANICAL FEATURES

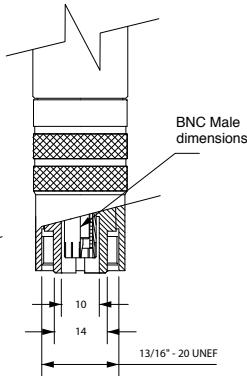
Length	1090 mm (43")
Weight	0,4 kg
Sections	2
Top material	Stainless steel tape
Finishing	IR powder paint
Colour	Green Nato IR
Working temperature	-35C + 70C

ELECTRICAL FEATURES

Frequency	30 - 108 Mhz with ATU
Max Power	20 W
Polarization	Vertical
Horizontal Irradiation	360°
Connector	SINGARS specification



Gooseneck semiflexible



SINGARS Connector

ENVIRONMENTAL SPECIFICATION

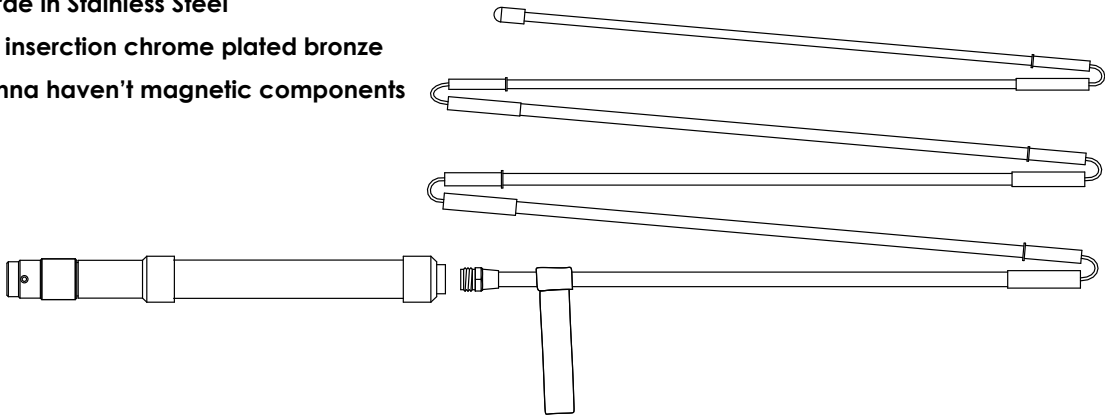
Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



COLLAPSABLE LONG
MANPACK PR4G F@stNet radio

code 13081

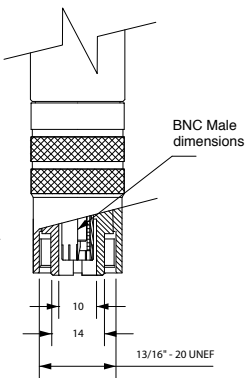
- Compatibility with F@stnet radio
- 50 Ohm connector not necessary ATU
- Elements in Stainless Steel
- Traction Corde in Stainless Steel
- Connection inserction chrome plated bronze
- All the antenna haven't magnetic components



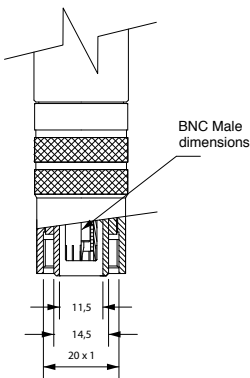
MECHANICAL FEATURES

ELECTRICAL FEATURES

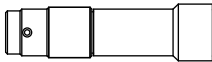
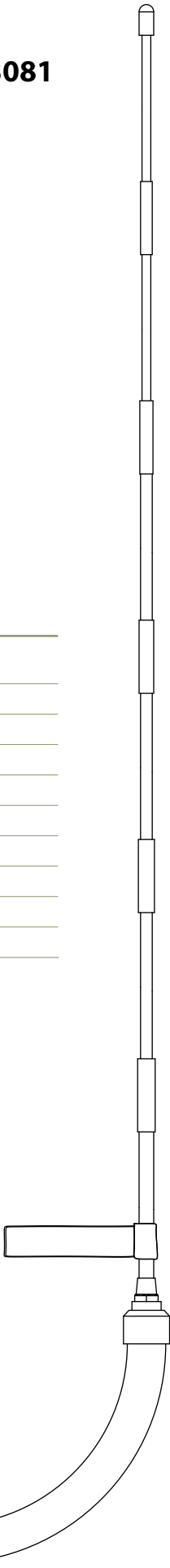
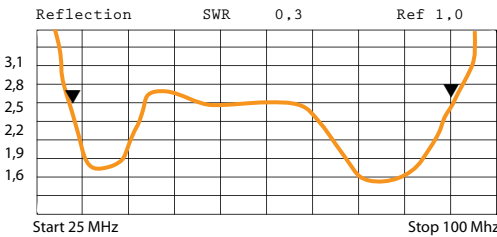
Length	2,76 mt (9")	Frequency	30 - 108 Mhz
Weight	1,6 kg	Impedance	50 Ohm
Sections	7	SWR	3,5 max
Bottom diameter	12 mm	Gain	from -5dbi to 0 dbi
Structure	Stainless Steel	Max Power	20 W
Finishing	IR powder paint	Polarization	Vertical
Colour	Green Nato IR	Horizontal Irradiation	360°
Treatments	Black galvanization	Vertical Irradiation	60°
Chromium plating	20m copper, 20m nickel, 5m chrome	Connector	See the picture
Working temperature	-35C +70 C	Lighting protection	Yes
		DC closed	Yes



SINCGARS



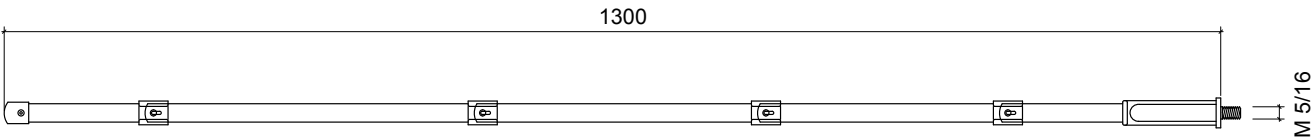
PR4G
F@stNet radio



BLADE
MANPACK PR4G F@stNet radio

code 13080

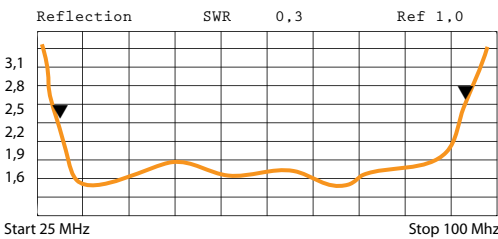
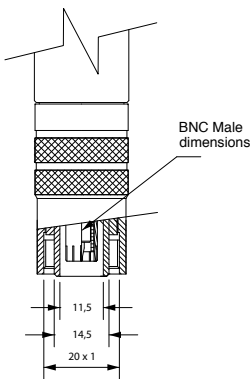
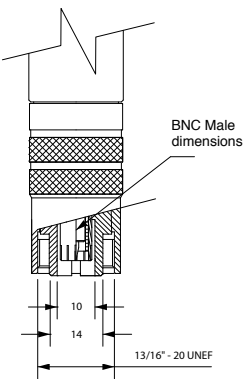
- Compatibility with F@stnet radio
- 50 Ohm connector not necessary ATU
- Elements in Stainless Steel
- Traction Corde in Stainless Steel
- Connection insert chrome plated bronze
- All antennas haven't magnetic components



MECHANICAL FEATURES

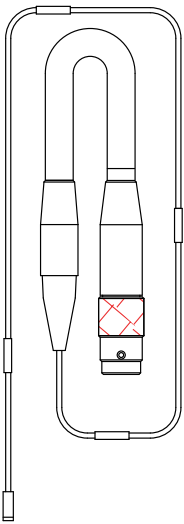
ELECTRICAL FEATURES

Length	1,5 mt (5")	Frequency	30 - 108 Mhz
Weight	1,2 kg	Impedance	50 Ohm
Sections	2	SWR	4,0:1 max
Whip material	stainless steel tape	Gain	from -10dbi to -1 dbi
Finishing	IR powder paint	Max Power	20 W
Colour	Green Nato IR	Polarization	Vertical
Chromium plating	20m copper, 20m nickel, 5m chrome	Connector	See the pictures
Working temperature	-35C +70 C	Lighting protection	Yes
		DC closed	No



SINGARS

PR4G
F@stNet radio



ENVIRONMENTAL SPECIFICATION

Goosenek semiflexible

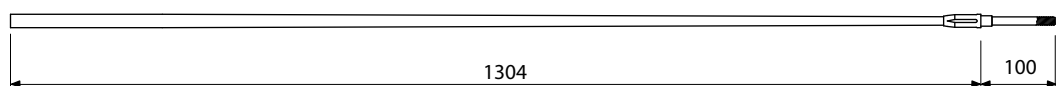
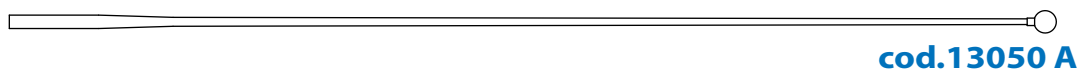
- Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
- Vibration resistance in accordance with MIL-STD 167-1
- Shock resistance in accordance with MIL-STD 810E
- Treatments and paintings in accordance with MIL-T-704K



VEHICULAR WHIP 1.6 - 60 Mhz

code 13050

- Compatibility with NATO communication system
- To connect to ATU
- Uper section protected from high voltage contact 10 KV
- Base protected from high voltage contact 10 KV
- Top whip 13050A
- Whip section 13050B
- Base 13050C



MECHANICAL FEATURES

Length	4,20 mt (9")
Weight	4,50 kg
Sections	3 + Base
Bottom diameter	18 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20µm copper, 20µm nickel, 5µm chrome
Working temperature	-55°C + 80°C
Wind resistance	200 Km/h 55 mt/s
Base torsion force	70 N at wind max speed

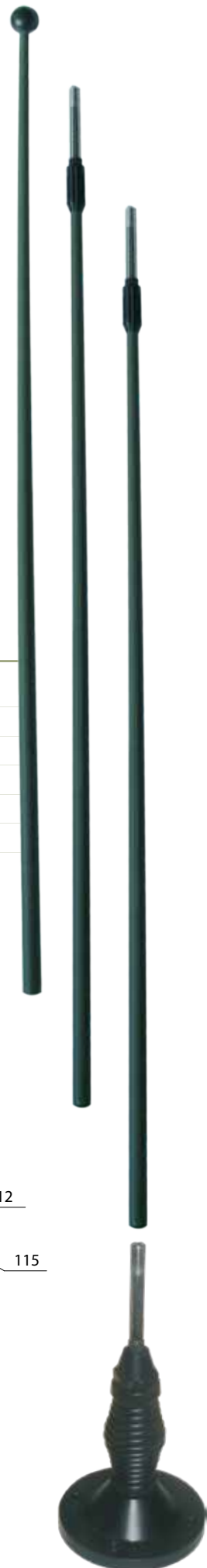
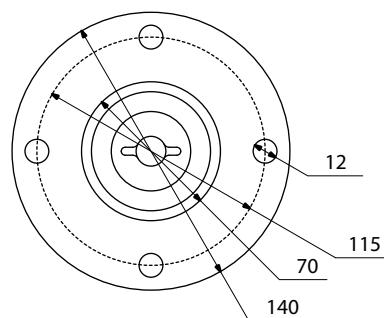
ELECTRICAL FEATURES

Frequency	1,6 - 30 Mhz with ATU
Max Power	400 W / HF 100W / VHF
Polarization	Vertical
Horizontal Irradiation	360°
Connection	6 mm bolt
Lighting protection	NO
DC closed	NO

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance
in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

To have more gain in low frequency 1.6 - 30 Mhz
is possible to add 2 more whip section (13050 B) to arrive to mt 6,8 antenna lenght.
To have more gain in high frequency 50 - 60 Mhz
is possible to remove one whip section (13050 B) to arrive to 2,90 mt. antenna lenght



- Vertical and NVIS configuration
- All the Contact Elements insulated 10 KV at antenna mount
- No Metal Parts out with antenna mounted



MECHANICAL FEATURES

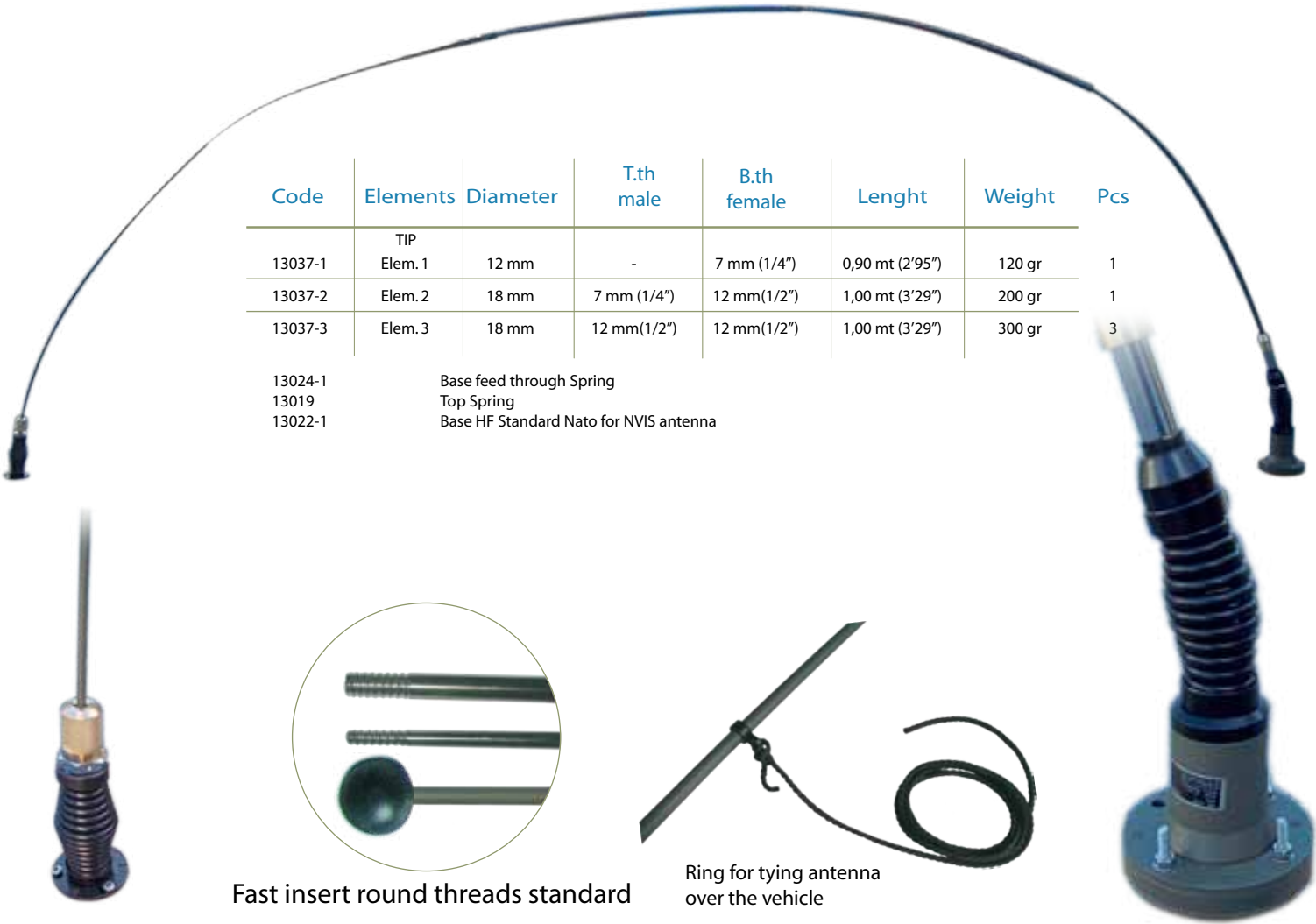
Length	4,20 mt
weight	
Antenna structure	Epoxy fiberglass
Ferrule	chrome plated brass
Finishing	Polyurethane paint
Colour	Green Nato IR
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C

ELECTRICAL FEATURES

Frequency TX	1,5 - 30 Mhz with ATU
Frequency RX	0,1 - 30 Mhz with RX transformer
Max Power	1000 W
Polarization	Vertical
Insulation Elements	10 KV
Insulation Base	10 KV
Max wind speed	150 Km/h

Code	Elements	Diameter	T.th male	B.th female	Lenght	Weight	Pcs
13037-1	TIP Elem. 1	12 mm	-	7 mm (1/4")	0,90 mt (2'95")	120 gr	1
13037-2	Elem. 2	18 mm	7 mm (1/4")	12 mm(1/2")	1,00 mt (3'29")	200 gr	1
13037-3	Elem. 3	18 mm	12 mm(1/2")	12 mm(1/2")	1,00 mt (3'29")	300 gr	3

13024-1 Base feed through Spring
13019 Top Spring
13022-1 Base HF Standard Nato for NVIS antenna



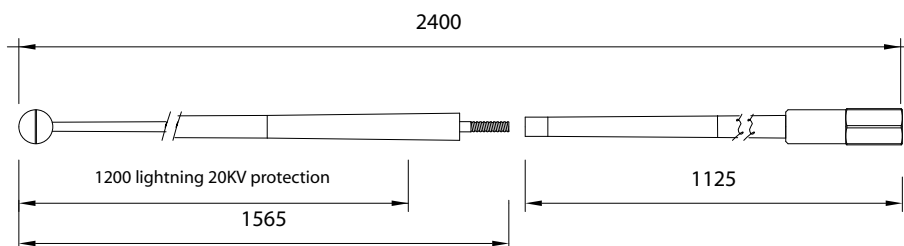
Fast insert round threads standard

Ring for tying antenna over the vehicle

TANK ANTENNA VHF VEHICULAR CENTER FED DIPOLE 30 - 88 Mhz

code 13035
AS / 3900 PRC

- Compatibility with NATO communication system (SINCGARS)
- 50 Ohm connector not necessary ATU
- Upper section protected from hy voltage contact 20 KV
- Extended Frequency 25 - 108 Mhz - option 13035-1
- GPS option RF exit 25 db amplifier 5 V supplier option 13035-2



MECHANICAL FEATURES

Length	2,80 mt (9") Typical
Weight	3,8 kg
Sections	3
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	200 Km/h
Base torsion force	50 N at wind max speed

ELECTRICAL FEATURES

Frequency	30 - 88 Mhz
Impedance	50 Ohm
SWR	Less 3,5 : 1 (see dia)
Bottom diameter	25 mm
Gain	from -5dbi to 2 db
Max Power	100 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	BNC Female
Lighting protection	Yes
DC closed	Yes

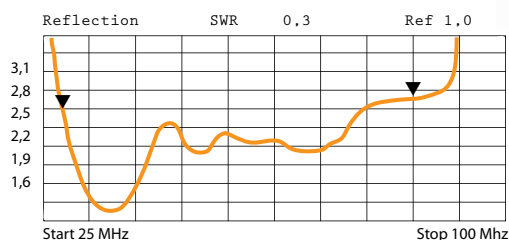
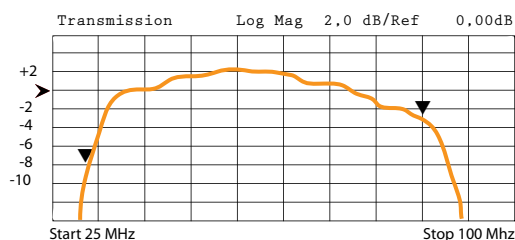
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

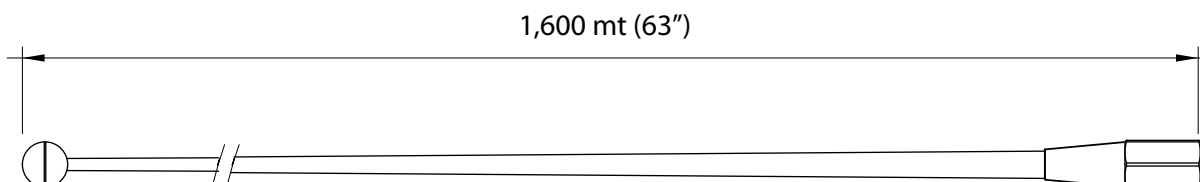
Treatments and paintings in accordance with MIL-T-704K



TANK ANTENNA VHF VEHICULAR 30 - 88 Mhz

code 13040
AS / 3916 PRC

- Compatibility with NATO communication system (SINCGARS)
- 50 Ohm connector not necessary ATU
- GPS option RF exit 25 db amplifier 5 V supplier option 13040-1



MECHANICAL FEATURES

Length	1,90 mt (7,5")
Weight	2,5 kg
Sections	2
Base Installation	Standard NATO
Finishing	IR paint
Colour	Green Nato IR
Whip	s/s 6mm tapered whip
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	7 N at wind max speed

ELECTRICAL FEATURES

Frequency	30 - 88 Mhz
Impedance	50 Ohm
Gain	from -7 dbi to 1 dbi
Max Power	70 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	BNC Female
Lighting protection	Yes
DC closed	Yes

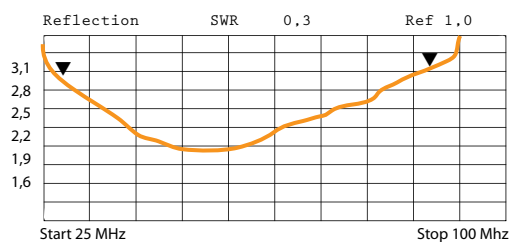
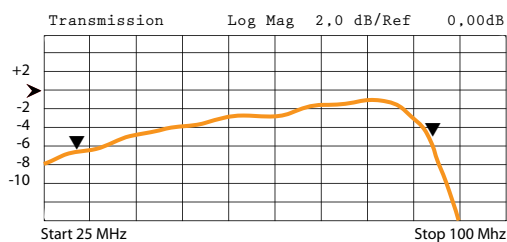
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

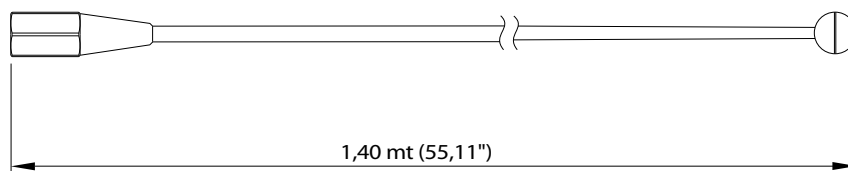
Treatments and paintings in accordance with MIL-T-704K



TETRA TANK ANTENNA 118 - 174 Mhz VHF VEHICULAR CENTER FED DIPOLE

code 13046

- 50 Ohm connector not necessary ATU
- Ground plane not necessary
- Standard NATO fixing base
- Flexible spring base
- GPS option RF exit 25 db amplifier 5 V supplier option 13046-1



MECHANICAL FEATURES

Length	1,70 mm (4')
Weight	2,5 kg
Sections	2
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour Standard	Green Nato IR 385
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	20 N at wind max speed

ELECTRICAL FEATURES

Frequency	118 - 174 Mhz
Impedance	50 Ohm
Gain	0 - 2 dbi
SWR	better than 3,5 : 1
Max Power	70 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	BNC Female
Lighting protection	Yes
DC closed	Yes

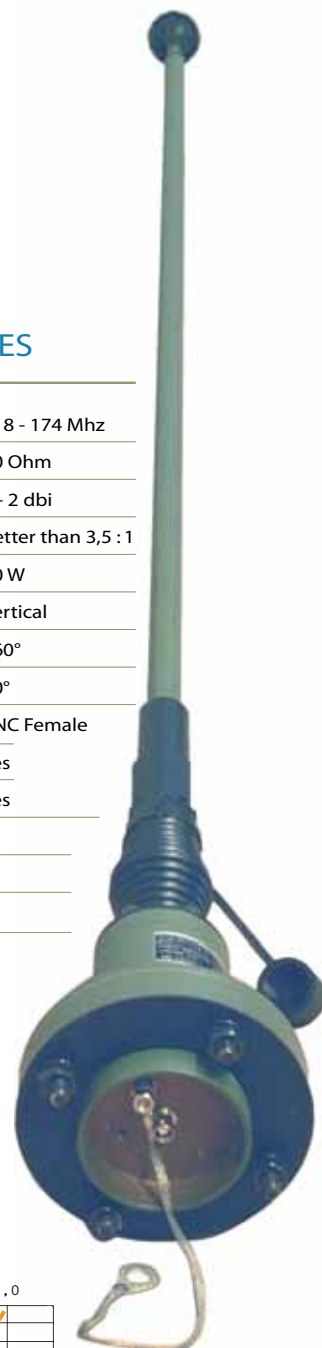
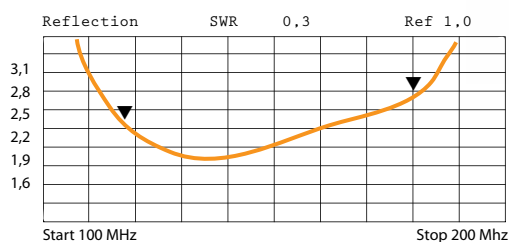
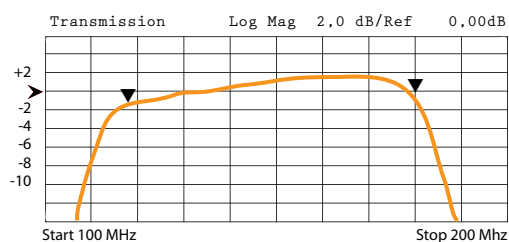
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

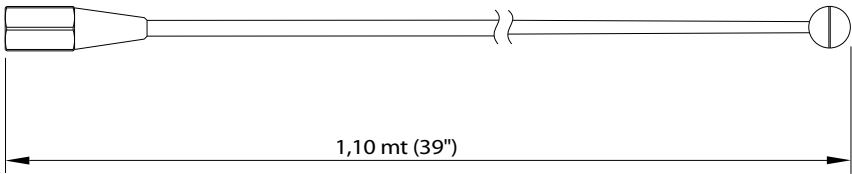
Treatments and paintings in accordance with MIL-T-704K



AIR - TANK ANTENNA 225 - 512 Mhz
VHF VEHICULAR CENTER FED DIPOLE

code 13039

- Connection from airplane to tank
- Tetra connection
- 50 Ohm connector not necessary ATU
- Ground plane not necessary
- Standard NATO fixing base
- Flexible spring base
- GPS option RF exit 25 db amplifier 5 V supplier option 13039-1



MECHANICAL FEATURES

Length	0,910 mm (35")
Weight	2,5 kg
Sections	2
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	10 N at wind max speed

ELECTRICAL FEATURES

Frequency	225 - 512 Mhz
Impedance	50 Ohm
Gain	2 dbi
SWR	better than 3,5 : 1
Max Power	70 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	N Female
Lighting protection	Yes
DC closed	Yes

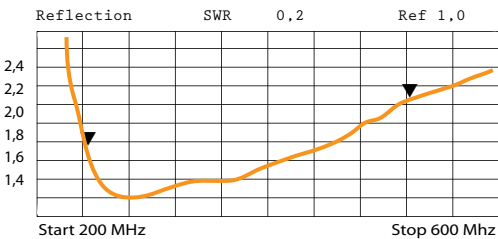
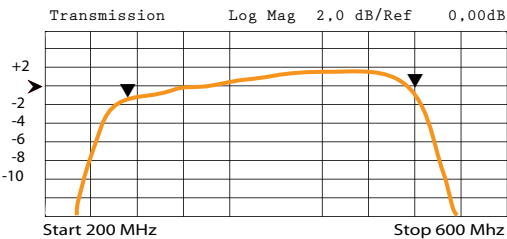
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

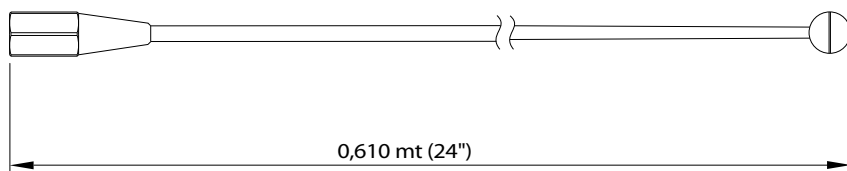
Treatments and paintings in accordance with MIL-T-704K



TETRA TANK ANTENNA 380 - 512 Mhz VHF VEHICULAR CENTER FED DIPOLE

code 13047
TETRA

- Airplane to tank connection
- Tetra connection
- 50 Ohm connector not necessary ATU
- Ground plane not necessary
- Standard NATO fixing base
- Flexible spring base
- GPS option RF exit 25 db amplifier 5 V supplier option 13047-1



MECHANICAL FEATURES

ELECTRICAL FEATURES

Length	0,910 mm (35")	Frequency	380 - 512 Mhz
Weight	2,5 kg	Impedance	50 Ohm
Sections	2	Gain	2 dbi
Bottom diameter	25 mm	SWR	better than 2,5 : 1
Base Installation	Standard NATO	Max Power	70 W
Structure	Epoxy fiberglass	Polarization	Vertical
Finishing	IR paint	Horizontal Irradiation	360°
Colour Standard	Green Nato IR	Vertical Irradiation	60°
Treatments	Black galvanization	Connector	N Female
Chromium plating	20m copper, 20m nickel, 5m chrome	Lighting protection	Yes
Working temperature	-35C +80C	DC closed	Yes
Wind resistance	150 Km/h		
Base torsion force	10 N at wind max speed		

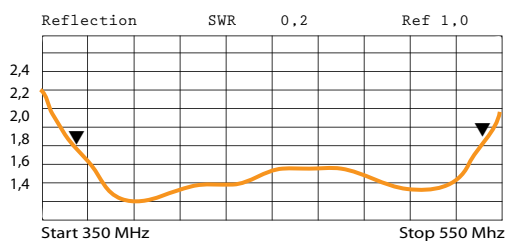
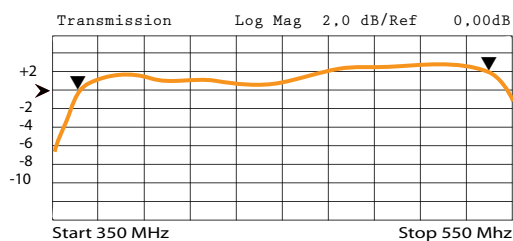
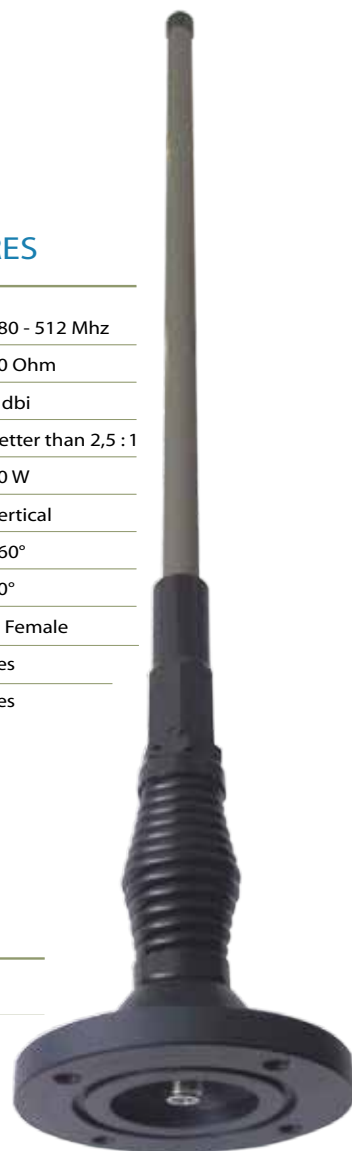
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

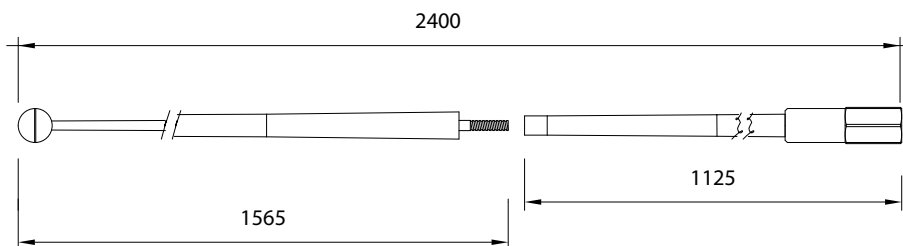
Treatments and paintings in accordance with MIL-T-704K



VERY LARGE BAND ANTENNA 30 - 512 Mhz VEHICULAR MONOPOLE

code 13055

- Airplane to tank connection
- 50 Ohm connector not necessary ATU
- Ground plane not necessary
- Standard NATO fixing base
- Flexible spring base
- GPS option RF exit 25 db amplifier 5 V supplier option 13055-1



MECHANICAL FEATURES

ELECTRICAL FEATURES

Length	2,80 mt (9") Typical	Frequency	30 - 512 Mhz
Weight	3,8 kg	Impedance	50 Ohm
Sections	3	SWR	Less 3,5 : 1 (see diagram)
Bottom diameter	25 mm	Bottom diameter	25 mm
Base Installation	Standard NATO	Gain	from -12dbi to 0 dbi
Structure	Epoxy fiberglass	Max Power	100 W
Finishing	IR paint	Polarization	Vertical
Colour	Green Nato IR	Horizontal Irradiation	360°
Treatments	Black galvanization	Vertical Irradiation	60°
Chromium plating	20m copper, 20m nickel, 5m chrome	Connector	BNC Female
Working temperature	-35C +80C	Lighting protection	Yes
Wind resistance	200 Km/h	DC closed	Yes
Base torsion force	50 N at wind max speed		

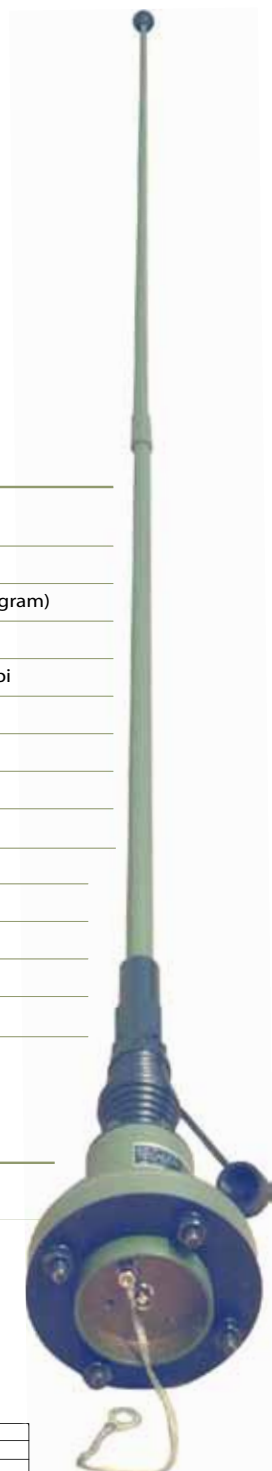
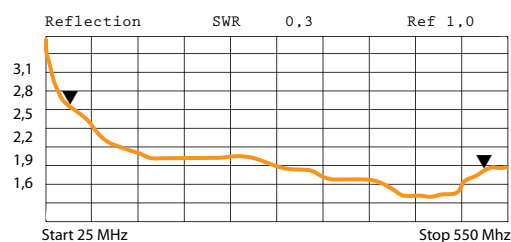
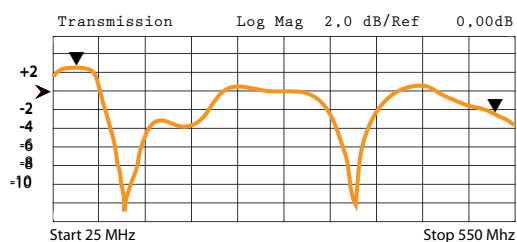
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

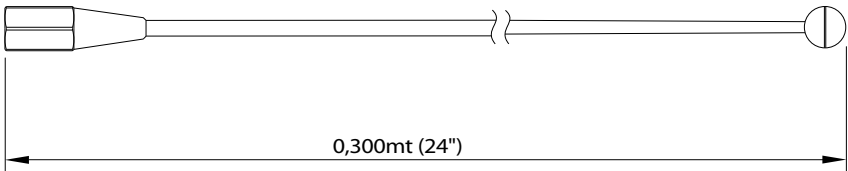
Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



- 806 - 900 Mhz Usa 2G and 4G frequency
 - 840 - 960 Mhz Europe 2G
 - 1710 - 1880 Mhz 3G DCS1800
 - 1850 - 1990 Mhz 3G PCS1900
 - 1920 - 2170 Mhz UMTS
 - Standard NATO fixing base
 - Flexible spring base
 - L1 GPS option RF exit 25 db amplifier 5 V supplier
- option 13190-1



5 BANDS

MECHANICAL FEATURES

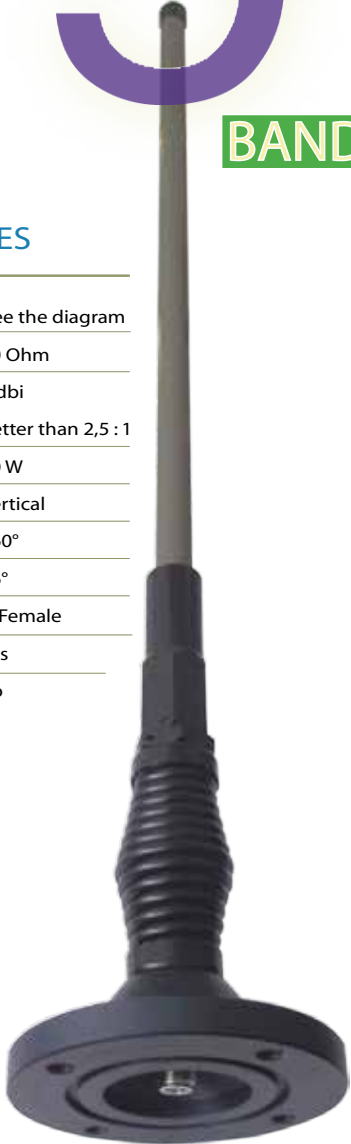
Length	0,510 mm (35")
Weight	1,5 kg
Sections	1
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour Standard	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	10 N at wind max speed

ELECTRICAL FEATURES

Frequency	see the diagram
Impedance	50 Ohm
Gain	5 dbi
SWR	better than 2,5 : 1
Max Power	70 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	36°
Connector	N Female
Lighting protection	Yes
DC closed	no

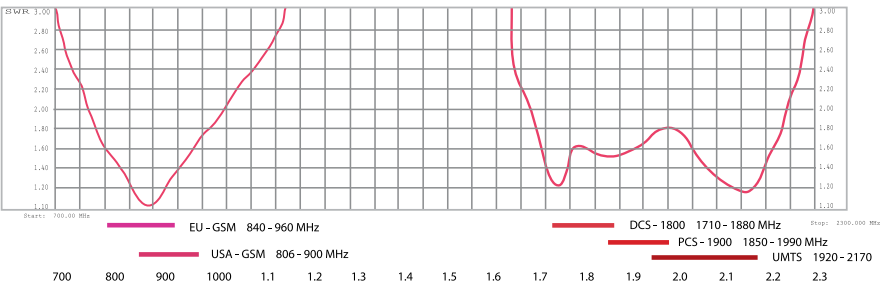


Small Version



ENVIRONMENTAL SPECIFICATION

- Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
- Vibration resistance in accordance with MIL-STD 167-1
- Shock resistance in accordance with MIL-STD 810E
- Treatments and paintings in accordance with MIL-T-704K

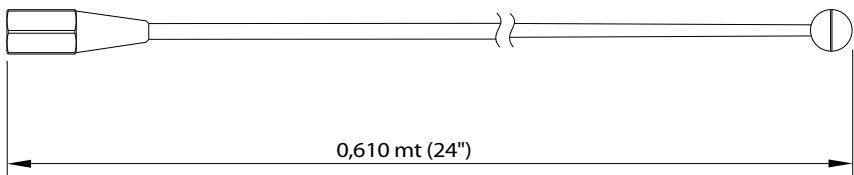


WIFI VEHICULAR ANTENNA

2000 - 2700 Mhz

code 13188

- LTE and Wifi bands
 - 50 Ohm connector not necessary ATU
 - Ground plane not necessary
 - Standard NATO fixing base
 - Flexible spring base
 - L1 GPS option RF exit 25 db amplifier 5 V supplier
- option 13188-1



MECHANICAL FEATURES

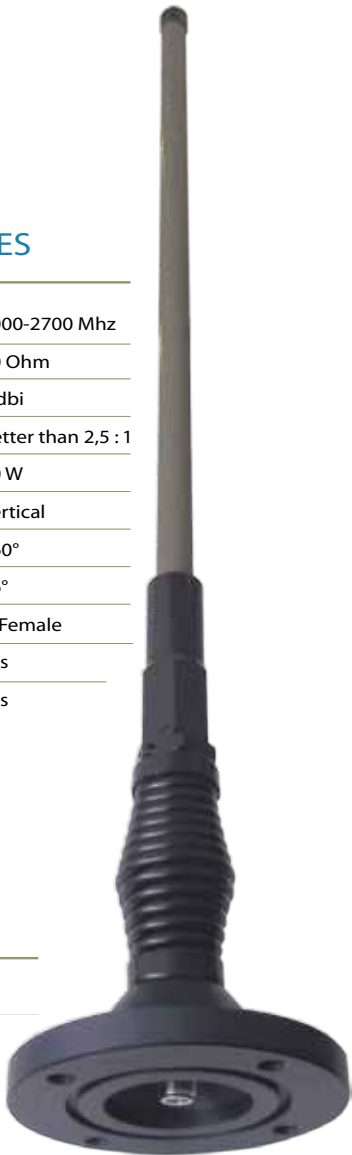
Length	0,50 mm (1,8")
Weight	2,5 kg
Sections	2
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour Standard	Green Nato IR
Treatments	Black galvanization
Chromium plating	20m copper, 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	10 N at wind max speed

ELECTRICAL FEATURES

Frequency	2000-2700 Mhz
Impedance	50 Ohm
Gain	5 dbi
SWR	better than 2,5 : 1
Max Power	70 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	36°
Connector	N Female
Lighting protection	Yes
DC closed	Yes

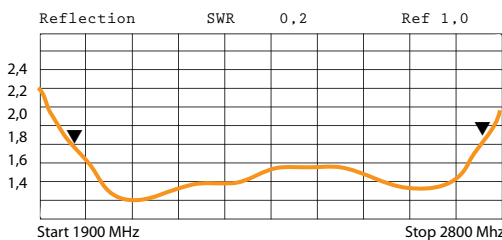
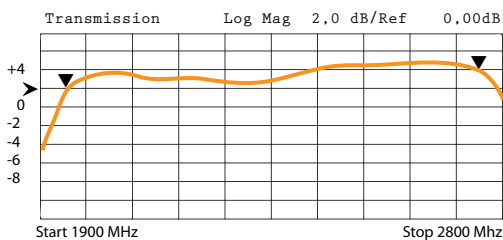


Short Version



ENVIRONMENTAL SPECIFICATION

- Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
- Vibration resistance in accordance with MIL-STD 167-1
- Shock resistance in accordance with MIL-STD 810E
- Treatments and paintings in accordance with MIL-T-704K



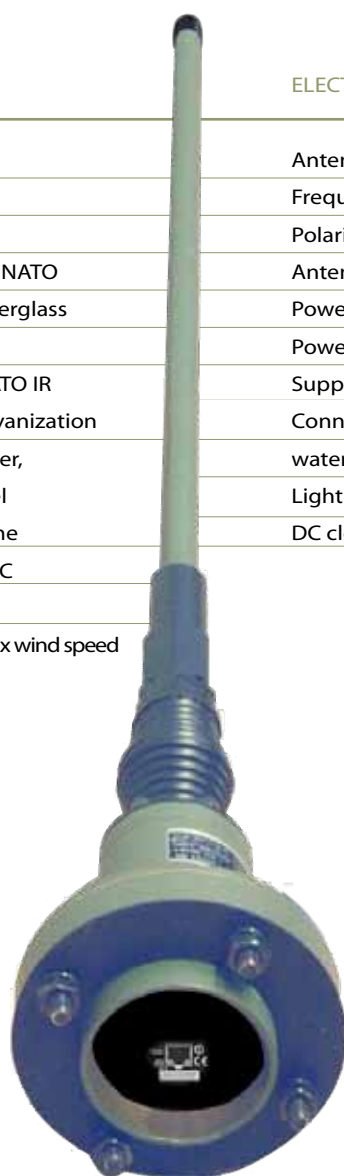
**RJ45 10/100 base T Ethernet IEEE802,3
with integrated transmitter****code 13288**

MECHANICAL FEATURES

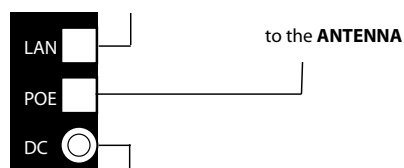
Length	1,0 mt
Weight	1,5 Kg
Sections	1
Base installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	Green NATO IR
Treatment	Black galvanization 20µ copper, 20µ nickel 5 µ chrome
Working temperature	-25 + 70° C
Wind resistance	200 Km h
Base trosion force	10 N at max wind speed

ELECTRICAL FEATURES

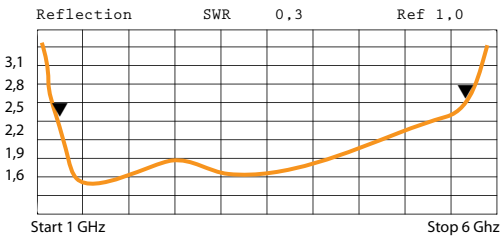
Antenna Type	12 db Collinear
Frequency	2,4 - 2,5 Mhz WIFI
Polarization	Vertical
Antenna Gain	12 db
Power RF	1 W
Power Supply	12 V DC feed through connector (POE)
Supply	7 W
Connector	RJ45 10/100 base T Ethernet IEEE802,3
waterproof protection	yes
Lighting protection	yes
DC closed	yes

**POE****12VDC**

HUB/SWITCH/PC or ROUTER ethernet



POWER SUPPLY 12 V DC



ELECTRICAL FEATURES

Frequency	1,0 - 6,0 Ghz
Antenna type	Biconical
Impedance	50 Ohm
Gain	2, 14 dbi
Polarization	Vertical
Power	50 W
Horizontal Irradiation	360°
Vertical Irradiation	60°
Conn	N female
Lightning protection	No
DC Closed	No

MECHANICAL FEATURES

Lenght	25 cm
Weight	50 gr
Bottom diameter	65 mm
Finishing	IR paint
Colour	Green NATO IR
Working temperature	-25 + 70° C
Wind resistance	150 Km h
Mounting	S/S bracket

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K

NAVY SERIES

- Standard Sincgar frequency
- Especially made for Marine USA
- Extended frequency 25-108 Mhz cod 13056-1

MECHANICAL FEATURES

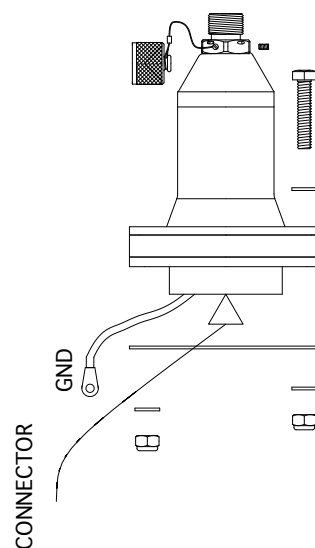
Length	2,80 mt (9") Typical
Weight	3,8 kg
Sections	3
Bottom diameter	25 mm
Base Installation	Standard NATO
Structure	Epoxy fiberglass
Finishing	IR paint
Colour	26373 Fed-STD595-B
Chromium plating	20m copper 20m nickel, 5m chrome
Working temperature	-35C +80C
Wind resistance	200 Km/h
Base torsion force	50 N at wind max speed

ELECTRICAL FEATURES

Frequency	30 - 88 Mhz
Impedance	50 Ohm
Bottom diameter	25 mm
Gain	from -5dbi to 2 dbi
Max Power	100 W
Polarization	Vertical
Horizontal Irradiation	360°
Vertical Irradiation	60°
Connector	N Female
Lighting protection	Yes
DC closed	Yes

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



GENERAL MECHANICAL FEATURES

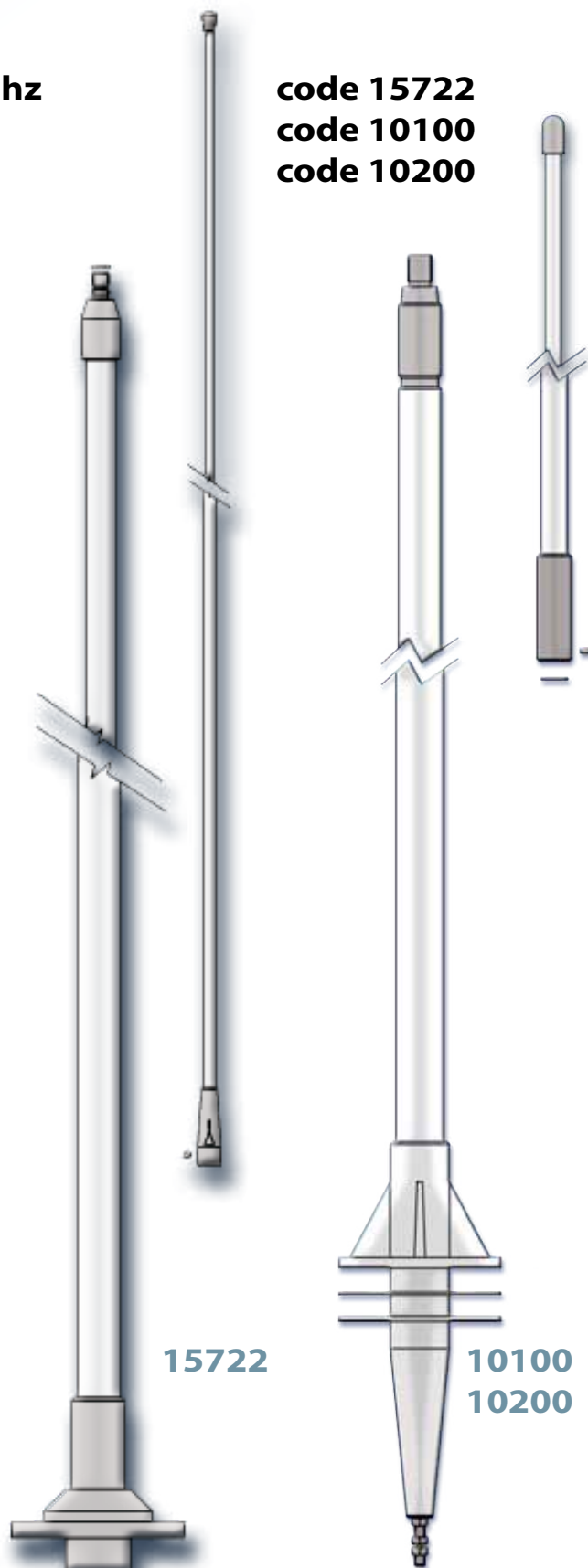
Antenna structure:	Epoxy fiberglass
Finishing:	Polyurethane paint
Colour:	White RAL 9000 (standard) grey RAL 7001 (option)
Irradiation element material:	Brass
Ferrule material:	Chrome plated brass
Chrome plated:	20µm copper, 20µm nickel, 5µm chrome
Working temperature:	-35°C +80°C
Max wind resistance:	150 Km/h

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E

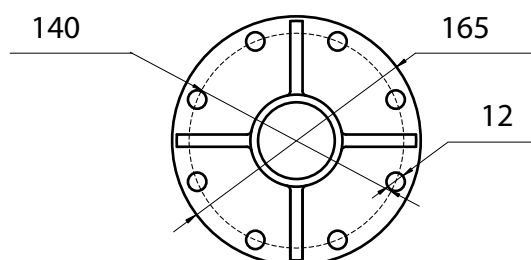
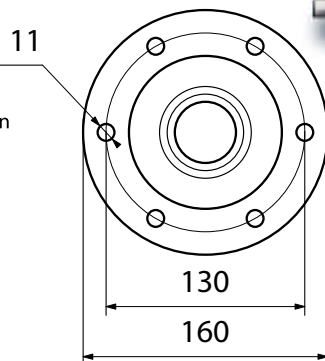
ELECTRICAL FEATURES

Frequency:	1,6 - 30 Mhz transmission ATU 0,15 - 30 Mhz reception with transformer
Polarization:	Vertical
Horizontal irradiation:	360°
Connection:	TX with high insulation cable RX with coax cable RG-58 or RG-213
Connector	8 mm bolt

Code	10100	10200	15722
Model	1000P	850P 2P	700P 2P
Fiberglass Length	10,00 mt	8,50 mt	7,00 mt
Electrical Length	10,00 mt	8,50 mt	7,00 mt
Max power	2000W	1500W	1000W
Weight	14 Kg	12 Kg	7 Kg
Sections	2	2	2
Bottom diameter	52 mm	52 mm	40 mm
Length bottom section	5,40 mt	4,80 mt	4,00 mt
Length top section	4,90 mt	4,00 mt	3,00 mt
Base torsion force	400 N	350 N	150 N
Package size cm	539 x 21 x 21	465 x 21 x 21	403 x 21 x 21


Flange code 15722


15.120
NAVY - T
TRANSFORMER CONNECTION
 Frequency: 0,15 - 30 Mhz reception
 Connection: PL female
 Ground: side bolt
 Lightning protection gas arrester



GENERAL MECHANICAL FEATURES

Antenna structure:	Epoxy fiberglass
Finishing:	Polyurethane paint
Colour:	White RAL 9000 (standard) grey RAL 7001 (option)
Irradiation element material:	Brass
Ferrule material:	Chrome plated brass
Chrome plated:	20µm copper, 20µm nickel, 5µm chrome
Working temperature:	-35°C +80°C
Max wind resistance:	150 Km/h

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

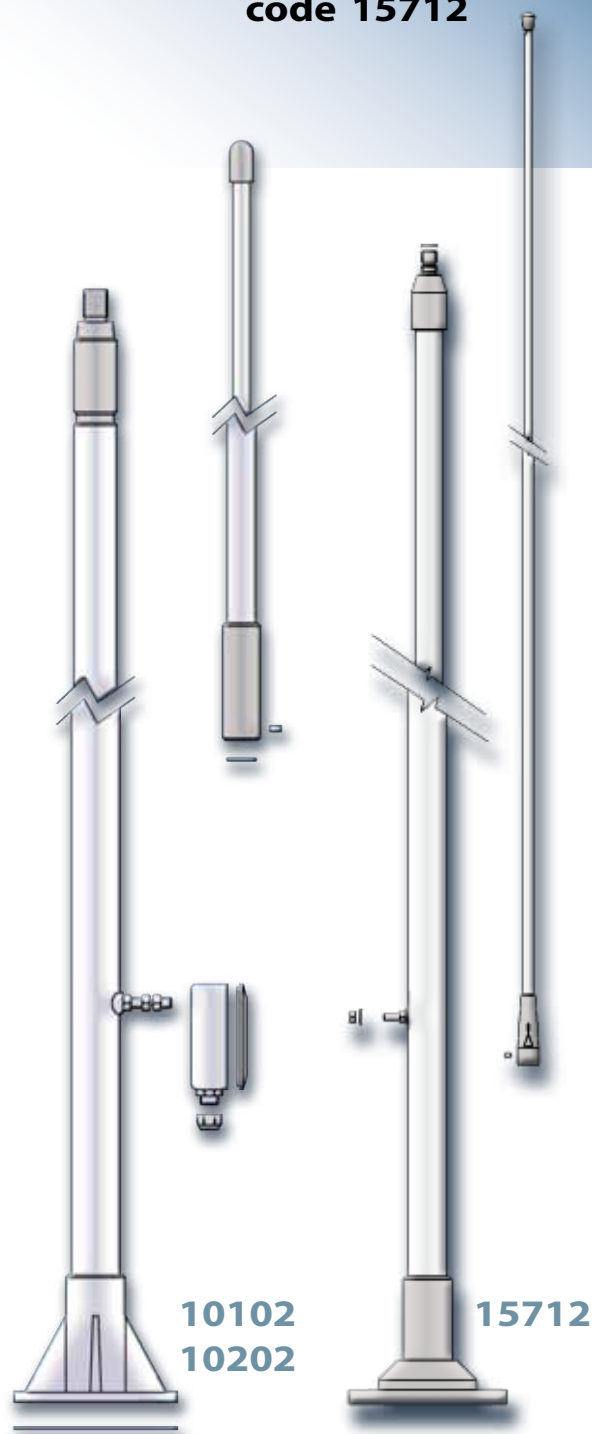
Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

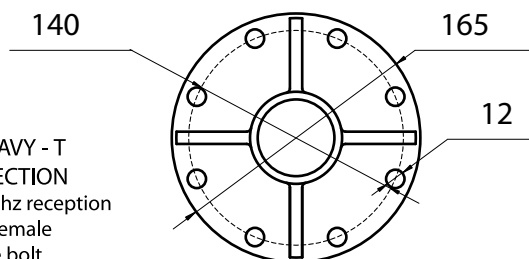
ELECTRICAL FEATURES

Frequency:	1,6 - 30 Mhz transmission ATU 0,15 - 30 Mhz reception with transformer
Polarization:	Vertical
Horizontal irradiation:	360°
Connection:	TX with high insulation cable RX with coax cable RG-58 or RG-213
Connector	8 mm bolt

Code	15712	10102	10202
Model	700UL 2P	1000UL	850UL
Fiberglass Length	7,00 mt	10,00 mt	8,50 mt
Electrical Length	6,70 mt	9,6 mt	8,10 mt
Max power	1000W	1500W	1500 W
Weight	7kg	13 Kg	13 Kg
Sections	2	2	2
Bottom diameter	40 mm	52 mm	52 mm
Length bottom section	4,00 mt	5,10 mt	4,50 mt
Length top section	3,00 mt	4,90 mt	4,00 mt
Base torsion force	150 N	250 N	350 N
Package size cm	398 x 21 x 21	514 x 21 x 21	440 x 21 x 21

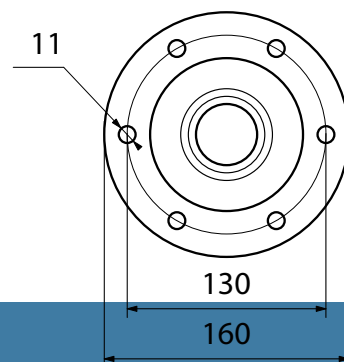


15.120
NAVY - T
TRANSFORMER CONNECTION
Frequency: 0,15 - 30 Mhz reception
Connection: PL female
Ground: side bolt
Lightning protection gas arrester



Flange code 10.102- 10.202

Flange code 15712



GENERAL MECHANICAL FEATURES

Antenna structure:	Epoxy fiberglass
Finishing:	Polyurethane paint
Colour:	White RAL 9000 (standard) grey RAL 7001 (option)
Irradiation element material:	Brass
Ferrule material:	Chrome plated brass
Chrome plated:	20µm copper, 20µm nickel, 5µm chrome
Working temperature:	-35°C +80°C
Max wind resistance:	150 Km/h

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

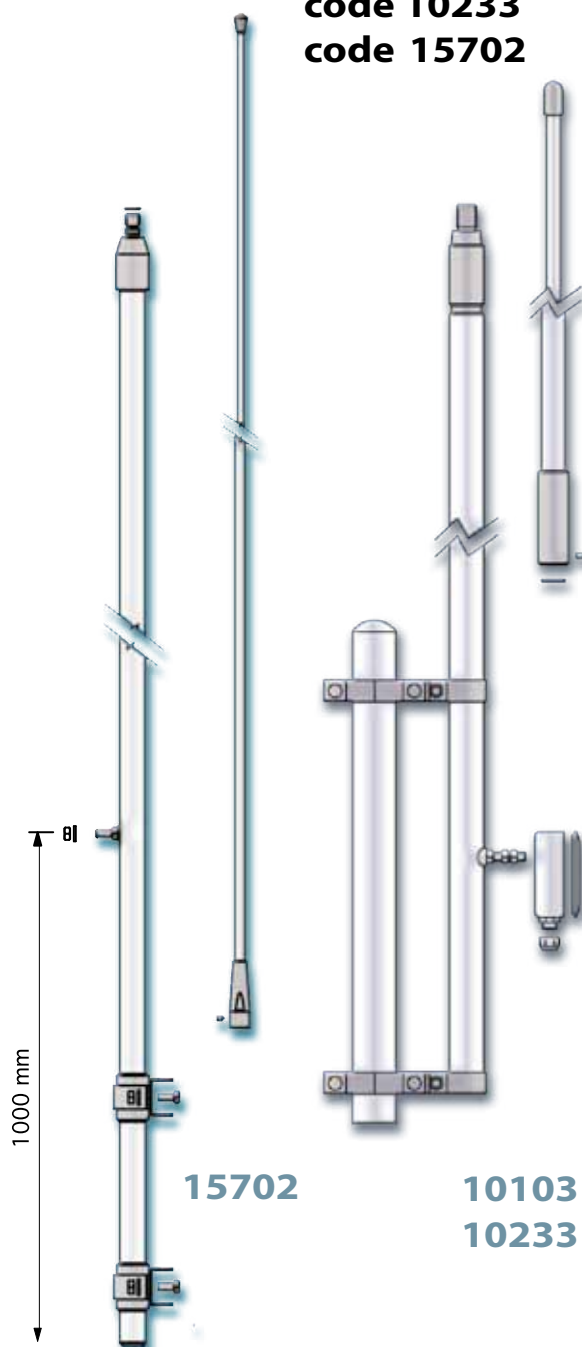
Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

ELECTRICAL FEATURES

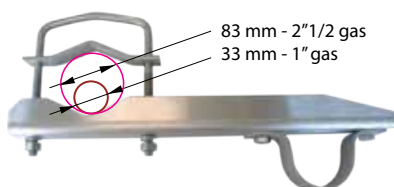
Frequency:	1,6 - 30 Mhz transmission ATU 0,15 - 30 Mhz reception with transformer
Polarization:	Vertical
Horizontal irradiation:	360°
Connection:	TX with high insulation cable RX with coax cable RG-58 or RG-213
Connector	8 mm bolt

Code	10103	10233	15702
Model	1000 CL	850CL	700 NAVY 2P
Fiberglass Length	10,00 mt	8,50 mt	7,00 mt
Electrical Length	9,60 mt	8,10 mt	6,00 mt
Max power	1500W	1000W	1000W
Weight	13 kg	11 Kg	6 Kg
Sections	2	2	2
Bottom diameter	52 mm	52 mm	40 mm
Length bottomn section	5,10 mt	5,10 mt	4,00 mt
Length top section	4,90 mt	4,50 mt	3,00 mt
Base torsion force	400 N	200 N	33/70 N (1)
Package size cm	512 x 21 x 21	445 x 21 x 21	398 x 21 x 21



Request threads 1"-14
for mount also on base

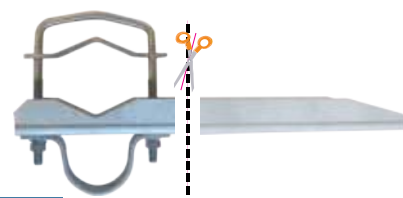
(1) (Depend from bracket distance)



FIXING CLAMPS FOR CODE 15702

Material	stainless steel
standoff	350 mm
Min mast dia	33 mm - 1" gas
Max mast dia	83 mm - 2 1/2 gas
2 pcs supplied with antenna (standard)	

10.122 RX - T - 40
WATERPROOF COAX CONNECTION
BOX WITH TRANSFORMER
Frequency: 0,15 - 30 Mhz reception
Connection: coax cable
Ground: side bolt
Lightning protection: gas arrester



MILITARY MARINE series

CL Series Navy mast mount

1,6 - 30 Mhz

code 15852
code 15752
code 15552

GENERAL MECHANICAL FEATURES

Antenna structure:	Epoxy fiberglass
Finishing:	Polyurethane paint
Colour:	White RAL 9000 (standard) grey RAL 7001 (option)
Irradiation element material:	Brass
Ferrule material:	Chrome plated brass
Chrome plated:	20µm copper, 20µm nickel, 5µm chrome
Working temperature:	-35°C +80°C
Max wind resistance:	150 Km/h

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

ELECTRICAL FEATURES

Frequency:	1,6 - 30 Mhz transmission ATU 0,15 - 30 Mhz reception with transformer
Polarization:	Vertical
Horizontal irradiation:	360°
Connection:	TX with high insulation cable RX with coax cable RG-58 or RG-213
Connector	8 mm bolt

Code	15782	15752	15552
Model	800CL 2P	700CL 2P	5,50CL 2P
Fiberglass Length	8,00 mt	7,00 mt	5,50 mt
Electrical Length	7,70 mt	6,70 mt	5,0 mt
Max power	1000W	800W	
Weight	8kg	7 Kg	7 Kg
Sections	2	2	2
Bottom diameter	40 mm	40 mm	40 mm
Length bottom section	4,00 mt	4,00 mt	3,00 mt
Length top section	4,00 mt	3,00 mt	2,50 mt
Base torsion force	180 N	150 N	85 N
Package size cm	400 x 21 x 21	396 x 21 x 21	305 x 21 x 21



15.120 NAVY - T
TRANSFORMER CONNECTION
Frequency: 0,15 - 30 Mhz reception
Connection: PL female
Ground: side bolt
Lightning protection gas arrester



VHF CL RADOME ANTENNAS

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket

Code	Frequency	gain	V irradiation	Antenna type	Max power	Lenght	radom dia	Weight	Load wind 150 km/h
10098	118-136 Mhz	2 dbi	78°	Dipole	50 W	1,70 mt	21 mm	3,5 Kg	60 N
10099	156 - 162 Mhz	2 dbi	78°	Dipole	50 W	1,30 mt	21 mm	2,0 Kg	43 N
10097	147-162 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,50 mt	28 mm	5,0 Kg	120 N
10072	380-435 Mhz	5 dbi	30°	2 el Collinear	100 W	1,50 mt	21 mm	4,5 kg	65 N TETRA
10071	400-470 Mhz	5 dbi	30°	2 el. Collinear	100 W	1,20 mt	21 mm	4,5 kg	65 N NAVY UHF

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001 Green Nato 383
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	see the table
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	see the table
Power	see the table
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	see the table
Connector	PL female option VHF N female: Page 40
Lightning protection	Yes
DC closed	Yes

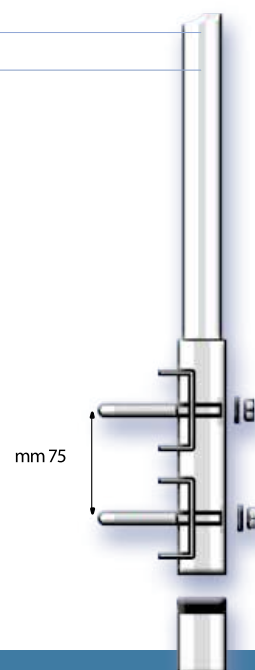
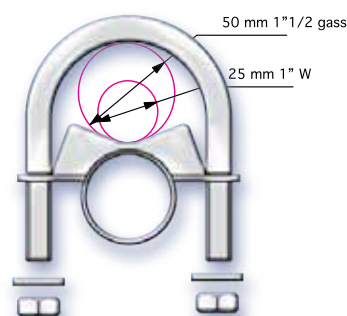
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



VHF TU RADOME ANTENNAS

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket

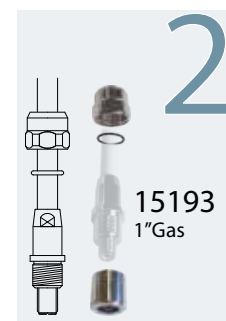
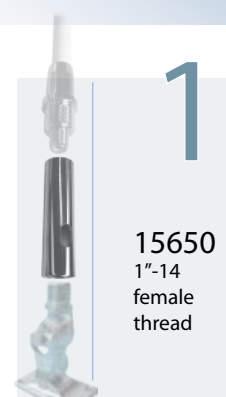
suggestion of mounting:

Code	Frequency	Lenght	radom dia	Weight	Load wind 150 km/h	Band	Connector
15118	118-136 Mhz	1,50 mt	17 mm	1,0 kg	26 N	AIR BAND	PL
15209	156-163 Mhz	1,30 mt	17 mm	1,0 Kg	26 N	Marine Band	PL
15210	144-162 Mhz	1,30 mt	17 mm	1,0 kg	26 N	Marine Band	N
15300	300-340 Mhz	0,80 mt	17 mm	0,8 kg	15 N	River Service	N
15138	385-435 Mhz	0,80 mt	17 mm	0,8 kg	15 N	TETRA	N
15139	400-435 Mhz	0,60 mt	17 mm	0,7 Kg	15 N	UHF	N or PL
15339	435-470 Mhz	0,60 mt	17 mm	0,7 Kg	15 N	UHF	N or PL
14077	400-470 Mhz	0,60 mt	20 mm	07, Kg	25 N	UHF Large Band	N

MECHANICAL FEATURES

Length	see the table	Frequency	see the table
Weight	see the table	Antenna	end feed dipole
Sections	1	S.W.R.	< 1,5
Radome	epoxy fiberglass	Impedance	50 Ohm
Fitting	See the drawing	Gain	2 dbi
Brackets material	Chrome plated brass	Power	100 W
Structure	Epoxy fiberglass	Polarization	Vertical
Finishing	Polyurethane paint	Horizontal irradiation	360°
Colour	White RAL 9000 Grey RAL 7001	Vertical irradiation	78°
Irradiation element material	Brass	Connector	See the table
Working temperature	-35°C +80°C	Lightning protection	Yes
Max wind resistance	150 Km/h	DC closed	Yes
Base torsion force	see the table		

ELECTRICAL FEATURES



N female connector

more type of mounting
at page 39

1204 - connector cover cap
supplied with all antennas



ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E
 Treatments and paintings in accordance with MIL-T-704K

VHF/AIS/GPS

Code 15114

MECHANICAL FEATURES

Lenght	1,20 mt
Weight	0,5 Kg
Bottom diameter	20 mm
Antenna structure	Epoxy Fiberglass
Finishing	Polyhurethane paint
Colour	White RAL 9000
Irradiation elements material	Brass
Ferrule Material	Chrome plated brass
Working temperature	-50C +60C
Wind resistance	150 Km/h
Mounting	1" gass pipe mount bolt 1"/14th male thread

ELECTRICAL FEATURES

	VHF Antenna	GPS Antenna
Frequency	156 - 163 Mhz	1575.42 Mhz
Antenna type	side feed dipole collinear	Quadrifilar helix
Impedance	50 Ohm	
SWR	seediagram	1:1
Max power	100 W	reception
Gain	3 db	+25dbic (amplifier)
Polarization	Vertical	RHCP
Noise figure		1,2 db
Imput 3rd intercept point		-10 dbm
Antenna connector	N female	
Max cable lenght RG-58	20 mt max	
Max cable lenght RG-213	40 mt max	

Power GPS Antenna: 2,8-3,3 V DC feed through the antenna connector 15 mA

GPS: 3,3 - 6 V DC feed through the GPS connector 20 mA

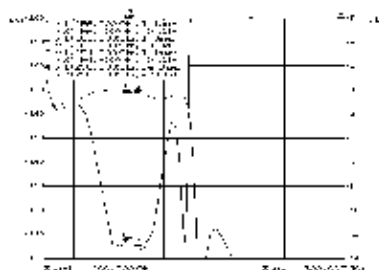
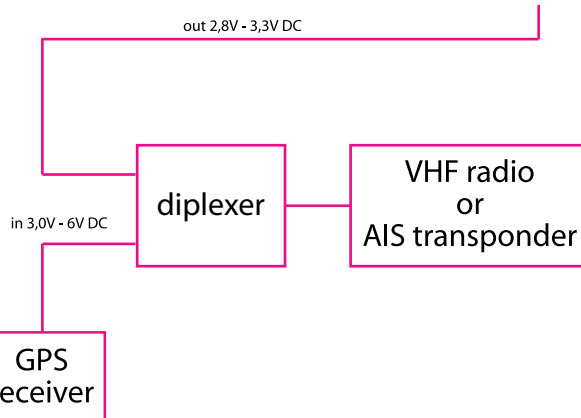


diplexer

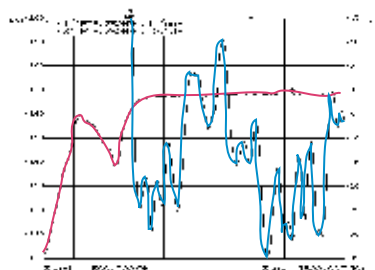


1,20 mt

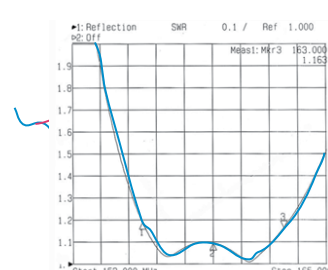
15114



VHF or AIS



GPS



ANTENNA SWR

HELMET PORTABLE GPS

code 13113

MECHANICAL FEATURES

Lenght	64 mm
Diameter	18 mm
Weight	25 gr
Connection	3 mt coax 3,5 mm cable
Connector	Male SMA or SMB or TNC or On Request
Fixing	Velcro band
Working temperature	-50C +60C

ELECTRICAL FEATURES

Frequency	1575.42 Mhz L1
Antenna type	Quadrifillar Helix
Impedance	50 Ohm
Gain	+25dbic (amplifier)
Polarization	RHCP
Power	3-6 volts DC feed through connector + center pin
Supply	15 mA
Noise figure	1,2 db
Imput 3rd intercept point	-10 dbm
Antenna connector	N female
Max cable lenght RG-58	20 mt max
Max cable lenght RG-213	40 mt max



NAVY GPS ANTENNA

code 15113

MECHANICAL FEATURES

Lenght	12 cm
Weight	50 gr
Bottom diameter	90 mm
Connector	Female N Connector
Working temperature	-50C +60C

Mounting Navy version: 1"-14th female or 1" Gass Bolt



Mounting suggestion:



NAVY SERIES MOUNT

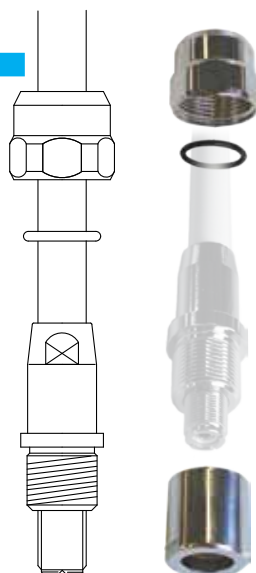
1



15650 - TUBULAR SUPPORT

Material: Chrome plated brass
Lenght: 110 mm
Mounting : 1"14 female thread
Hole: for cable RG-213

2



15193 - 1" GAS MOUNT

Material: Chrome plated brass
Bolt: 1" gas female
Including: O ring
Precise insertion adapter

3



15533 - MAST L BRACKET

Material: Stainless steel
Including: Mounting bolt

4



for tube from dia 10 to dia 50 mm

620-2 LARGE BRACKET

Material: Stainless steel
Including: 1 Mounting bolt
Washer 1"-14

5

1"-14 female thread



1"-14 female thread



15630 - BIG SPRING

material: Stainless steel
Mounting: 1"-14 female thread

6



15195 - BOLT 1"-14 thread female

Material: chrome plated brass

NAVY SERIES MOUNT

7

1"-14 female thread



**NEW
PRODUCT**

15197
1"-14 FEMALE THREAD MOUNT
Material Composite
Hardware Stainless Steel
Weight 0,7 Kg
Mast dia min 33mm (1") 66 mm (2")

**NEW
PRODUCT**

15198
1"-11 MALE THREAD MOUNT
Material Composite
Hardware Stainless Steel
Weight 0,7 Kg
Mast dia min 33mm (1") 66 mm (2")

8

1"G-11 Male thread



9

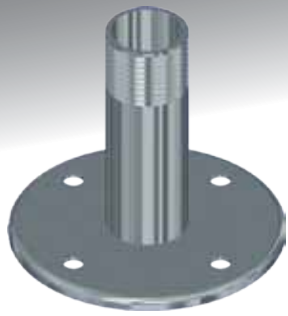
1"G-11 Male thread



**NEW
PRODUCT**

15199
1"-11 MALE THREAD MOUNT
Material Stainless Steel
Hardware Stainless Steel
Weight 1,4 Kg
Mast dia min 33mm (1") 50 mm (1-3/4")

1" GAS MOUNT



00503
S/S deck mount
for TU antennas
1"Gas standard



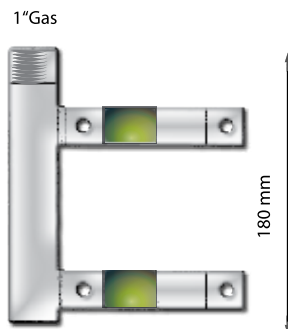
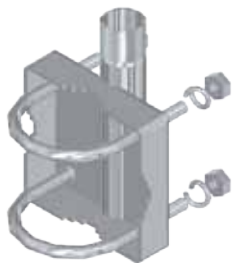
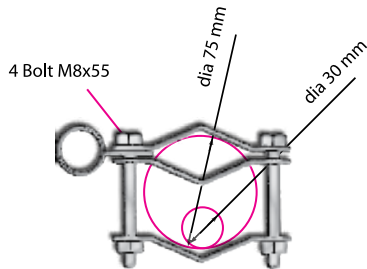
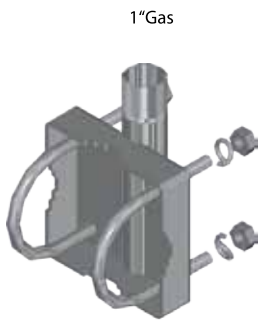
00504
PIPE MOUNT
S/S tube 1"Gas standard
To weld on structure
stainless steel



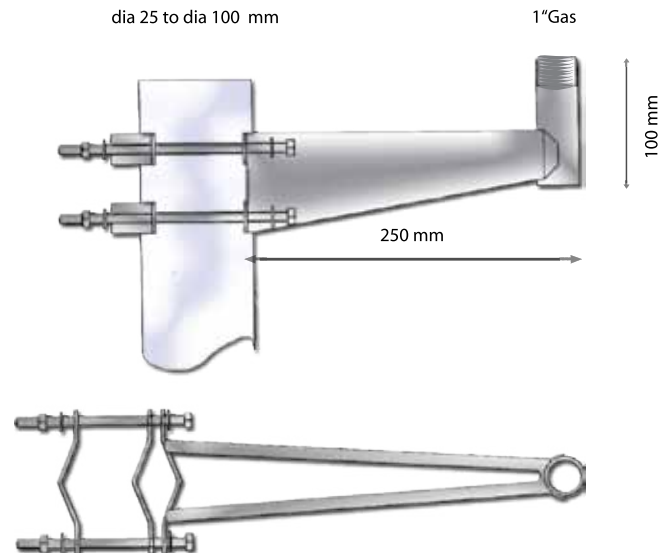
00502
ADAPTER 4 WAY MOUNT
Adapter 1"Gas standard
to 1"-14 female
Chrome plated brass

00617
Rail BRACKET
S/S Bracket 1"Gas threaded tube
for TU and Navy Mount
stainless steel

15651
PIPE BRACKET
S/S tube
for GP1 - 1037 mount



11505
PIPE BRACKET
S/S Bracket 1"Gas standard
mout on pipe from 1"G up to 2"1/2G
stainless steel aisi 304



00505
STAND OFF BRACKET
S/S Bracket 1"Gas standard
mout on pipe from 1"G up to 2"1/2G
stainless steel

LAND DIVISION

TETRA

P M R

LARGE BAND COAXIAL DIPOLE

- Large Band
- Waterproof construction
- Hard construction

code	11072	68 - 85 Mhz
	11044	108 - 156 Mhz
	11075	136 - 174 Mhz
	11076	220 - 400 Mhz

MODELS

Code	11072	11044	11075	11076
Frequency	68-85 Mhz	108-144 Mhz	136-174 Mhz	220-400 Mhz
Length Size L	2,00 mt	1,30 mt	1,00 mt	0,6 mt
Radom diameter	120 mm			
Weight	8 Kg	5 Kg	4,00 Kg	2,5 Kg
Wind Load (160 Km/h)	185 N	120 N	95 N	60 N

MECHANICAL FEATURES		ELECTRICAL FEATURES	
Fitting	See the drawing	Antenna	Center fed coaxial dipole
Antenna structure	Aluminium	SWR	<2,00
Radom tube	Epoxy fiberglass	Gain	0 db on 1/2 wave dipole
Finishing	Polyurethane paint	Max power	100 W at 50°C
Colour	Grey RAL 7001		200 W AT 35°C
Irradiation element material	Aluminium	Polarization	Vertical
Mounting	4 bolts M 10 on dia 100	Horizontal irradiation	360°
	on standard flange dia 130	Vertical irradiation	78°
Hardware	Stainless steel A2	Connection	N female base bottom exit
Working temperature	-35°C +80°C	Ground	Yes
Max wind resistance	350 Km/h	Lightning protection	Yes Bolts

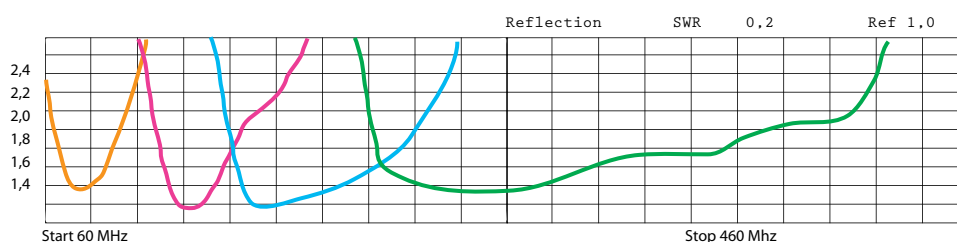
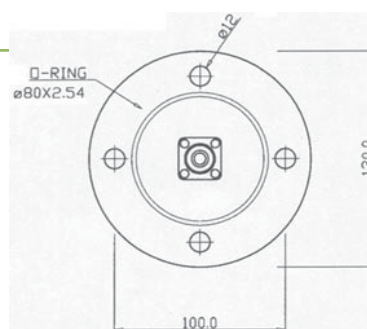
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



LARGE BAND COAXIAL DIPOLE

- Large Band
- Waterproof construction
- Hard construction

code	11144	108 - 156 Mhz	5.5 dbi
	11175	136 - 174 Mhz	5.5 dbi
	11176	220 - 400 Mhz	5.5 dbi
	11276	220 - 400 Mhz	8.5 dbi

MODELS

Code	11144	11175	11176	11276
Frequency	108-136 Mhz	136-174 Mhz	220-400 Mhz	220-400 Mhz
Gain	5,5 db	5,5 dbi	5,5 dbi	8,5 dbi
Vertical Irradiation	38°	38°	38°	18°
Length Size L	3,00 mt	2,40 mt	1,50 mt	3,00 mt
Radom diameter	120 mm			
Weight	12,0 Kg	10,0 Kg	6,0 Kg	12,0 Kg
Wind Load (160 Km/h)	250 N	200 N	100 N	250 N

MECHANICAL FEATURES		ELECTRICAL FEATURES	
Fitting	See the drawing	Antenna	Center fed coaxial dipole
Antenna structure	Aluminium	SWR	<2,00
Radom tube	Epoxy fiberglass	Gain	see the table
Finishing	Polyurethane paint	Max power	100 W at 50°C
Colour	Grey RAL 7001		200 W AT 35°C
Irradiation element material	Aluminium	Polarization	Vertical
Mounting	4 bolts M 10 on dia 100	Horizontal irradiation	360°
	on standard flange dia 130	Vertical irradiation	see the table
Hardware	Stainless steel A2	Connection	N female base bottom exit
Working temperature	-35°C +80°C	Ground	Yes
Max wind resistance	350 Km/h	Lightning protection	Yes Bolts

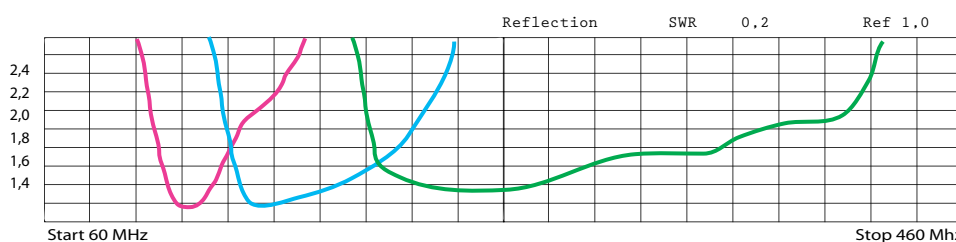
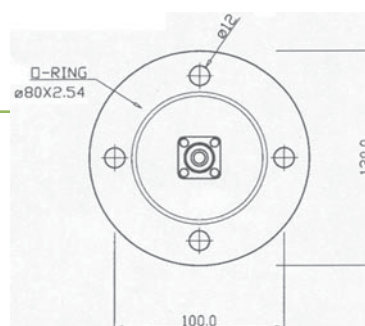
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



VHF CL RADOME ANTENNAS

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket
- TETRA Service Frequency

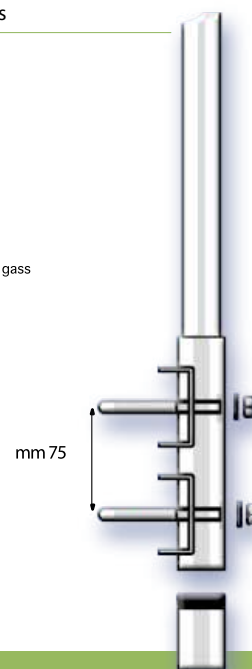
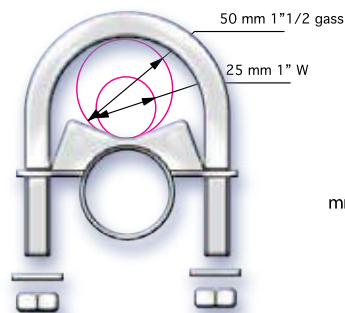
Code	Frequency	gain	V irradiation	Antenna type	Max power	Lenght	radom dia	Weight	Load wind 150 km/h
10080	70-75 Mhz	2 dbi	78°	Dipole	100 W	2,80 mt	28 mm	4,0 kg	100 N
10081	75-80 Mhz	2 dbi	78°	Dipole	100 W	2,80 mt	28 mm	4,0 Kg	100 N
10098-1	118-136 Mhz	2 dbi	78°	Dipole	100 W	1,70 mt	21 mm	3,5 Kg	60 N
10082	136-145 Mhz	2 dbi	78°	Dipole	50 W	1,50 mt	21 mm	3,0 Kg	50 N
10099-1	144 - 162 Mhz	2 dbi	78°	Dipole	50 W	1,30 mt	21 mm	2,0 Kg	43 N
10083	155-175 Mhz	2 dbi	78°	Dipole	50 W	1,30 mt	21 mm	2,0 kg	43 N
10084	136-150 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,70 mt	28 mm	5,5 Kg	120 N
10097-1	147-162 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,50 mt	28 mm	5,0 Kg	120 N
10085	160-175 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,50 mt	28 mm	5,0 Kg	120 N

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	see the table
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	see the table
Power	See the table
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	see the table
Connector	N female PL female (page 34)
Lightning protection	Yes
DC closed	Yes



ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K

UHF CL RADOME ANTENNAS TETRA - PMR - LTE

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket

Code	Frequency	gain	V irradiation	Antenna type	Max power	Lenght	radom dia	Weight	Load wind 150 km/h	
14090	380-435 Mhz	2 dbi	78°	dipole	50W	0,60 mt	21 mm	2,5 Kg	35 N	TETRA
14091	380-435 Mhz	5 dbi	30°	2 el Collinear	100 W	1,50 mt	21 mm	4,5 kg	65 N	TETRA
14092	380-435 Mhz	7 dbi	18°	2 el collinear	150 W	2,20 mt	28 mm	6,5 kg	200 N	TETRA
14080	400-470 Mhz	2 dbi	78°	Dipole	100 W	0,60 mt	21 mm	2,5 Kg	35 N	PMR
14081	400-470 Mhz	5 dbi	30°	2 el. Collinear	100 W	1,20 mt	21 mm	4,5 kg	65 N	PMR
14083	400-435 Mhz	7 dbi	18°	4 el. Collinear	150 W	2,20 mt	28 mm	6,5 kg	200 N	PMR
14084	430-470 Mhz	7 dbi	18°	4 el. Collinear	150 W	2,20 mt	28 mm	6,5 kg	200 N	PMR
14320	746-869 Mhz	8 dbi	15°	8 el collinear	250 W	1,80 mt	40 mm	6,5 Kg	200 N	LTE

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001 horizont blue RAL 5024
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	see the table
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	see the table
Power	see the table
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	see the table
Connector	N female
Lightning protection	Yes
DC closed	Yes

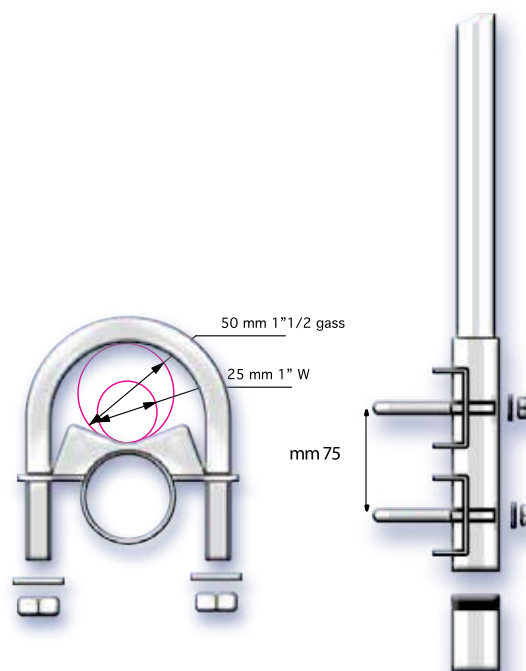
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



VHF MAST RADOME ANTENNAS

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket
- TETRA Service Frequency

Code	Frequency	gain	V irradiation	Antenna type	Max power	Lenght	Mount*	radom dia	Weight	Load wind 150 km/h
14180	70-75 Mhz	2 dbi	78°	Dipole	100 W	2,80 mt	2	28 mm	4,0 kg	100 N
14181	75-80 Mhz	2 dbi	78°	Dipole	100 W	2,80 mt	2	28 mm	4,0 Kg	100 N
14182	118-136 Mhz	2 dbi	78°	Dipole	50 W	1,70 mt	1	21 mm	3,5 Kg	60 N
14183	136-145 Mhz	2 dbi	78°	Dipole	50 W	1,50 mt	1	21 mm	3,0 Kg	50 N
14184	144 - 162 Mhz	2 dbi	78°	Dipole	50 W	1,30 mt	1	21 mm	2,0 Kg	43 N
14185	155-175 Mhz	2 dbi	78°	Dipole	50 W	1,30 mt	1	21 mm	2,0 kg	43 N
14197	136-150 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,70 mt	2	28 mm	5,5 Kg	120 N
14198	147-162 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,50 mt	2	28 mm	5,0 Kg	120 N
14199	160-175 Mhz	5 dbi	30°	2 el. Collinear	200 W	2,50 mt	2	28 mm	5,0 Kg	120 N

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	see the table
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	see the table
Power	see the table
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	see the table
Connector	N female option VHF PL female
Lightning protection	Yes
DC closed	Yes

*1

*2

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket

Code	Frequency	gain	V irradiation	Antenna type	Max power	Lenght	Base*	radome dia	Weight	Load wind 150 km/h	
14190	380-435 Mhz	2 dbi	78°	Dipole	50W	0,60 mt	1	21 mm	2,5 Kg	35 N	TETRA
14191	380-435 Mhz	5 dbi	30°	2 el Collinear	100 W	1,50 mt	1	21 mm	4,5 kg	65 N	TETRA
14192	380-435 Mhz	7 dbi	18°	4 el collinear	150 W	2,20 mt	2	28 mm	6,5 kg	200 N	TETRA
14280	400-470 Mhz	2 dbi	78°	Dipole	100 W	0,60 mt	1	28 mm	2,5 Kg	35 N	PMR
14281	400-470 Mhz	5 dbi	30°	2 el. Collinear	100 W	1,20 mt	1	21 mm	4,5 kg	65 N	PMR
14283	400-435 Mhz	7 dbi	18°	4 el. Collinear	150 W	2,20 mt	2	28 mm	6,5 kg	200 N	PMR
14284	430-470 Mhz	7 db	18°	4 el. Collinear	150 W	2,20 mt	2	28 mm	6,5 kg	200 N	PMR
14317	746-869 Mhz	5 dbi	30°	2 el collinear	100 W	0,80 mt	1	30 mm	2,5 kg	35 N	LTE

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001 Horizon Blue RAL 5023
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	see the table
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	see the table
Power	see the table
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	see the table
Connector	N female
Lightning protection	Yes
DC closed	Yes

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation
 resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E
 Treatments and paintings in accordance with MIL-T-704K



VHF TU RADOME ANTENNAS

- radome with high thickness epoxy resin
- conical whip to reduce the wind impact
- resistant to 1 inch ice
- stainless steel bracket

suggestion of mounting:

Code	Frequency	Lenght	radom dia	Weight	Load wind 150 km/h	
15118	118-136 Mhz	1,50 mt	17 mm	1,0 kg	26 N	AIR BAND
15135	136-150 Mhz	1,50 mt	17 mm	1,0 kg	26 N	PMR
15210	144-162 Mhz	1,30 mt	17 mm	1,0 kg	26 N	MARINE
15150	160-175 Mhz	1,30 mt	17 mm	1,0 kg	26 N	PMR
15300	300-340 Mhz	0,80 mt	17 mm	0,8 kg	15 N	RIVER COMM
15138	385-435 Mhz	0,80 mt	17 mm	0,8 kg	15 N	TETRA
15139	400-435 Mhz	0,60 mt	17 mm	0,7 Kg	15 N	PMR
15339	435-470 Mhz	0,60 mt	17 mm	0,7 Kg	15 N	PMR

MECHANICAL FEATURES

Length	see the table
Weight	see the table
Sections	1
Radome	epoxy fiberglass
Fitting	See the drawing
Brackets material	Aisi 316 stainless Steel
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001
Irradiation element material	Brass
Working temperature	-35°C +80°C
Max wind resistance	150 Km/h
Base torsion force	see the table

ELECTRICAL FEATURES

Frequency	see the table
Antenna	end feed dipole
S.W.R.	< 1,5
Impedance	50 Ohm
Gain	2 dbi
Power	100 W
Polarization	Vertical
Horizontal irradiation	360°
Vertical irradiation	78°
Connector	N female option VHF PL female
Lightning protection	Yes
DC closed	Yes

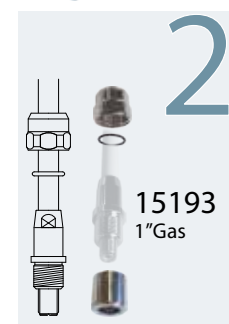
N female connector

1204 - connector cover cap
supplied with all antennas

more type of mounting
at page 39

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E
 Treatments and paintings in accordance with MIL-T-704K



MECHANICAL FEATURES

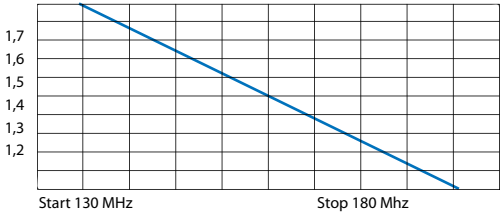
ELECTRICAL FEATURES

Length	1,30 mt (4") Typical	Frequency	140 - 175 Mhz
Weight	0,7 kg	Antenna	Ground Plane 5/8
Sections	1	SWR	see the diagram
Fittings	insertion on tube 25mm (1") or 33 mm (1"G)	Bandwith	4 Mhz
Structure	Epoxy fiberglass	Impedance	50 Ohm
Finishing	Polyurthane paint	Gain	3 db on half dipole
Colour	White or Green Nato	Power	50 W
Chromium plating	20m copper, 20m nickel, 5m chrome	Polarization	Vertical
Working temperature	-35C +80C	Horizontal Irradiation	360°
Wind resistance	200 Km/h	Vertical Irradiation	60°
Base torsion force	10 N at wind max speed	Connector	SO239
		Lighting protection	DC closed

Detachable support,
to screw and to waterproof
the conector
Raccordo staccabile,
unica nel suo genere,
per poter avvitare
e impermeabilizzare BENE
il connettore



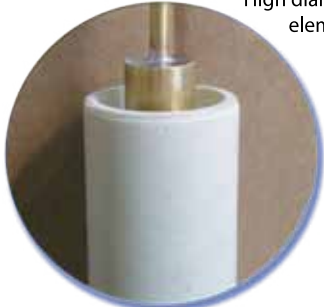
CUTTING TABLE



Strong fiberglass whip
with metal support



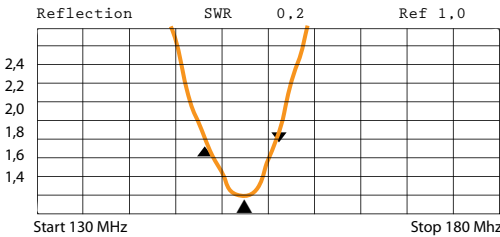
High diameter irradiation
element to increase
the bandwidth



Fiberglass tube with
hight thikpress



01037



Strong screws
opposite
asymmetrically
Possible to mount
support dia 25 (1")
and dia 33 (1"G)

Inside fiberglass
coil complete
waterproof

VHF/UHF large band dipole

code 14050

code 14051

code 14052

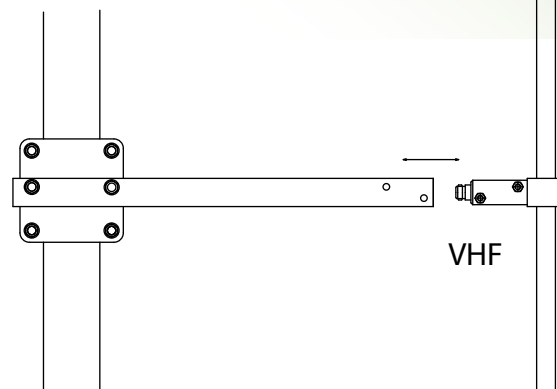
136-146 Mhz

145-175 Mhz

385-470 Mhz

MODELS

Code	14050	14051	14052
Frequency	136-146 Mhz	146-174 Mhz	385-470 Mhz
Dipole Length	1,00 mt	0,90 mt	0,375 mt
Distance from mast	0,535 mt	0,500 mt	0,2 mt (385-400 MHz) 0,18 mt (400-470 MHz)
Weight	2 Kg	2 Kg	1,20 Kg
Wind Load (160 Km/h)	185 N	120 N	



MECHANICAL FEATURES

Antenna structure	Stainless Steel 304
Plstic component	Lexan
Dimension	see the table
Mast Support	standard 1/4 Lanbda different length support aveable
Hardware	Stainless steel A4
Working temperature	-35°C +80°C
Max wind resistance	200 Km/h

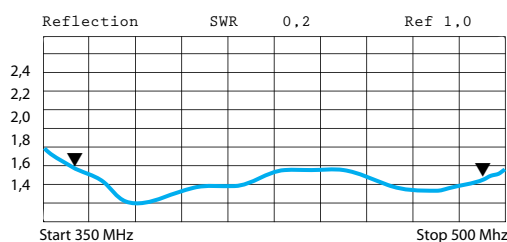
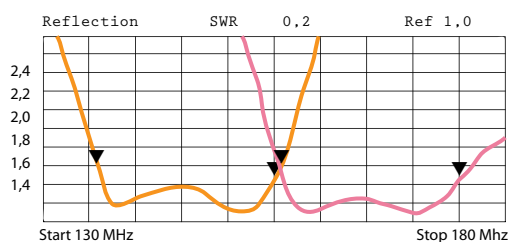
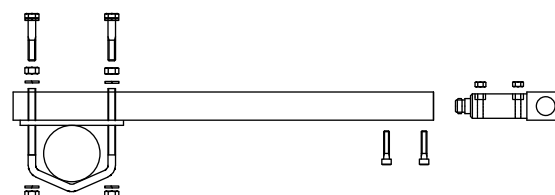
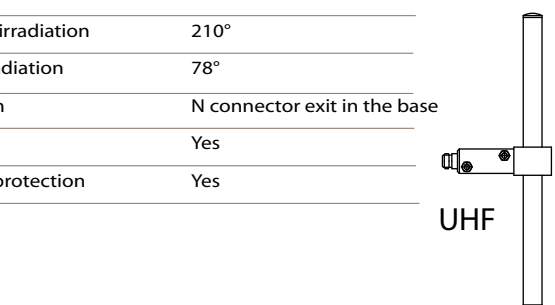
ELECTRICAL FEATURES

Frequency	see the table
Antenna	Center fed coaxial dipole
SWR	<1,5
Gain	4 dbi
Max power	200 W
Polarization	Vertical ad horizontal
Horizontal irradiation	210°
Vertical irradiation	78°
Connection	N connector exit in the base
Ground	Yes
Lightning protection	Yes



ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance
in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



UHF Directive

code 14153

200 - 400 Mhz Log Periodic

MECHANICAL FEATURES

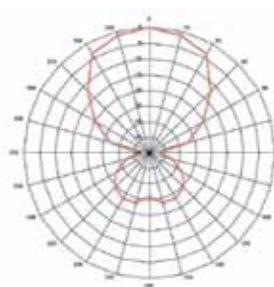
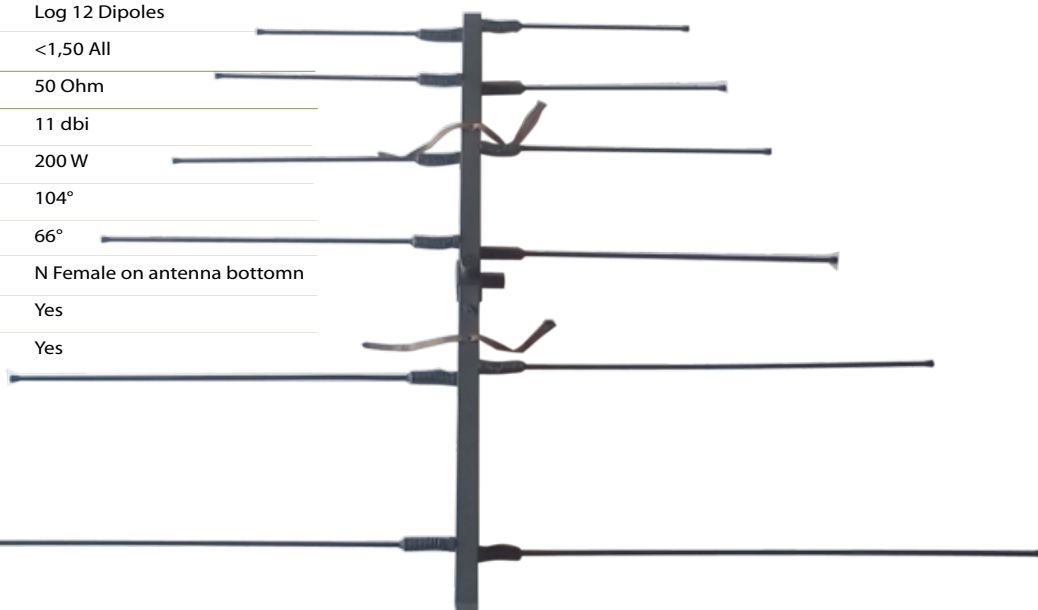
Length	2,00 mt
Width	2,20 mt
Weight	12 kg
Bottom diameter	2 x 40x20 mm
Element diameter	12 mm
Structure	Aluminium
Finishing	Polyurethane paint
Colour	Grey RAL 7001
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	360 N at wind max speed
Fittings	Vertical on the antenna bottomn

ELECTRICAL FEATURES

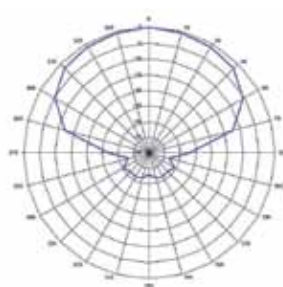
Frequency	200 - 400 Mhz
Antenna	Log 12 Dipoles
S.W.R.	<1,50 All
Impedance	50 Ohm
Gain	11 dbi
Power	200 W
Horizontal Irradiation	104°
Vertical Irradiation	66°
Connector	N Female on antenna bottomn
Lighting protection	Yes
DC closed	Yes

MOUNTING FEATURES

Tube from dia 2" min to dia Max 3"1/2



V - PLANE



H - PLANE



VHF Directive

code 14053

40 - 42 Mhz YAGI 3 elements

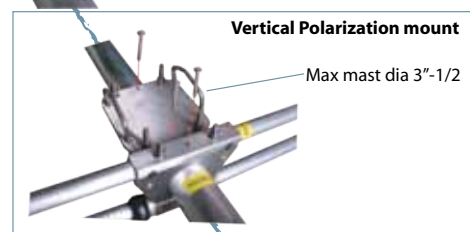
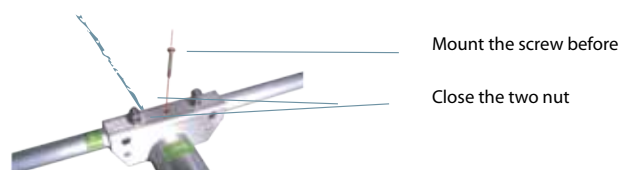
MECHANICAL FEATURES

Length	3,00 mt
Width	3,40 mt
Weight	12 kg
Bottom diameter	60 mm
Element diameter	30 mm
Structure	Aluminium
Finishing	Polyurethane paint
Colour	Grey RAL 7001
Working temperature	-35C +80C
Wind resistance	150 Km/h
Base torsion force	360 N at wind max speed
Fittings	Vertical or Horizontal



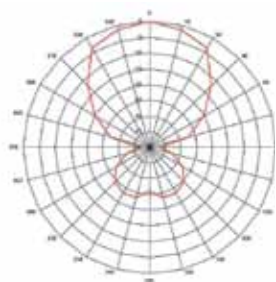
ELECTRICAL FEATURES

Frequency	40 - 42 Mhz
Antenna	Yagi 3 Elements
S.W.R.	<2,00 Band
	<1,5 Center Band
Impedance	50 Ohm
Gain	6 db
Power	500 W
Horizontal Irradiation	104°
Vertical Irradiation	66°
Connector	N Female
Lighting protection	Yes
DC closed	Yes

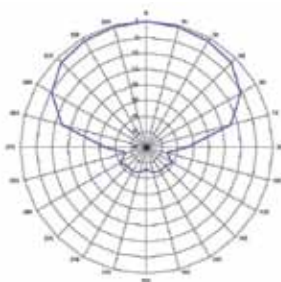


MOUNTING FEATURES

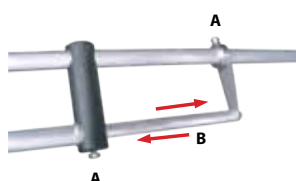
Tube from dia 2" min to dia Max 3"1/2



V - PLANE



H - PLANE



Open the bolt M13 (A)
Move the part B to tune the antenna
Screw the bolt (A)



Code	14054	14055
Frequency	136-146 Mhz	146-174 Mhz
Length	1,00 mt	0,90 mt
Hight	1,00 mt	0,90 mt
Gain	7 dbi	7 dbi
Irradiation lobe H	110°	110°
Irradiation lobe V	65°	65°
Weight	4 Kg	4 Kg
Wind Load (160 Km/h)	185 N	120 N

MECHANICAL FEATURES

Antenna structure	Stainless Steel 304
Plastic component	Lexan
Dimension	see the table
Mast Support	standard 1/4 Lanbda different length support available
Hardware	Stainless steel A4
Working temperature	-35°C +80°C
Max wind resistance	200 Km/h

ELECTRICAL FEATURES

Frequency	see the table
Antenna	Center fed coaxial dipole
SWR	<1,5
Gain	see the table
Max power	200 W
Polarization	Vertical ad horizontal
Horizontal irradiation	see the table
Vertical irradiation	see the table
Connection	N connector exit in the base
Lightning protection	DC close

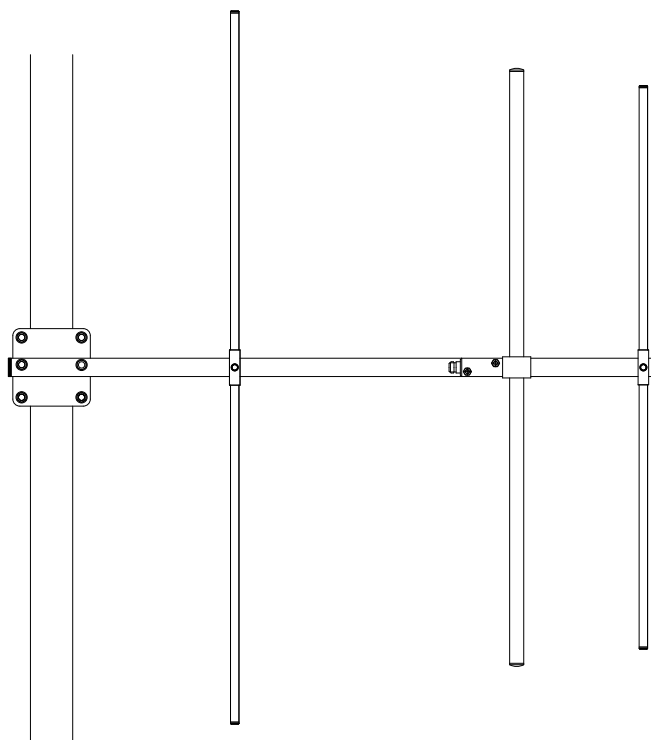
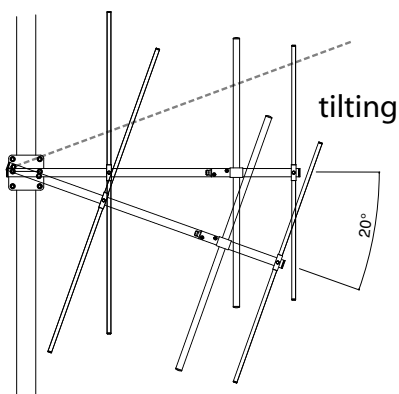
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance
in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

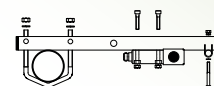
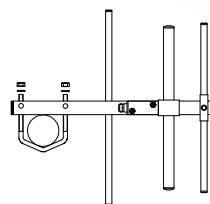
Treatments and paintings in accordance with MIL-T-704K



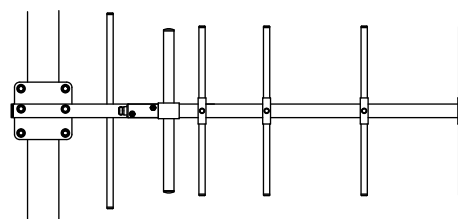
MODELS

Code 14056 14057

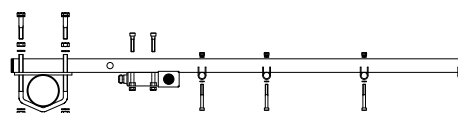
Frequency	385-470 Mhz	385-470 Mhz
Length	0,375 mt	0,980 mt
Hight	0,340 mt	0,340 mt
Gain	7 dbi	10 dbi
Irradiation lobe H	110°	75°
Irradiation lobe V	65°	55°
Weight	1,20 Kg	4 Kg
Wind Load (160 Km/h)	40 N	120 N



14056



14057



MECHANICAL FEATURES

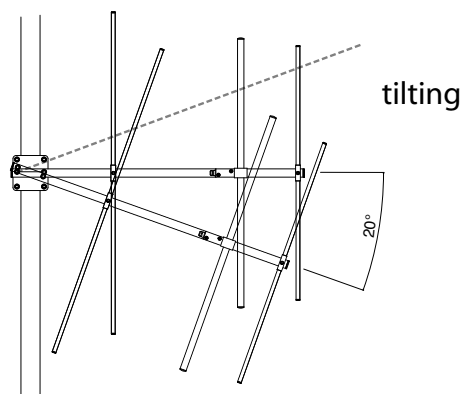
Antenna structure	Stainless Steel 304
Plstic component	Lexan
Dimension	see the table
Mast Support	standard 1/4 Lanbda different length support available
Hardware	Stainless steel A4
Working temperature	-35°C +80°C
Max wind resistance	200 Km/h

ELECTRICAL FEATURES

Frequency	see the table
Antenna	Center fed coaxial dipole
SWR	<1,5
Gain	see the table
Max power	200 W
Polarization	Vertical ad horizontal
Horizontal irradiation	see the table
Vertical irradiation	see the table
Connection	N connector exit in the base
Lightning protection	DC close

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



MULTIPLE DIPOLE INDIPENDENTLY FED 385-470 Mhz TETRA

code 11314 (2 dipoles)

code 11311 (3 dipoles)

code 11312 (4 dipoles)

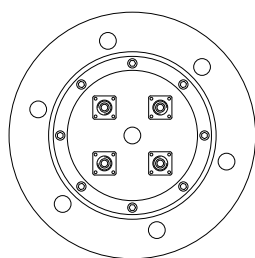
MECHANICAL FEATURES

Sections	1
Mast diameter	180 mm
Fitting	Peralluman dia 265 Flange
Antenna structure	Aluminium
Radom tube	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	WhiteRAL 9000
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulдер paint
Working temperature	-35C +70C

ELECTRICAL FEATURES

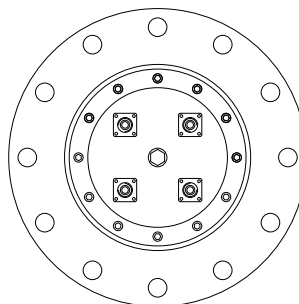
Frequency	385-470 Mhz
Lighting protection	Yes
Gain	2 dbi each dipole
DC Ground	Yes
Bandwith at SWR <2.0	175 Mhz
SWR	2:1 all the band
Max Power	200W
Polarization:	Vertical
Horizontal Irradiation	360°
Vertical irradiation	78°
Gain	0 db on half wave dipole
Separation between elements	>25

Model	11314	11311	11312
Dipoles	2	3	4
length	2,40 mt	3,80 mt	5,20 mt
Wheight	35 Kg	45 Kg	53Kg
Connector	2xN female	3xN female	4xN female
Max wind resistance with radial ice	350 Km/h	265 Km/h	220 Km/h
Max load at 150Km/h wind	25 daN	38 daN	55 daN

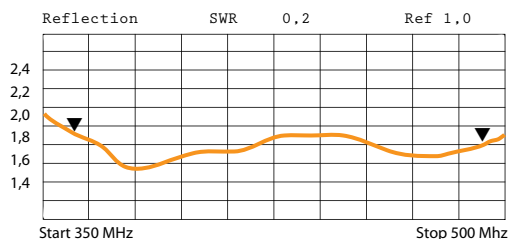
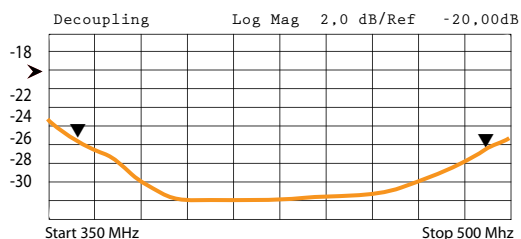


FLANGE dia 265 mm
6 holes dia 18 mm on 225 mm dia
waterproof o-ring gasket
from 2 to 5 N female connector

Option 1



FLANGE dia 320 mm
12 holes dia 21 mm on 280 mm dia
waterproof o-ring gasket
from 2 to 5 N female connector



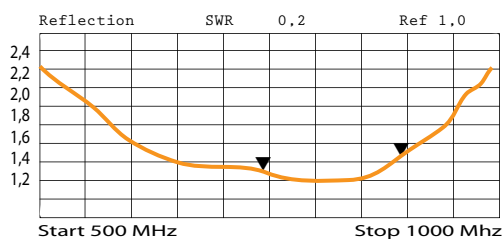
LTE 746 - 869 Mhz
OMNIDIRECTIONAL 12 dbi Gain

code 13319

MECHANICAL FEATURES

ELECTRICAL FEATURES

Sections	1	Frequency	746 - 869 Mhz
Fiberglass diameter	52 mm	Gain	12 dbi
Lenght	4,50 mt	Bandwith at SWR <2,0	125 Mhz
Fittings	Stainless steel ferrule dia 60mm	SWR / Return Ross	1,5:1/14 db
Fixing	U bracket on pipe 1"1/2 up to 2"1/2	Impedance	50 Ohm
Radome tube	Epoxy Fiberglass	Max Power	500 W
Finishing	Poliurethane paint	Polarization	Vertical
Colour	White RAL 9000	Horizontal irradiation	360 °
	Grey RAL 7001	Vertical irradiation	5 °
	Horizon Blue RAL 5023	Lightning protection	DC Ground
Elements material	Silver plated brass	Connection	7/16
Wind max	250 Km /h	Connection position	Bottom Inside the support
Weight	16 Kg		
Working temperature	-35 +70 C°		



VHF - UHF COUPLER

code 18102
code 18104
code 18202
code 18203
code 28204

136-175 antenna coupler 2 way
136-175 antenna coupler 4 way
385-470 antenna coupler 2 way
385-470 antenna coupler 3 way
385-470 antenna coupler 4 way

MODEL

Code	18102	18104	18202	18203	18204
Frequency	136-175 Mhz	136-175 Mhz	136-175 Mhz	136-175 Mhz	385-470 Mhz
Contruccion	cable	cable	circuit	circuit	circuit
Power	500 W	500 W	200 W	200 W	200 W
Weigh	0,6 Kg	1,0 Kg	0,5 Kg	0,5 Kg	0,5 Kg
Connection	N male	N male	N female	N female	N female
	cable direct in the antenna		necessary to add the double N male antenna cable		

MECHANICAL FEATURES

Drawing:	see the picture
Mast diameter	30-60 mm
Structure	VHF stainless steel and RG-213 cable
	UHF Lexan and stainless steel
Weight	see the table
Working temperature	-35C +80C

ELECTRICAL FEATURES

Frequency	See the table
Coupler type	VHF coaxial cable transformer
	UHF printed circuit
Impedance	50 Ohm
Insertion loss	0,2 db
Max R.O.S.	Max 1,20
Max power	see the table
Connection	see the table
DC closed	No



AIR TRAFIC CONTROL

TBT ANTENNA FOR AIR TRAFFIC CONTROL MULTIPLE DIPOLE INDIPENDENTLY FED

- Top ring to Gru or Helicopter installation
- Separate Dipoles
- Separate Elements supply in base
- Separation between elements <25 db
- Strong Construction



Pisa Airport Installation



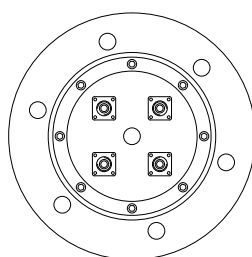
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

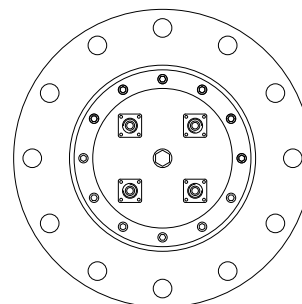
Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



FLANGE dia 265 mm
6 holes dia 18 mm on 225 mm dia
waterproof o-ring gasket
from 2 to 5 N female connector

Option 1



FLANGE dia 320 mm
12 holes dia 21 mm on 280 mm dia
waterproof o-ring gasket
from 2 to 5 N female connector



VHF TBT ANTENNA

MULTIPLE DIPOLE INDEPENDENTLY FED 118 - 144 Mhz

code 11308 (2 dipoles)

code 11309 (3 dipoles)

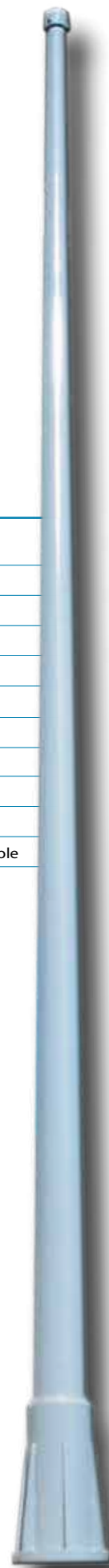
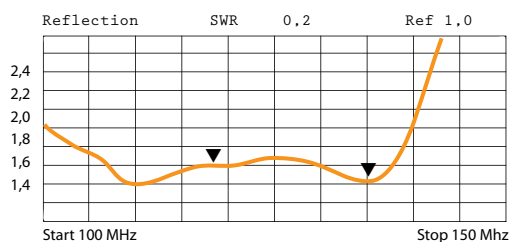
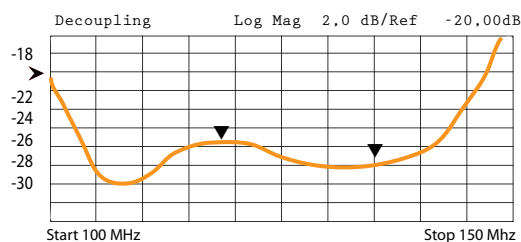
MECHANICAL FEATURES

Sections	1
Mast diameter	180 mm
Fitting	Peraluman dia 320 flange
	Peralluman dia 265 Flange
Antenna structure	Aluminium
Radom tube	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	WhiteRAL 9000
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulder paint
Working temperature	-35C +70C

ELECTRICAL FEATURES

Frequency	118-144 Mhz
Lighting protection	Yes
Gain	2 dbi each dipole
DC Ground	Yes
Bandwith at SWR <2.0	175 Mhz
SWR	2:1 all the band
Max Power	200W
Polarization:	Vertical
Horizontal Irradiation	360°
Vertical irradiation	78°
Gain	0 db on half wave dipole
Separation between elements	>25

Model	11308	11309
Dipoles	2	3
length	4,00 mt	6,50 mt
Wheight	35 Kg	45 Kg
Connector	2xN female	3xN female
Max wind resistance with radial ice	350 Km/h	265 Km/h
Max load at 150Km/h wind	25 daN	38 daN



UHF TBT ANTENNA

MULTIPLE DIPOLE INDEPENDENTLY FED 220 - 400 Mhz

code 11306 (2 dipoles)

code 11307 (3 dipoles)

code 11310 (4 dipoles)

code 11313 (5 dipoles)

MECHANICAL FEATURES

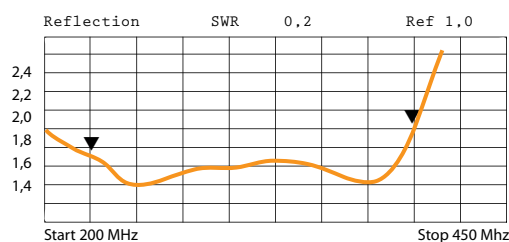
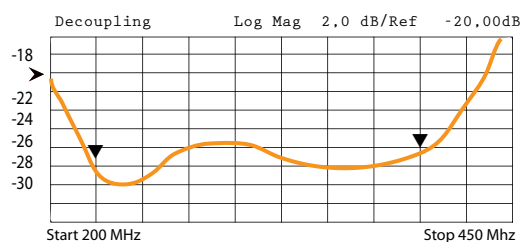
Sections	1
Mast diameter	180 mm
Fitting	Peraluman dia 320 flange
	Peralluman dia 265 Flange
Antenna structure	Aluminium
Radom tube	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	WhiteRAL 9000
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulder paint
Working temperature	-35C +70C

ELECTRICAL FEATURES

Frequency	220 - 400 Mhz
Lighting protection	Yes
Gain	2 dbi each dipole
DC Ground	Yes
Bandwith at SWR <2.0	175 Mhz
SWR	2:1 all the band
Max Power	200W
Polarization:	Vertical
Horizontal Irradiation	360°
Vertical irradiation	78°
Gain	0 db on half wave dipole
Separation between elements	>25

Model	11306	11307	11310	11313
Dipoles	2	3	4	5
length	2,70 mt	4,40 mt	5,72 mt	6,50 mt
Weight	35 Kg	45 Kg	53Kg	61 Kg
Connector	2xN female	3xN female	4xN female	5 x N female
Max wind resistance with radial ice	350 Km/h	265 Km/h	220 Km/h	180 Km/h
Max load at 150Km/h wind	25 daN	38 daN	55 daN	70 daN

Drawing general information and picture at page 51



VHF - UHF TBT ANTENNA MULTIPLE DIPOLE INDIPENDENTLY FED

**118 - 136 Mhz
220-400 Mhz**

**code 11315 (2 dipoles VHF-UHF)
code 11316 (3 dipoles VHF-UHF-VHF)
code 11317 (3 dipoles UHF-VHF-UHF)**

MECHANICAL FEATURES

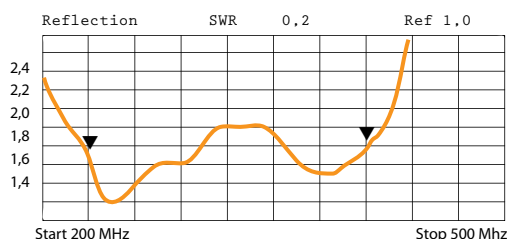
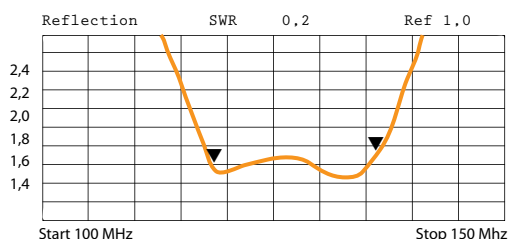
Sections	1
Mast diameter	180 mm
Fitting	Peraluman dia 320 flange Peralluman dia 265 Flange
Antenna structure	Aluminium
Radom tube	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	WhiteRAL 9000
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulder paint
Working temperature	-35C +70C

ELECTRICAL FEATURES

Frequency	118-136 Mhz 220 - 400 Mhz
Lighting protection	Yes
Gain	2 dbi each dipole
DC Ground	Yes
Bandwith at SWR <2.0	175 Mhz
SWR	2:1 all the band
Max Power	200W
Polarization:	Vertical
Horizontal Irradiation	360°
Vertical irradiation	78°
Gain	0 db on half wave dipole
Separation between elements	>25

Model	11314	11315	11316
Dipoles	1xVHF+1xUHF	2xVHF+1xUHF	1xVHF+2xUHF
length	3,60 mt	6,50 mt	4,50
Weight	35 Kg	45 Kg	40 Kg
Connector	2xN female	3xN female	2xN female
Max wind resistance with radial ice	350 Km/h	265 Km/h	300 Km/h
Max load at 150Km/h wind	25 daN	38 daN	30 daN

Drawing general information and picture at page 51



VERY LARGE BAND COAXIAL DIPOLE HARD COSTRUCTION 2 SECTIONS TO EASY FREIGHT

code 11120
code 11305

100-175 Mhz
225-470 Mhz

MODELS

Code	11120	11305
Frequency	100-175 Mhz	225-470 Mhz
Total Length	0,98 mt	0,52 mt
Top section	0,50 mt x 120 mm dia	0,27 mt x 120 mm dia
Bottom section	0,48 mt x 250 mm dia	0,25 mt x 250 mm dia
Weight	4 Kg	2,5 Kg
Wind Load (160 Km/h)	185 N	120 N

MECHANICAL FEATURES

ELECTRICAL FEATURES

		Frequency	see the table
Fitting	Stainless Steel aisi 304 electropolished	Antenna	Center fed coaxial dipole
Antenna structure	Aluminium anticorodal 100	SWR	<3,0 (2,0 115-165 MHz)
Ferrule Structure	Aluminium anticorodal 100		<2,0 from 225-470 Mhz
Threatment.	Alodine 1200	Gain	0 db on 1/2 wave dipole
Ferrule paint	Polyester powder	Max power	500 W
Radom tube	Epoxy fiberglass	Polarization	Vertical
Finishing	Polyurethane paint	Horizontal irradiation	360°
Cage antenna	Stainless steel Aisi 304	Vertical irradiation	78°
Cage paint	Polyester powder	Connection	N connector
Colour:	Grey RAL 7001		bottom exit in the base
Hardware	Stainless steel A4	Ground	Yes
Working temperature	-35°C +80°C	Lightning protection	Yes
Max wind resistance	200 Km/h		

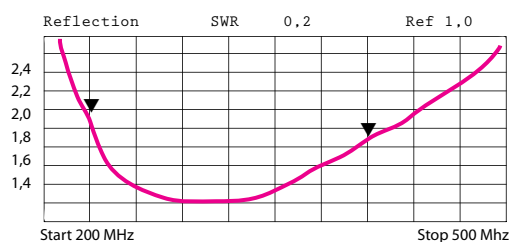
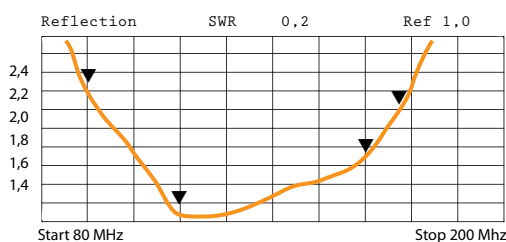
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance
in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704K



RADIO BEACON ANTENNA (NDB) Self Supporting 15 mt

code 11133

MECHANICAL FEATURES

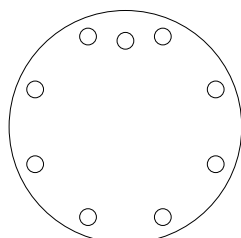
Length	15 mt
Weight	70 Kg
Sections	3
Bottom Diameter	160 mm
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001
Irradiation element material	Brass
Working temperature	-50°C +60°C
Max wind resistance	150 Km/h

ELECTRICAL FEATURES

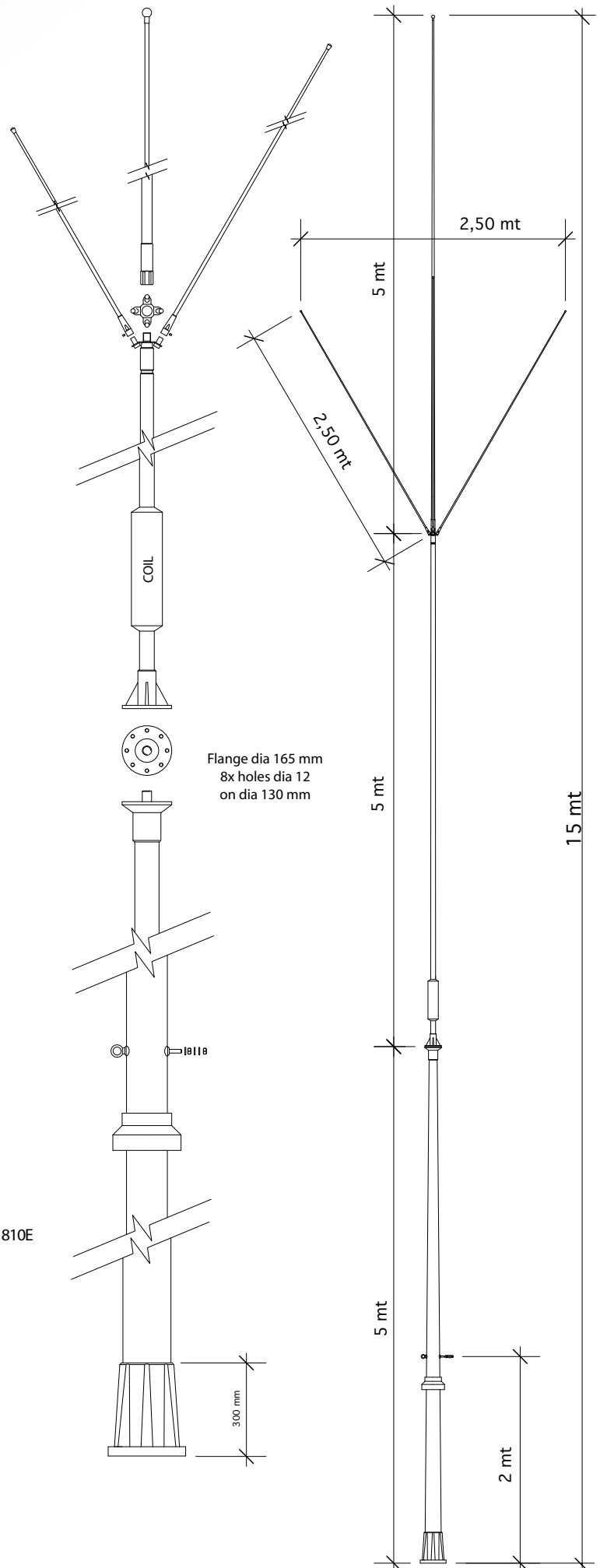
Frequency	200 - 500 Khz
Power	220 W
Capacitance	270pF @ 300Khz
Polarization	Vertical
Connection	M 12 bolt
Lightning protection	Dc closed
Earth Mat/ ground screen	Standard 36 x 15 Mt Upgrade Version 72 x 15 Mt + additional earth 1 mt road 50 x 0,50 mm aveable code 00091
Tape Copper	

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



FLANGE dia 250 mm
8 holes dia 18 mm on 210 mm dia

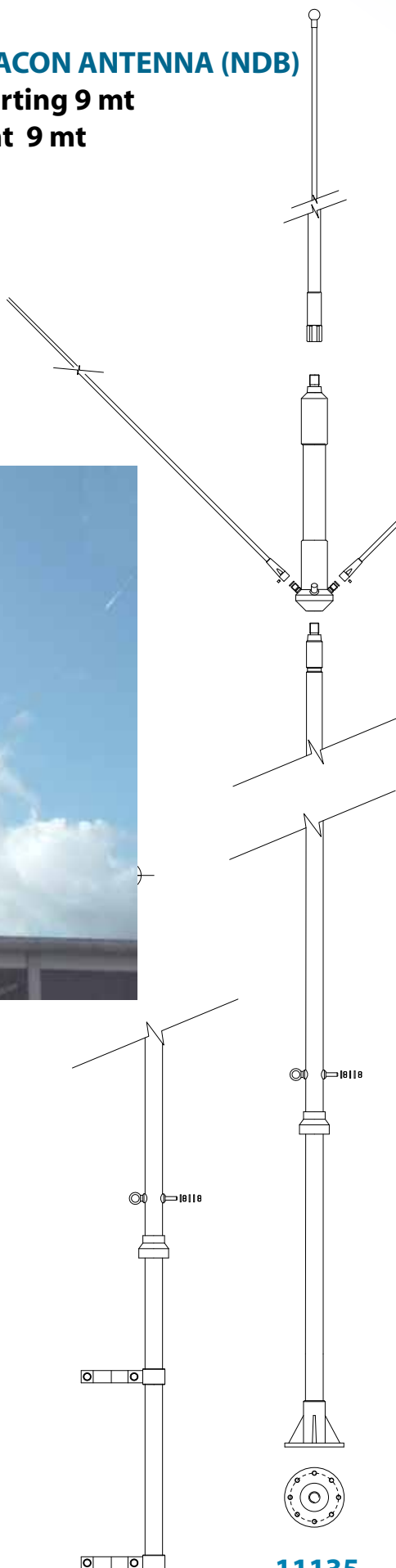


RADIO BEACON ANTENNA (NDB)

self supporting 9 mt
side mount 9 mt

code 11135

code 11134



MECHANICAL FEATURES

Length	9,0 mt
Weight	10,50 Kg
Sections	3
Bottom Diameter	52 mm
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
Colour	White RAL 9000 Grey RAL 7001
Irradiation element material	Brass
Working temperature	-50°C +60°C
Max wind resistance	150 Km/h

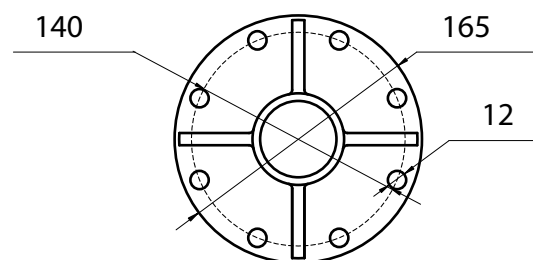
ELECTRICAL FEATURES

Frequency	200 - 1800 Khz
Power	150 W
Capacitance	130 pF @ 300 Khz
Polarization	Vertical
Connection	M 10 bolt

Earth Mat/ ground screen	Standard 36 x 15 Mt Upgrade Version 72 x 15 Mt + additional earth 1 mt road
Tape Copper	50 x 0,50 mm aveable code 00091

ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance
in accordance with MIL-STD 810E
Vibration resistance in accordance with MIL-STD 167-1
Shock resistance in accordance with MIL-STD 810E
Treatments and paintings in accordance with MIL-T-704K



VEHICULAR MOBILE ANTENNAS





ELECTRICAL FEATURES

Frequency	1575.42 Mhz
Antenna type	Pach.
Impedance	50 Ohm
Gain	+25dbic (amplifier)
Polarization	RHCP
Power	3-6 volts DC feed through connector + center pin
Supply	15 mA
Noise figure	1,2 db
Imput 3rd intercept point	-10 dbm

VHF - UHF 1/4 wave - VEHICULAR WHIP

- Mobile antenna mono band
- With or without sock spring
- Stainless steel or fiberglass Whip
- Turnable whip by cutting diagram
- Factory turnable according to specific customer frequency
- 180° tilting whip

code 18010
code 18110
code 18020
code 18120
code 18021
code 18121
code 18030

1/4 60-80 Mhz shock spring
1/4 60-80 Mhz shock spring fiber
1/4 136-175 Mhz
1/4 136-175 Mhz fiberglass
1/4 136-175 Mhz shock spring
1/4 136-175 Mhz shock spring fiber
1/4 385-470 Mhz

MODEL

Code	18010	18110	18020	18120	18021	18121	18030
Frequency	UHF 60-80 Mhz	VHF 60-80 Mhz	VHF 136-175 Mhz	VHF 136-175 Mhz	VHF 136-175 Mhz	VHF 136-175 Mhz	VHF 385-470 Mhz
Bandwidth at lowest freq.	1 Mhz	3 Mhz	3 Mhz	3 Mhz	3Mhz	3Mhz	6,5 Mhz
Sock spring	YES	YES	NO	NO	YES	YES	NO
Length lowest freq	1,50 mt	1,50 mt	0,540 mt	0,540 mt	0,540 mt	0,540 mt	0,20 mt
Weigh	350 gr	300 gr	250 gr	200 gr	200 gr	200 gr	150 gr
Whip Material	inox	fiber	inox	fiber	inox	fiber	inox

MECHANICAL FEATURES

Length:	see the table
Base diameter	40 mm
Mounting hole	24 mm
Weight	see the table
Base material	Chrome plated brass
Whip material	Stainless steel 17/7 pH standard Fiberglass Grey RAL 7001 other colour on special require
Mount	On conductive surface
Working temperature	-35C +80C

ELECTRICAL FEATURES

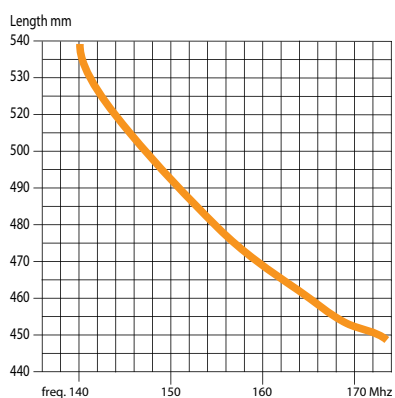
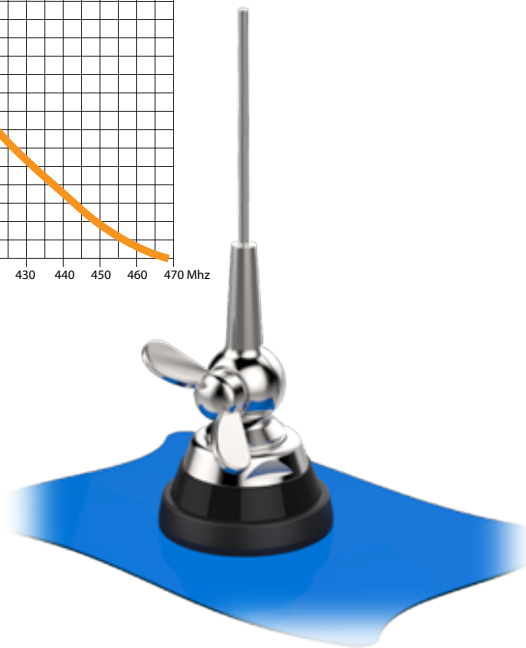
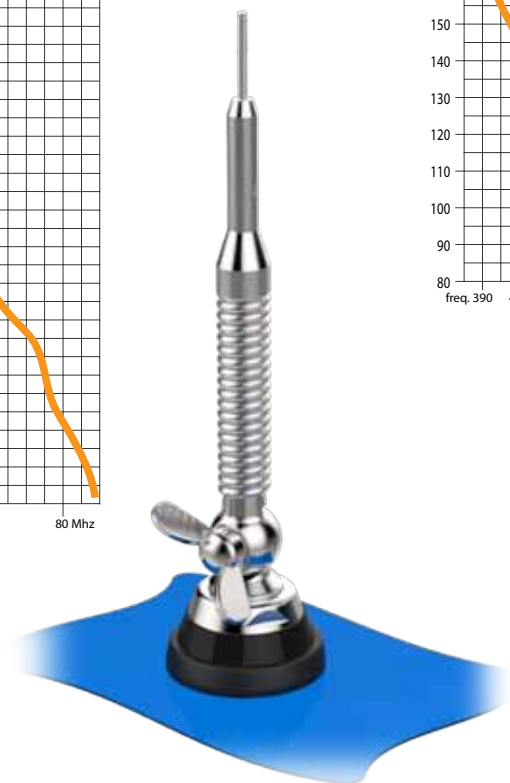
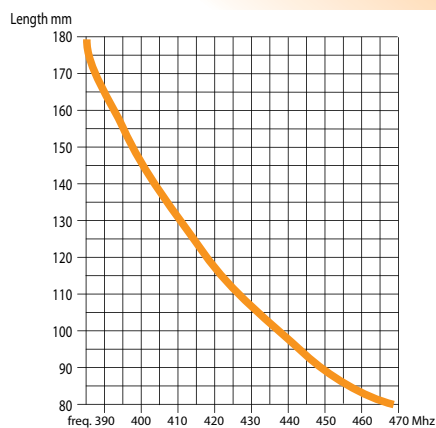
Frequency	See the table
Bandwidth	See the table
Antenna type	1/4 wave whip mobile
Impedance	50 Ohm unbalanced
Gain	2 dBi
Max R.O.S.	Max 1,50 in band
Max power	100 W
Polarization	Vertical
Connection	5 mt cable RG-58
DC closed	No



code 18010 inox
code 18110 fiber



code 18030



code 18020 inox
code 18120 fiber

code 18021 inox
code 18121 fiber

VHF - UHF 5/8 - 5/4 wave - VEHICULAR WHIP

- Mobile antenna mono band
- Stainless steel or fiberglass Whip
- Turnable whip by cutting diagram
- Factory turnable according to specific custome frequency
- 180° tilting whip

code 18040
code 18140
code 18060
code 18050 biband

5/8 136-175 Mhz
5/8 136-175 Mhz fiber
5/4 385-470 Mhz
1/4 140-175 Mhz
5/8 385-470 Mhz

MODEL

Code	18040	18140	18050		18060
Frequency	136-175 Mhz	136 - 175 Mhz	140 - 175Mhz	385-470 Mhz	385-470 Mhz
Antenna type	5/8 wave	5/8 wave	1/4 wave	5/8 wave	5/4 wave
Gain	3 db	3 db	0 db	3 db	4 db
Bandwithdt at lowest freq.	6,5 Mhz	6,5 Mhz	2 Mhz	8 Mhz	8 Mhz
Length lowest freq	1,40 mt	1,40 mt	0,47 mt		0,45 mt
Weigh	500 gr	500 gr	320 gr		250 gr
Whip	inox	fiber	inox		inox

MECHANICAL FEATURES

Length:	see the table
Base diameter	40 mm
Mounting hole	24 mm
Weight	see the table
Base material	Chrome plated brass
Whip material	Stainless steel 17/7 pH standard Fiberglass Grey RAL 7001 other colour on special require
Mount	On conductive surface
Working temperature	-35C +80C

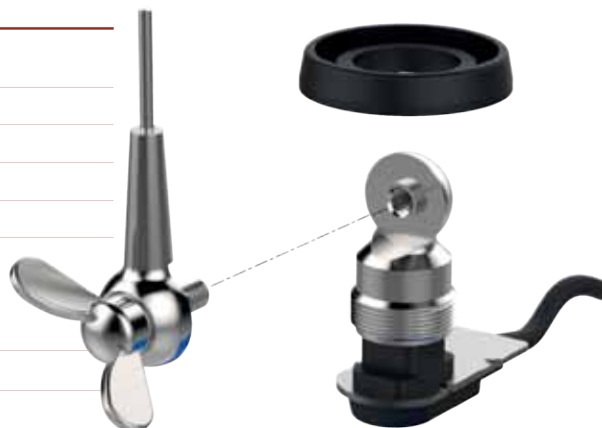
ELECTRICAL FEATURES

Frequency	See the table
Bandwithdt	See the table
Antenna type	see the table
Impedance	50 Ohm unbalanced
Max R.O.S.	Max 1,50 in bandwithdt
Max power	100 W
Polarization	Vertical
Connection	5 mt cable RG-58
DC closed	No

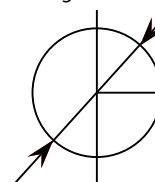
code 18000 standard base spare part
with 5 mt RG-58
(with FME connector option)



GPS accessory
Available:
See page 75

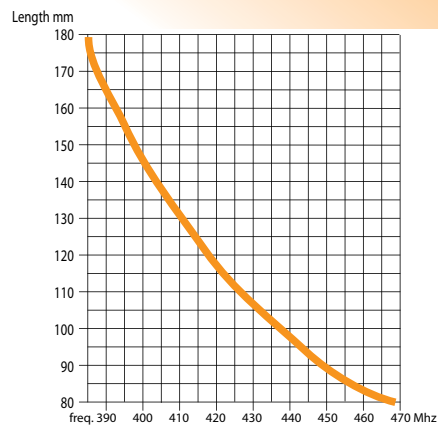


mounting hole dia 24 mm

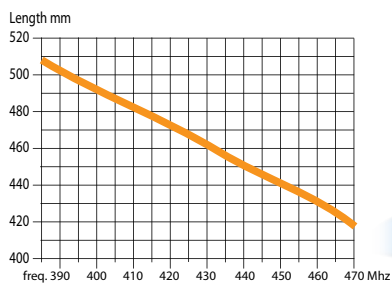
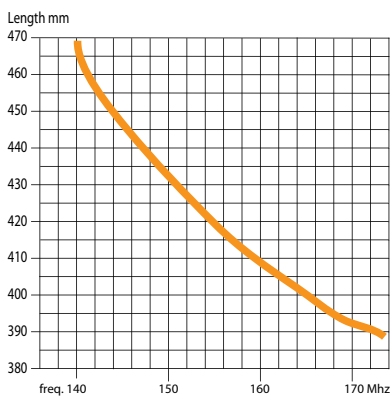




code 18040 inox
code 18140 fiber



code 18060



code 18050

LOW PROFILE ANTENNA

code 11350 400 - 470 Mhz
code 11351 860 - 960 Mhz

MECHANICAL FEATURES

Code	11350	11351
Dimension:	dia 110 x 80 h	dia 110 x 160 h
Weight	920 gr	1100 gr
Base material	Anticorodal 100	
Irradiation elements material	Stagnated brass	
Treatments	Alodine 1200	
Finishing	Polyester powder RAL 700333	
Radome	Lexan® Polycarbonate 143R colour RAL 7001	
Mount	On conductive surface	
Working temperature	-35C +80C	
Max front speed	400 Km/h	
Wind resistance	200 Km/h	
Protection	IP 67	
Fittings	fixing bolts M10 S/S A2	
Gasket	OR 4375 in Viton FP75	
Rear flange	Dia 115 x sp. 3 S/S Aisi 304	



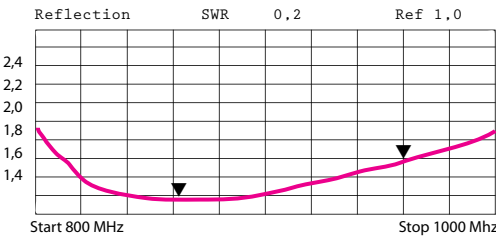
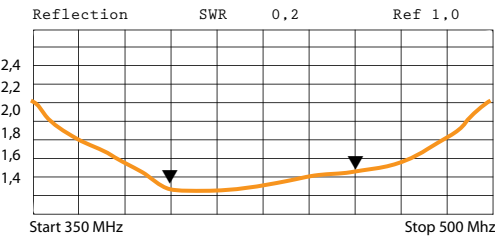
11350

ELECTRICAL FEATURES

Frequency	400 - 470 Mhz	870 - 960 Mhz
Impedance	50 Ohm	
Gain	0 db ref. antenna 1/4 lambda	
Max R.O.S.	Max 1,50 : 1,00 whole band	
Max power	100 W	
Polarization	Vertical	
Horizontal Irradiation	360°	
Connection	N female connector 90°	
Lighting protection	Yes	
DC closed	Yes	



11351



TV PANEL

code 18300 380-470 Mhz
code 18301 470-860 Mhz
code 18302 600-950 Mhz

UHF PANNEL Vertical irradiation

Model	18300	18301	18302
Dimensions	970x440x170	970x440x170	690x270x125
Weight	5,5 Kg	8,2 Kg	3,5 Kg
Connector	N female	N female	N female
		flange 7/16	
Whond surface	0,5 mq	0,5 mq	0,18 mq
Max load at 150Km/h wind	70 N	70 N	40 N

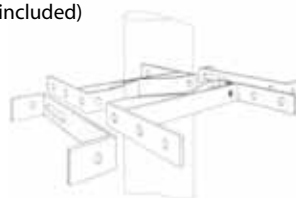
Stainless steel aisi 304 antenna bratchet (not included)



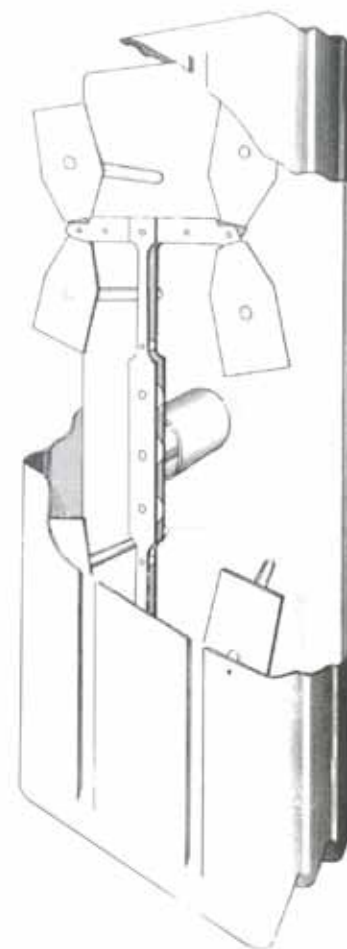
Tilting
code xxxxx
20°



Mast bratchet dia 30-110 mm
code xxxxx
1 pannel
2 pannel 90°
2 pannel opposite 180°
3 pannel 270°



Mast bratchet dia 60-140 mm
code xxxxx
1 pannel
2 pannel 90°
2 pannel opposite 180°
3 pannel 270°
4 pannel 360°

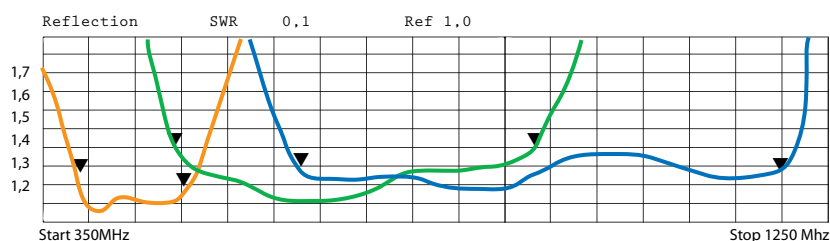


MECHANICAL FEATURES

Dimension	see the table
Antenna structure	Aluminium
Radome	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	Grey RAL 7001
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulder paint
Wind Resistance with ice	200 Km/h
Working temperature	-35C +70C

ELECTRICAL FEATURES

Frequency	see the table
Impedence	50 Ohm
Gain	10-13 db on half wave dipole
SWR	>1:3 all the band
Max Power	500W N female connector
	1KW flange 7/16 connector
Polarization:	Horizontal
Horizontal Irradiation	60°
Vertical irradiation	30°
Lightning protection	DC Ground



ENVIRONMENTAL SPECIFICATION

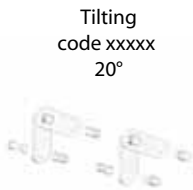
Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E
 Treatments and paintings in accordance with MIL-T-704K

code 18303 380-470 Mhz
code 18304 470-860 Mhz
code 18305 600-1050 Mhz

UHF PANNEL Horizontal irradiation

Model	18303	18304	18305
Dimensions	970x440x170	970x440x170	690x270x125
Wheight	5,5 Kg	5,5 Kg	2,7 Kg
Connector	N female	N female flange 7/16	N female
Whond surface	0,5 mq	0,5 mq	0,18 mq
Max load at 150Km/h wind	70 N	70 N	40 N

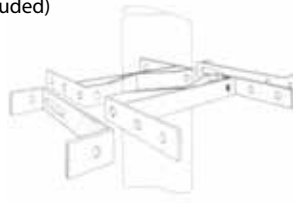
Stainless steel aisi 304 antenna bracket (not included)



Tilting
code xxxxx
20°



Mast bracket dia 30-110 mm
code xxxxx
1 pannel
2 pannel 90°
2 pannel opposite 180°
3 pannel 270°



Mast bracket dia 60-140 mm
code xxxxx
1 pannel
2 pannel 90°
2 pannel opposite 180°
3 pannel 270°
4 pannel 360°

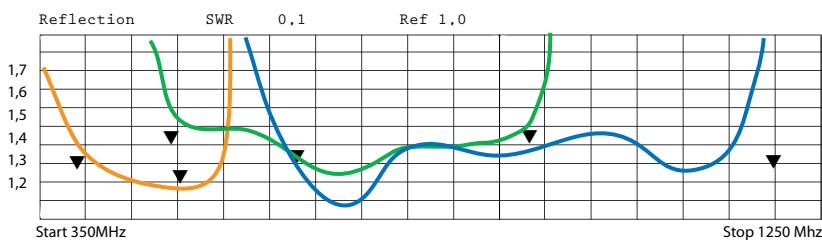


MECHANICAL FEATURES

Dimension	see the table
Antenna structure	Aluminium
Radome	Epoxy fiberglass
Finishing	Polihurethane paint
Colour	Grey RAL 7001
	Grey RAL 7001
Treatments Aluminium Dipole	Alodine 1200
Treatments Base	Alodine 1200 - Poulder paint
Wind Resistance with ice	200 Km/h
Working temperature	-35C +70C

ELECTRICAL FEATURES

Frequency	see the table
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	1KW flange 7/16 connector
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Horizontal Irradiation	60°
Vertical irradiation	30°
Lightning protection	DC Ground



ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E
 Vibration resistance in accordance with MIL-STD 167-1
 Shock resistance in accordance with MIL-STD 810E
 Treatments and paintings in accordance with MIL-T-704K

Our Catalogues:



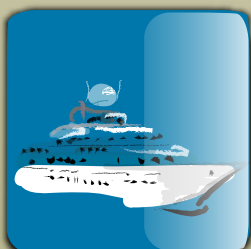
Motor Boat



Cargo Vessel



Sail Boat



SuperYacht



SINCE 1969

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