

ANTENNAS, POWER DIVIDERS & SYSTEMS



be innovative

be reliable

be partner

70 ÷ 80 MHz

146 ÷ 174 MHz

390 ÷ 500 MHz

POWER DIVIDERS

BELCO FOCUSES ON MAINTAINING A RESPONSIVE, FLEXIBLE AND QUALITY-ORIENTED COMPANY. THIS IS ALSO EVIDENCED BY MAINTAINING UNI EN ISO 9001:2015 CERTIFICATION SINCE 2002.



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
CERT-10938-2002-AQ-MIL-SINCERT

Initial certification date:
06 August 2002

Valid:
17 July 2023 – 16 July 2026

This is to certify that the management system of
BELCO S.r.l.
Via Lodi, 86 - 21042 Caronno Pertusella (VA) - Italy

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:

Design and manufacture of coaxial passive components and equipment for telecommunications, broadcasting and low voltage distribution applications. Trade and after sales servicing of components and equipments for professional electronics (IAF 19, 29)

Place and date:
Vimercate (MB), 20 June 2023



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F

EMAS N° 009 P
PRD N° 003 B
PRS N° 004 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT; di MLA IAF
per gli schemi di accreditamento SGQ, SGA, SSI, FSM
e PRD e di MRA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP.

For the issuing office:
DNV - Business Assurance
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy



Claudia Baroncini
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV Business Assurance Italy S.r.l., Via Energy Park, 14 - 20871 Vimercate (MB) - Italy - TEL: +39 68 99 905. www.dnv.it

OUR MISSION

BELCO IS COMMITTED TO BE RECOGNIZED BY CLIENTS AS PREFERRED PARTNER EXCELLING IN THE QUALITY OF PRODUCTS ,SERVICES AND COMPETITIVENESS.

WE ARE A COMPANY OF PEOPLE DEDICATED TO INNOVATION, RELIABILITY, EFFICIENCY AND SUSTAINABILITY.

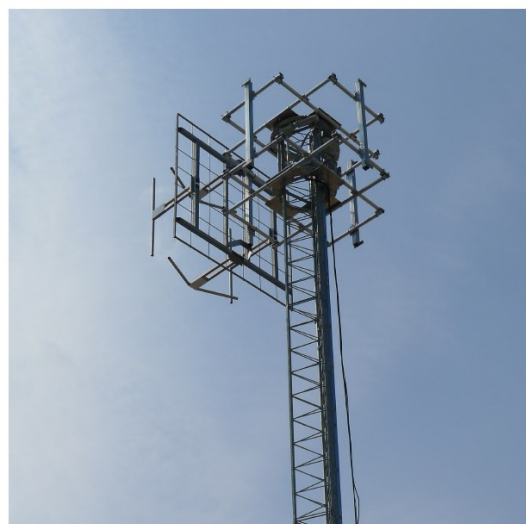


Belco S.r.l. has specialized in the production and sale of passive electronic components throughout Italy since 1981. Originally, the company operated as a broker and sales agent, dealing mainly with military products. Before long, our activities expanded to other products and fields of application.

In fact, after a few years it became clear that the company's mission was shifting to the innovative and growing fields of Telecommunications and Broadcasting.

1993 was the decisive year that marked our entry into these interesting markets, where we have been growing steadily ever since, allowing us, in 1996, to launch our in-house designed and manufactured products for both Italy and abroad.

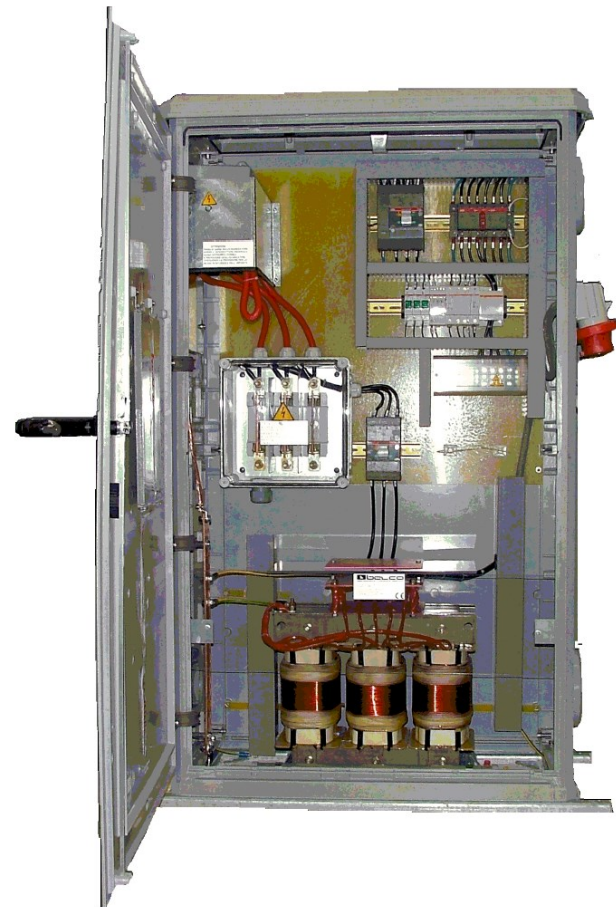
In 2006 it was decided to complete and enrich the Broadcasting offer with the acquisition of the Broadcasting Division of Telesystem srl, a historical company in the antenna sector.



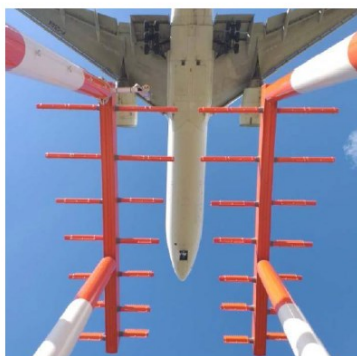


In addition to acting as a distributor for various manufacturers and their products, we have successfully implemented our "Belco" brand of components and equipment over 30 years:

- RF Coaxial connectors and adapters
- RF connection systems
- Low voltage switchboards for power distribution and transmitter/RBS protection
- Transmission antennas and power dividers



Belco specializes in design, engineering and production of custom products based on new requests or existing specifications.



Radio & TV Transmitting System



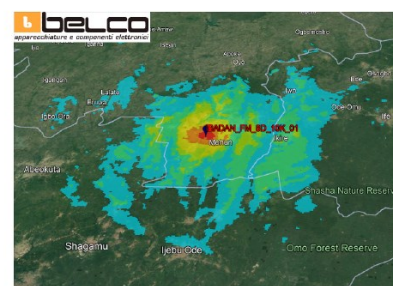
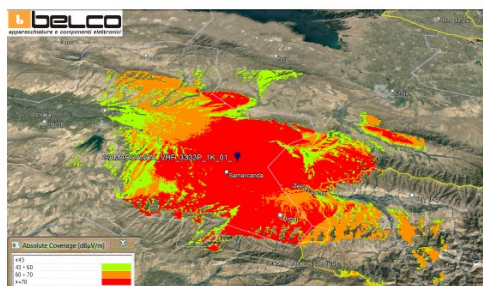
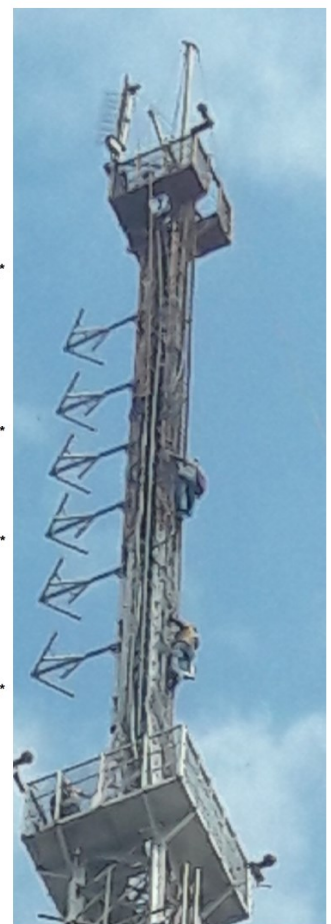
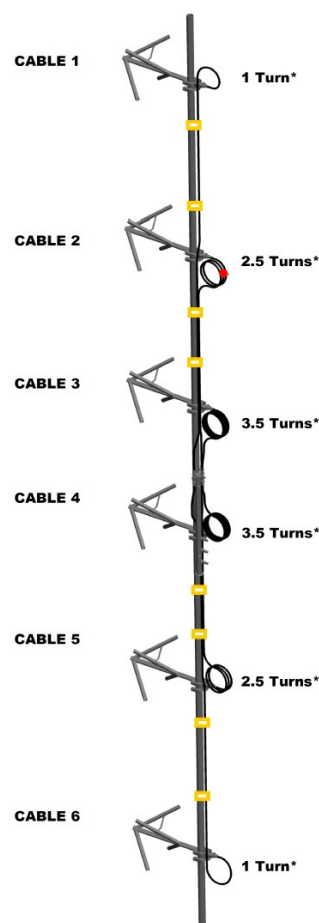
With a wide range of products specifically for Radio and TV Broadcasting applications, Belco can provide a complete antenna system as well as single components:

- Antennas
- Power Dividers
- Branching cables
- Antenna cables
- Feeding cables
- Accessories (Grounding kit, hoisting grip ...)

To assist customer in all typical steps involved in the radio television antenna system realisation, Belco is able to offer, on request, a complete antenna system development service which includes:

- On site survey
- Antenna system analysis
- Antenna lay-out design
- Feeding network design (including beam tilt, vertical null fill and VSWR optimisation)
- Coverage forecast including territory effects and interference analysis
- Commissioning and supervision.

To optimise customer's purchase planning we are able to deliver all antenna system components as well as the related materials (combiners, patch panels, dehydrators etc...) in a unique complete package solution.



70 ÷ 80 MHz

TYPE	DESCRIPTION
BAN014SX	2 elements Yagi Antenna
BAN013SX	3 elements Yagi Antenna
BAN012SX	4 elements Yagi Antenna

BAN014SX

Two Elements Yagi Antenna

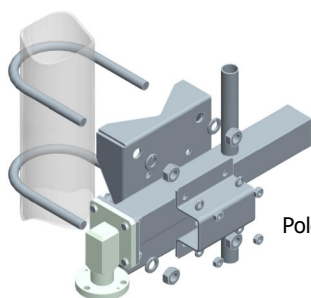
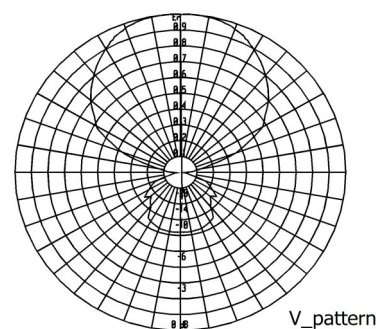
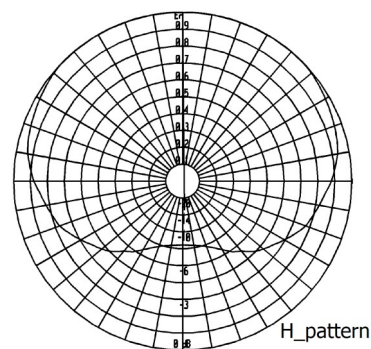
70 ÷ 80 MHz

Type	BAN014SX
ELECTRICAL	
Frequency	70 ÷ 80 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.50 (14.0 dB)
Gain	4.7 dBi
HPBW H-pattern	± 81°
HPBW V-pattern	± 35°
Front to Back	> 20 dB
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	184 N
Wind load at 160 km/h Lateral	230 N
Dimensions	207 x 135 x 13 cm
Weight (incl. Brackets)	10.0 kg
Mounting System	See Below



This antenna is dismountable and is shipped completely disassembled

RADIATION PATTERN



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN014SX.00	N (f)	100W
BAN014SX.01	7-16 (f) din	300W

BAN013SX

Three Elements Yagi Antenna

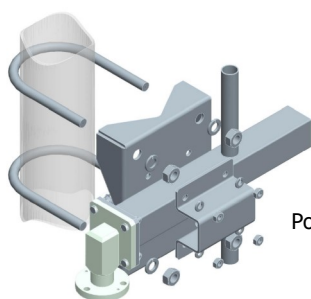
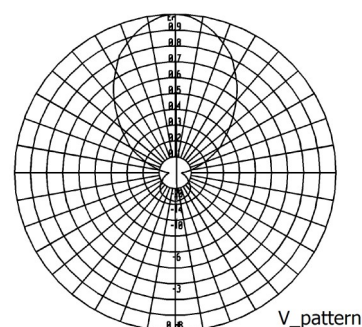
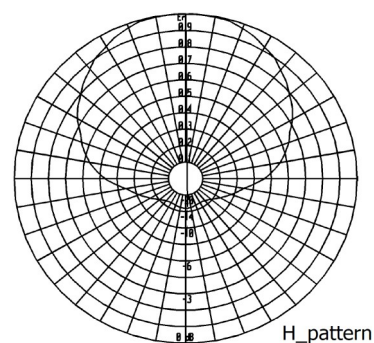
70 ÷ 80 MHz

Type	BAN013SX
ELECTRICAL	
Frequency	70 ÷ 80 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.50 (14.0 dB)
Gain	6.0 dBi
HPBW H-pattern	± 66°
HPBW V-pattern	± 31°
Front to Back	> 20 dB
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	184 N
Wind load at 160 km/h Lateral	290 N
Dimensions	207 x 152 x 13 cm
Weight (incl. Brackets)	11.5 kg
Mounting System	See Below



This antenna is dismountable and is shipped completely disassembled

RADIATION PATTERN



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN013SX.00	N (f)	100W
BAN013SX.01	7-16 (f) din	300W

BAN012SX

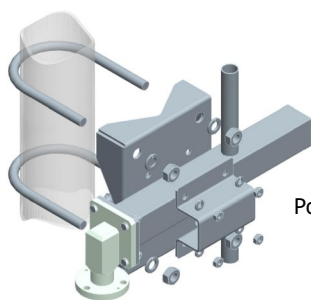
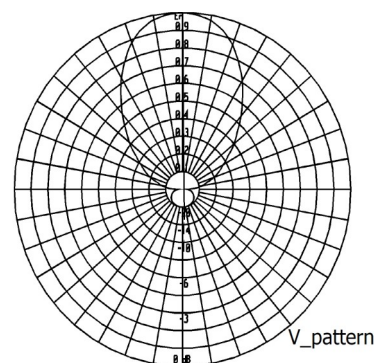
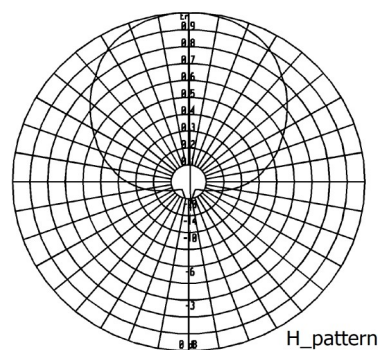
Four Elements Yagi Antenna

70 ÷ 80 MHz

Type	BAN012SX
ELECTRICAL	
Frequency	70 ÷ 80 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.50 (1.40 dB)
Gain	7.5 dBi
HPBW H-pattern	± 56°
HPBW V-pattern	± 31°
Front to Back	> 20 dB
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	184 N
Wind load at 160 km/h Lateral	333 N
Dimensions	207 x 185 x 13 cm
Weight (incl. Brackets)	13.5 kg
Mounting System	See Below



RADIATION PATTERN



Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power
BAN012SX.00	N (f)	100W
BAN012SX.01	7-16 (f) din	300W

146 ÷ 174 MHz

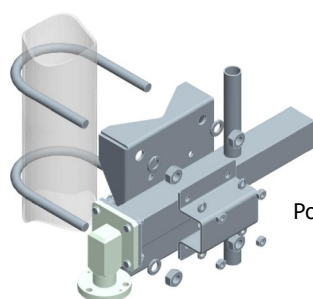
TYPE	DESCRIPTION
BAN04FXA / BAN04SXA	3 elements Yagi Antenna / 3 elements <u>dismountable</u> Yagi Antenna
BAN06FXA / BAN06SXA	4 elements Yagi Antenna / 4 elements <u>dismountable</u> Yagi Antenna
BAN0114FXA	5 elements Yagi Antenna
BAN0112FXA / BAN0112SXA	6 elements Yagi Antenna / 6 elements <u>dismountable</u> Yagi Antenna
BAN07D	Two dipoles Panel Antenna

BAN04FXA / BAN04SXA

Three Elements Yagi Antenna

146 ÷ 174 MHz

Type	BAN04FXA
ELECTRICAL	
Frequency	146 ÷ 174 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.40 (15.6 dB)
Gain	6.1 dBi
HPBW H-pattern	± 63°
HPBW V-pattern	± 32°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	68 N
Wind load at 160 km/h Lateral	149 N
Dimensions	85 x 94 x 6 cm
Weight (incl. Brackets)	7.0 kg
Mounting System	See Below

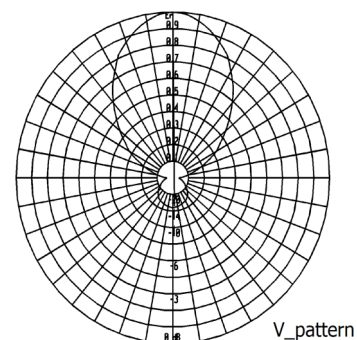
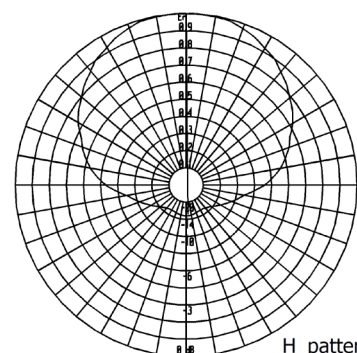


Pole Mount Ø 60÷114 mm

Ordering Information

p/n	Input Connector	Max Power	Lay Out
BAN04FXA.00	N (f)	100W	fully welded
BAN04FXA.01	7-16 (f) din	300W	fully welded
BAN04SXA.00	N (f)	100W	dismountable
BAN04SXA.01	7-16 (f) din	300W	dismountable

RADIATION PATTERN

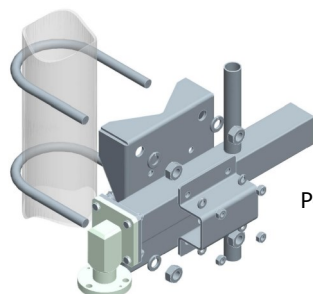


BAN06FXA / BAN06SXA

Four Elements Yagi Antenna

146 ÷ 174 MHz

Type	BAN06FXA
ELECTRICAL	
Frequency	146 ÷ 174 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.35 (16.5 dB)
Gain	7.5 dBi
HPBW H-pattern	± 56°
HPBW V-pattern	± 31°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	68 N
Wind load at 160 km/h Lateral	159 N
Dimensions	100 x 94 x 6 cm
Weight (incl. Brackets)	7.5 kg
Mounting System	See Below

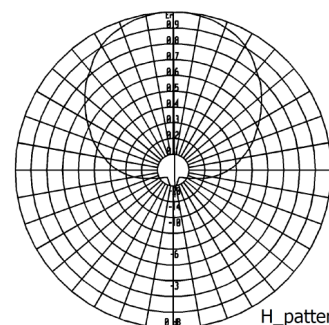


Pole Mount Ø 60÷114 mm

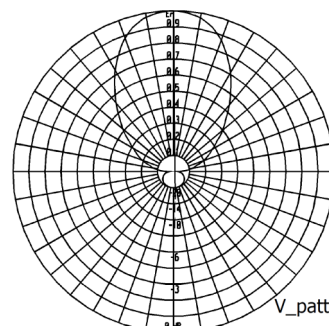
Ordering Information

p/n	Input Connector	Max Power	Lay Out
BAN06FXA.00	N (f)	100W	fully welded
BAN06FXA.01	7-16 (f) din	300W	fully welded
BAN06SXA.00	N (f)	100W	dismountable
BAN06SXA.01	7-16 (f) din	300W	dismountable

RADIATION PATTERN



H_pattern



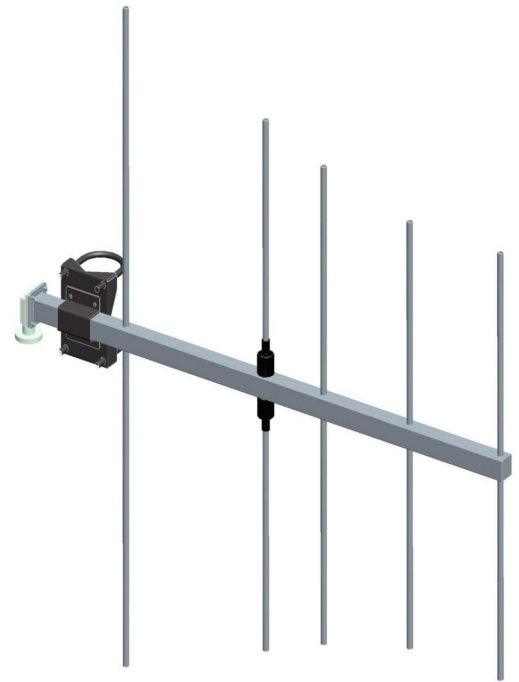
V_pattern

BAN0114FXA

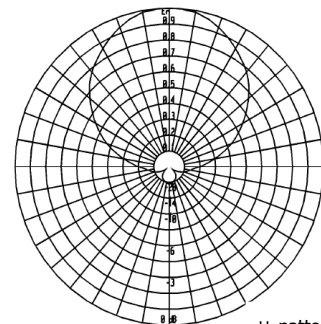
Five Elements Yagi Antenna

156 ÷ 174 MHz

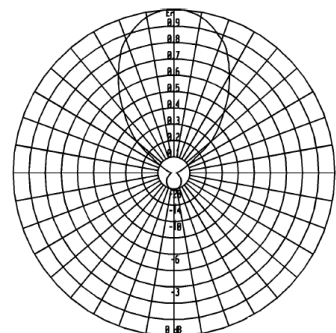
Type	BAN0114FXA
ELECTRICAL	
Frequency	156 ÷ 174 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.35 (16.5 dB)
Gain	9 dBi
HPBW H-pattern	± 47°
HPBW V-pattern	± 29°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	70 N
Wind load at 160 km/h Lateral	203 N
Dimensions	117 x 110 x 6 cm
Weight (incl. Brackets)	8.0 kg
Mounting System	See Below



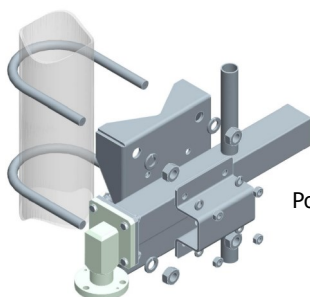
RADIATION PATTERN



H_pattern



V_pattern



Pole Mount Ø 60÷114 mm

Ordering Information

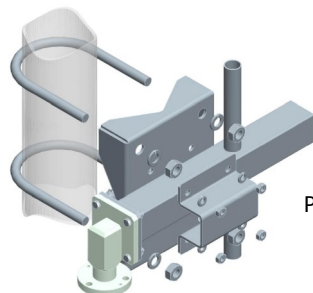
p/n	Input Connector	Max Power
BAN0114FXA.00	N (f)	100W
BAN0114FXA.01	7-16 (f) din	300W

BAN0112FXA / BAN0112SXA

Six Elements Yagi Antenna

156 ÷ 174 MHz

Type	BAN0112FXA
ELECTRICAL	
Frequency	156 ÷ 174 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.35 (16.5 dB)
Gain	9.5 dBi
HPBW H-pattern	± 36°
HPBW V-pattern	± 27°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	75 N
Wind load at 160 km/h Lateral	217 N
Dimensions	160 x 100 x 6 cm
Weight (incl. Brackets)	9.0 kg
Mounting System	See Below

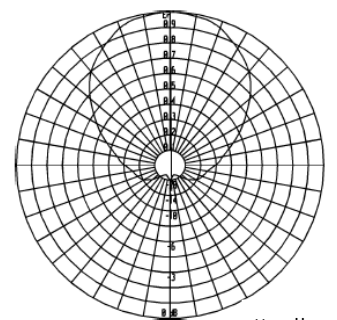


Pole Mount Ø 60÷114 mm

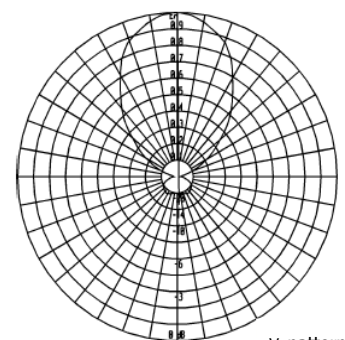
Ordering Information

p/n	Input Connector	Max Power	Lay Out
BAN0112FXA.00	N (f)	100W	fully welded
BAN0112FXA.01	7-16 (f) din	300W	fully welded
BAN0112SXA.00	N (f)	100W	dismountable
BAN0112SXA.01	7-16 (f) din	300W	dismountable

RADIATION PATTERN



H_pattern

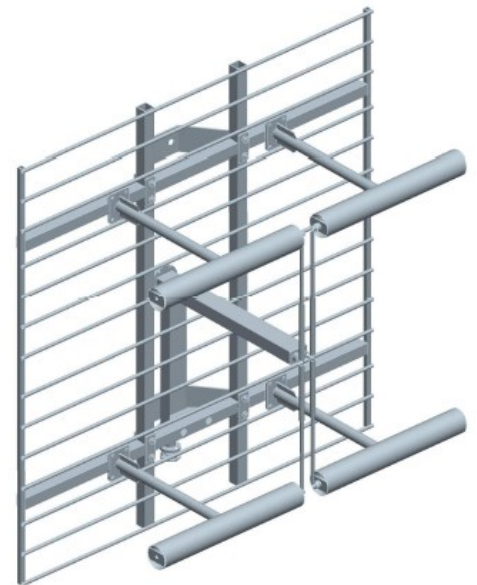


V_pattern

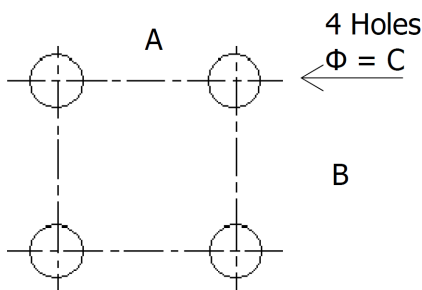
BAN07D

Two Dipoles Panel

156 ÷ 174 MHz



Type	BAN07D
ELECTRICAL	
Frequency	156 ÷ 174 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.20 (20.8 dB)
Gain	10 dBi
HPBW H-pattern	± 30°
HPBW V-pattern	± 27°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	180 km/h
Wind load at 160 km/h Frontal	810 N
Wind load at 160 km/h Lateral	440 N
Dimensions	140 x 140 x 60 cm
Weight (incl. Brackets)	67.0 kg
Mounting System	See Below

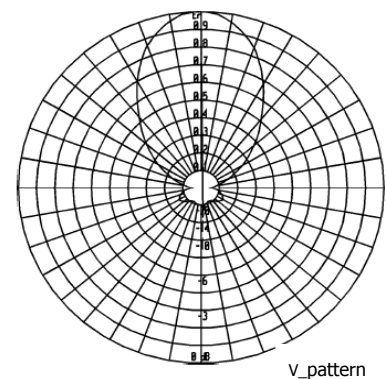
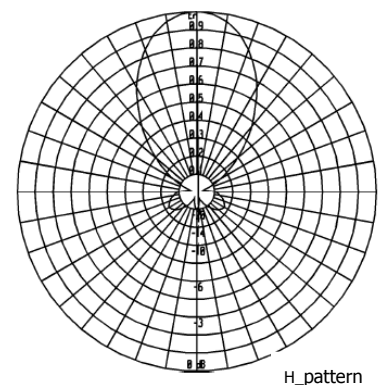


MOUNTING SYSTEM

On frame according with the mounting lay-out beside, where:

- A = 550 mm
- B = 550 mm
- C = 14 mm

RADIATION PATTERN



Ordering Information

p/n	Input Connector	Max Power
BAN07D.00	N (f)	100W
BAN07D.01	7-16 (f) din	300W

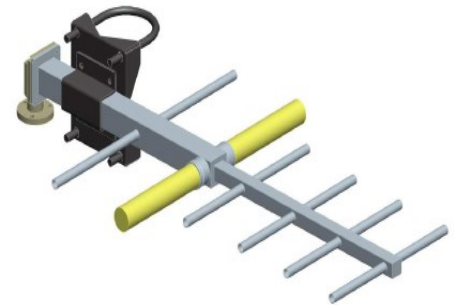
390 ÷ 500 MHz

TYPE	DESCRIPTION
BAN05..FX	Six Elements Yagi Antenna
BAN083..FX	Eight Elements Yagi Antenna
BAN0210A	Eight Elements Yagi Antenna with Reflector
BAN086..FX	Fourteen Elements Yagi Antenna
BAN025..FX	6+6 Elements double Yagi Antenna
BAN084..FX	8+8 Elements double Yagi Antenna
BAN0113HS	Four Dipoles Panel Antenna Hor. Polarization
BAN0113VS	Four Dipoles Panel Antenna Ver. Polarization

BAN05FX

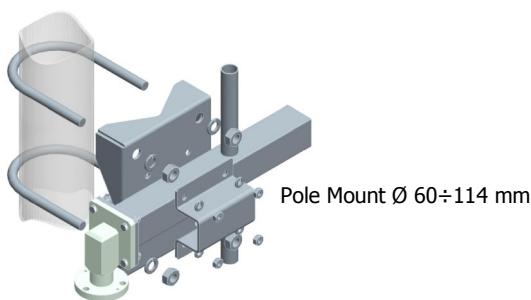
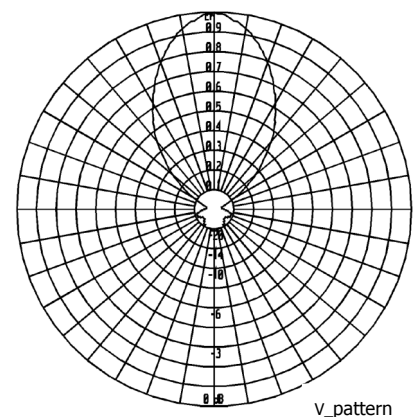
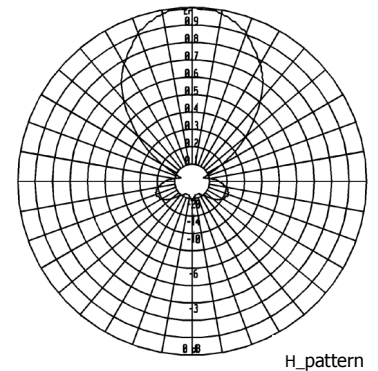
Six Elements Yagi Antenna

360 ÷ 470 MHz



Type	BAN05CFX	BAN05BFX	BAN05AFX
ELECTRICAL			
Frequency	360 ÷ 400 MHz	360 ÷ 435 MHz	435 ÷ 470 MHz
Impedance	50 Ω Unbalanced		
V.S.W.R. (R.L.)	< 1.40 (15.6 dB)		
Gain	9 dBi		
HPBW H-pattern	± 38°		
HPBW V-pattern	± 26°		
Polarization	Horizontal or Vertical		
Max Power	See Below Table		
Input Connector	N (f), 7-16 (f) din		
Lightning Protection	DC Grounded		
MECHANICAL			
Connector Material	Nickel Plated Brass		
External Parts Material	Passivated Stainless Steel		
Internal Lines Material	Polished Brass		
Insulators Material	Virgin PTFE		
Brackets and Hardware Material	Stainless Steel		
Pressurization	Yes		
Survival Wind Velocity	180 km/h		
Wind load at 160 km/h Frontal	47 N	42 N	40 N
Wind load at 160 km/h Lateral	128 N	118 N	110 N
Dimensions	84 x 48 x 6 cm	79 X 42 X 7 cm	75 x 39 x 6 cm
Weight (incl. Brackets)	4.9 kg	4.6 kg	4.3 kg
Mounting System	See Below		

RADIATION PATTERN



Ordering Information

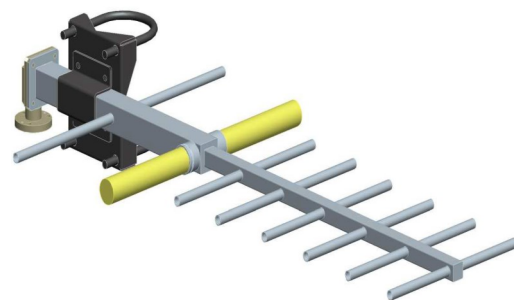
p/n	Input Connector	Max Power
BAN05FX.00	N (f)	100W
BAN05FX.01	7-16 (f) din	300W

BAN083FX

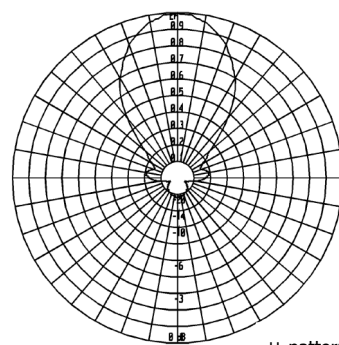
Eight Elements Yagi Antenna

360 ÷ 470 MHz

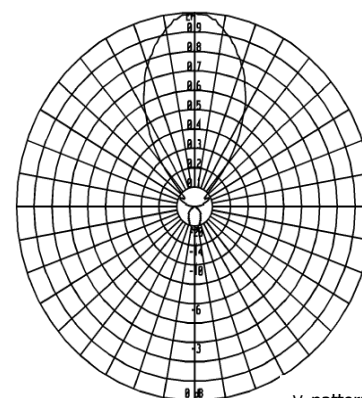
Type	BAN083CFX	BAN083BFX	BAN083AFX
ELECTRICAL			
Frequency	360 ÷ 400 MHz	400 ÷ 435 MHz	435 ÷ 470 MHz
Impedance	50 Ω Unbalanced		
V.S.W.R. (R.L.)	< 1.40 (15.6 dB)		
Gain	10 dBi		
HPBW H-pattern	± 30°		
HPBW V-pattern	± 24°		
Polarization	Horizontal or Vertical		
Max Power	See Below Table		
Input Connector	N (f), 7-16 (f) din		
Lightning Protection	DC Grounded		
MECHANICAL			
Connector Material	Nickel Plated Brass		
External Parts Material	Passivated Stainless Steel		
Internal Lines Material	Polished Brass		
Insulators Material	Virgin PTFE		
Brackets and Hardware Material	Stainless Steel		
Pressurization	Yes		
Survival Wind Velocity	180 km/h		
Wind load at 160 km/h Frontal	59 N	54 N	50 N
Wind load at 160 km/h Lateral	160 N	150 N	110 N
Dimensions	106 x 46 x 6 cm	99 x 42 x 7 cm	93 x 39 x 6 cm
Weight (incl. Brackets)	5.0 kg	4.8 kg	4.5 kg
Mounting System	See Below		



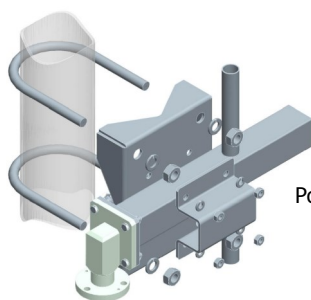
RADIATION PATTERN



H_pattern



V_pattern



Pole Mount Ø 60÷114 mm

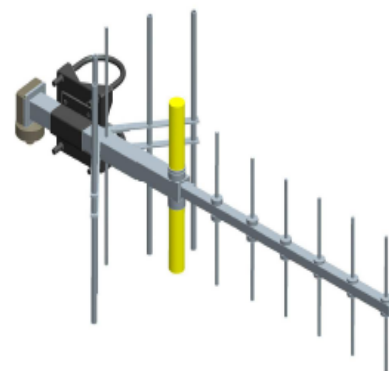
Ordering Information

p/n	Input Connector	Max Power
BAN083.00	N (f)	100W
BAN083.01	7-16 (f) din	300W

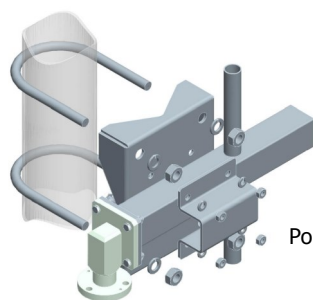
BAN0210A

Eight Elements Yagi Antenna with reflector

435 ÷ 470 MHz

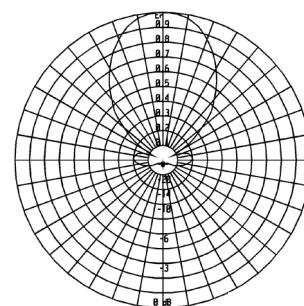


Type	BAN0210A
ELECTRICAL	
Frequency	435 ÷ 450 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.30 (17.7 dB)
Gain	10 dBi
Front to back	- 25 dB
HPBW H-pattern	± 32°
HPBW V-pattern	± 24°
Polarization	Horizontal or Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Polished Brass
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Survival Wind Velocity	200 km/h
Wind load at 160 km/h Frontal	70 N
Wind load at 160 km/h Lateral	180 N
Dimensions	94 x 42 x 31 cm
Weight (incl. Brackets)	5.7 kg
Mounting System	See Below

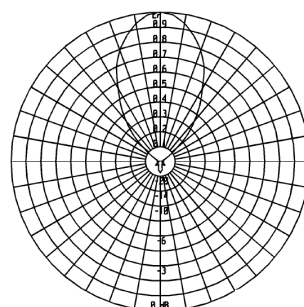


Pole Mount Ø 60÷114 mm

RADIATION PATTERN



H_pattern



V_pattern

Ordering Information

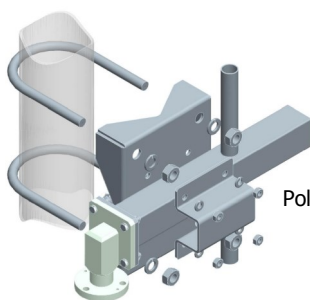
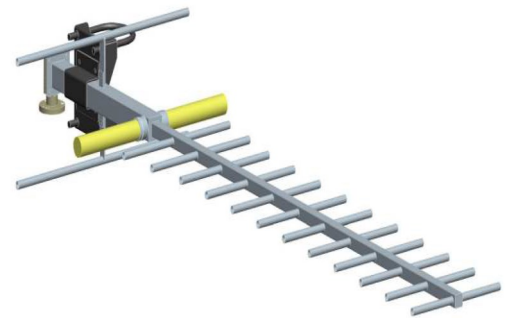
p/n	Input Connector	Max Power
BAN0210A.00	N (f)	100W
BAN0210A.01	7-16 (f) din	300W

BAN086FX

Fourteen Elements Yagi Antenna

360 ÷ 470 MHz

Type	BAN086CFX	BAN086BFX	BAN086AFX
ELECTRICAL			
Frequency	360 ÷ 400 MHz	400 ÷ 435 MHz	435 ÷ 470 MHz
Impedance	50 Ω Unbalanced		
V.S.W.R. (R.L.)	< 1.40 (15.6 dB)		
Gain	12 dBi		
HPBW H-pattern	± 20°		
HPBW V-pattern	± 18°		
Polarization	Horizontal or Vertical		
Max Power	See Below Table		
Input Connector	N (f), 7-16 (f) din		
Lightning Protection	DC Grounded		
MECHANICAL			
Connector Material	Nickel Plated Brass		
External Parts Material	Passivated Stainless Steel		
Internal Lines Material	Polished Brass		
Insulators Material	Virgin PTFE		
Brackets and Hardware Material	Stainless Steel		
Pressurization	Yes		
Survival Wind Velocity	180 km/h		
Wind load at 160 km/h Frontal	80 N		
Wind load at 160 km/h Lateral	238 N	235 N	223 N
Dimensions	165 x 50 x 20 cm	162 x 50 x 20 cm	149 x 50 x 20 cm
Weight (incl. Brackets)	7.3 kg	7.0 kg	6.5 kg
Mounting System	See Below		

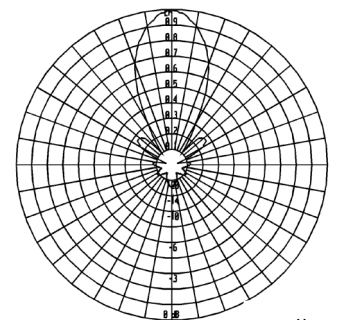


Pole Mount Ø 60÷114 mm

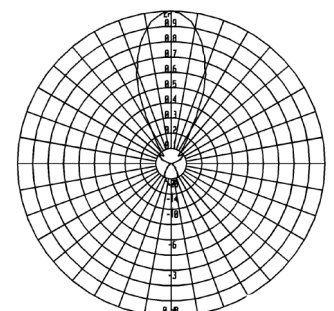
Ordering Information

p/n	Input Connector	Max Power
BAN086FX.00	N (f)	100W
BAN086FX.01	7-16 (f) din	300W

RADIATION PATTERN



H_pattern



V_pattern

BAN0113HS

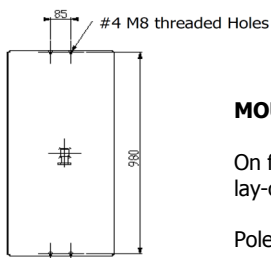
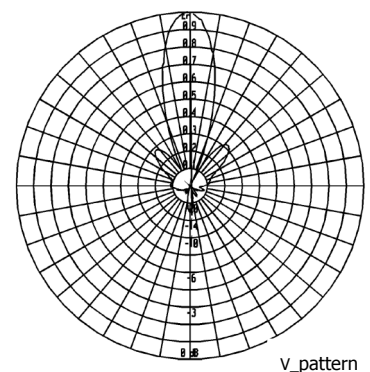
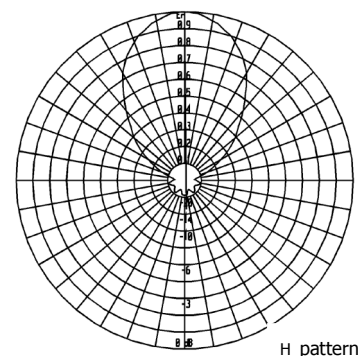
Four Dipoles Panel Antenna

390 ÷ 500 MHz



Type	BAN0113HS
ELECTRICAL	
Frequency	390 ÷ 500 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.25 (19.1 dB)
Gain	12 dBi
HPBW H-pattern	± 30°
HPBW V-pattern	± 18°
Polarization	Horizontal
Max Power	See Below Table
Input Connector	N (f)
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Passivated Alluminium
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Environment Protection	U.V. Resistant Fiberglass Radome
Survival Wind Velocity	210 km/h
Wind load at 160 km/h Frontal	890 N
Wind load at 160 km/h Lateral	400 N
Dimensions	100 x 52 x 25 cm
Weight (incl. Brackets)	17.0 kg
Mounting System	See Below

RADIATION PATTERN



MOUNTING SYSTEM

On frame according to the mounting lay-out beside.

Pole mount available on request

Ordering Information

p/n	Input Connector	Max Power
BAN0113HS.00	N (f)	100W
BAN0113HS.01	7-16 (f) din	300W

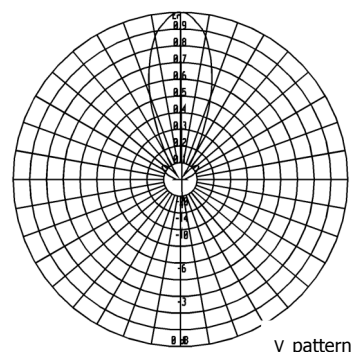
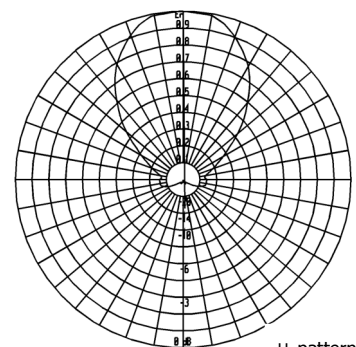
BAN0113VS

Four Dipoles Panel Antenna

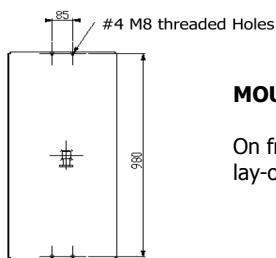
390 ÷ 500 MHz



RADIATION PATTERN



Type	BAN0113VS
ELECTRICAL	
Frequency	390 ÷ 500 MHz
Impedance	50 Ω Unbalanced
V.S.W.R. (R.L.)	< 1.25 (19.1 dB)
Gain	12 dBi
HPBW H-pattern	± 33°
HPBW V-pattern	± 19°
Polarization	Vertical
Max Power	See Below Table
Input Connector	N (f), 7-16 (f) din
Lightning Protection	DC Grounded
MECHANICAL	
Connector Material	Nickel Plated Brass
External Parts Material	Passivated Stainless Steel
Internal Lines Material	Passivated Aluminium
Insulators Material	Virgin PTFE
Brackets and Hardware Material	Stainless Steel
Pressurization	Yes
Environment Protection	U.V. Resistant Fiberglass Radome
Survival Wind Velocity	210 km/h
Wind load at 160 km/h Frontal	890 N
Wind load at 160 km/h Lateral	400 N
Dimensions	100 x 52 x 22 cm
Weight (incl. Brackets)	17.0 kg
Mounting System	See Below



MOUNTING SYSTEM

On frame according to the mounting lay-out beside.

Ordering Information

p/n	Input Connector	Max Power
BAN0113VS.00	N (f)	100W
BAN0113VS.01	7-16 (f) din	300W

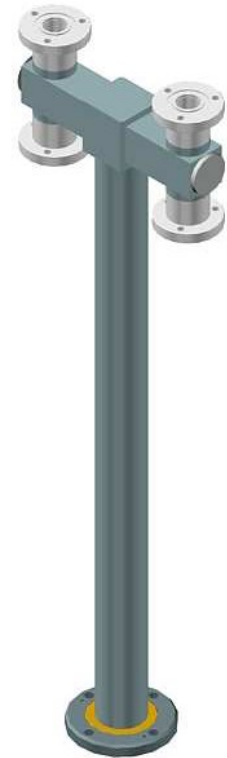
POWER DIVIDERS

DESCRIPTION
EIA 1-5/8" Input Connector Power Dividers
EIA 7/8" Input Connector Power Dividers
DIN 7-16 Input Connector Power Dividers
N Input Connector Power Dividers

EIA 1-5/8" Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	70÷80 MHz	146÷174 MHz	360÷500 MHz
Length approx.	2500 mm	900 mm	610 mm
Input power up to	25 kW	10 kW	5 kW
Impedance	50 Ω		
V.S.W.R. (R.L.)	≤ 1.05 (32.2 dB)		
Input Connector	EIA 1-5/8"		
Insertion Loss	≤ 0.05 dB		
Internal lines material	Silver plated Brass or Aluminium		
Outer conductor	Brass with protective paint		
Output connector	EIA 7/8" or 7-16 (EIA 1-5/8" available on request)		



In-phase outputs.

Standard with rotating input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

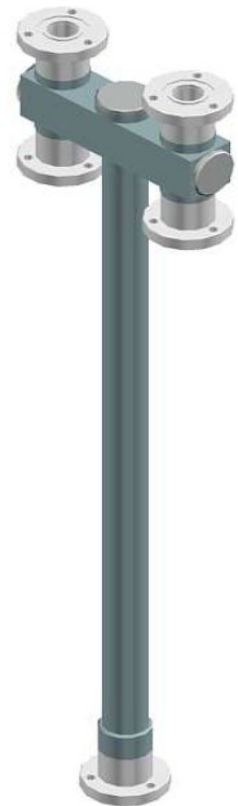
BALANCED POWER DIVIDERS OUT EIA 7/8"			
Number of outputs	70- 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2052	2152	2252
3	2053	2153	2253
4	2054	2154	2254
5	2055	2155	2255
6	2056	2156	2256
8	2058	2158	2258

BALANCED POWER DIVIDERS OUT DIN 7-16" FEM.			
Number of outputs	70- 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2062	2162	2262
3	2063	2163	2263
4	2064	2164	2264
5	2065	2165	2265
6	2066	2166	2266
8	2068	2168	2268

EIA 7/8" Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	70 ÷ 80 MHz	146 ÷ 174 MHz	360 ÷ 500 MHz
Lengh approx.	2500 mm	8900 mm	630 mm
Input power up to	10 kW	3.5 kW	2.5 kW
Impedance	50 Ω		
V.S.W.R. (R.L.)	≤ 1.05 (32.2 dB)		
Input Connector	EIA 7/8"		
Insertion Loss	≤ 0.1 dB		
Internal lines material	Silver plated Brass or Alluminium		
Outer conductor	Brass with protective paint		
Output connector	EIA 7/8" or 7-16 female (N female on request)		



In-phase outputs.

Standard with rotating input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).

BALANCED POWER DIVIDERS OUT EIA 7/8"

Number of outputs	70– 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2032	2132	2232
3	2033	2133	2233
4	2034	2134	2234
5	2035	2135	2235
6	2036	2136	2236
8	2038	2138	2238

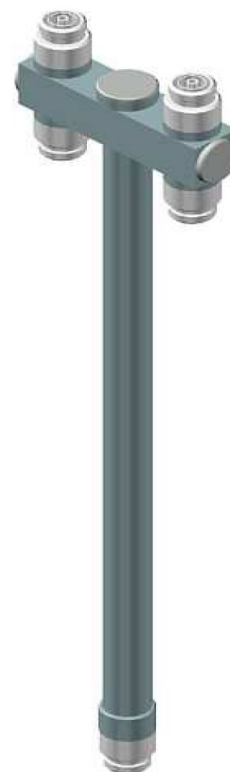
BALANCED POWER DIVIDERS OUT DIN 7-16 FEM.

Number of outputs	70– 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2042	2142	2242
3	2043	2143	2243
4	2044	2144	2244
5	2045	2145	2245
6	2046	2146	2246
8	2048	2148	2248

EIA 7-16 Input Connector Power Dividers

MAIN CHARACTERISTICS

Band	70 ÷ 80 MHz	146 ÷ 174 MHz	360 ÷ 500 MHz
Lenght approx.	2500 mm	890 mm	630 mm
Input power up to	6 kW	2.5 kW	1.5 kW
Impedance	50 Ω		
V.S.W.R. (R.L.)	≤ 1.06 (30.7 dB)		
Input Connector	EIA 7/16"		
Insertion Loss	≤ 0.1 dB		
Internal lines material	Silver plated Brass or Alluminum		
Outer conductor	Brass with protective paint		
Output connector	EIA 7-16 or N female		



In-phase outputs.

Standard with fixed input flanges and fixed output flanges (rotating output flanges on request).

Inners are not included (order separately).

Unbalanced output power dividers available on request.

BALANCED POWER DIVIDERS OUT EIA 7-16 FEM			
Number of outputs	70– 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2012	2112	2212
3	2013	2113	2213
4	2014	2114	2214
5	2015	2115	2215
6	2016	2116	2216
8	2018	2118	2218

BALANCED POWER DIVIDERS OUT DIN N FEM.			
Number of outputs	70– 80 MHz	146 - 174 MHz	360 - 500 MHz
2	2022	2122	2222
3	2023	2123	2223
4	2024	2124	2224
5	2025	2125	2225
6	2026	2126	2226
8	2028	2128	2228

N Input Connector Power Dividers

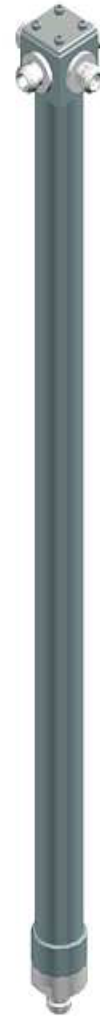
MAIN CHARACTERISTICS

Band	146 ÷ 174 MHz	360 ÷ 500 MHz
Length approx.	2500 mm	1650 mm
Input power up to	6 kW	3 kW
Impedance	50 Ω	
V.S.W.R. (R.L.)	≤ 1.10 (26.4 dB)	
Input Connector	N Female	
Insertion Loss	≤ 0.12 dB	
Internal lines material	Silver plated Brass or Alluminium	
Outer conductor	Brass with protective paint	
Output connector	N female	

In-phase outputs.

Unbalanced output power dividers available on request.

Brackets for pole mounting (70 - 114mm) type ST-PS-78-158 (order separately).



BALANCED POWER DIVIDERS OUT N FEM.		
Number of outputs	146 - 174 MHz	360 - 500 MHz
2	2102	2202
3	2103	2203
4	2104	2204

Belco makes every effort to maintain the accuracy and quality of the information provided on this Catalogue. However, Belco cannot guarantee and assumes no legal liability or responsibility for the accuracy or completeness of the information provided. The information contained on this catalogue is for general guidance only and are subject to change without prior notice. You should take appropriate professional advice on your particular circumstances because the application of our equipment may vary depending on particular circumstances. The copyright of all content on this catalogue is owned by Belco. No part of the Belco catalogue may be changed, reproduced, stored in or transmitted on any website or medium without the prior written permission of Belco. Requests to republish any material must be sent to info@belcoproducts.it



b belco
apparecchiature e componenti elettronici

BELCO S.r.l – Via Lodi 86 - 21042 Caronno Pertusella (VA)
tel. +39 02 963981 - info@belcoproducts.it
www.belcoproducts.com