

BC400

UHF CB PORTABLE RADIO

- 5/2/1W Output Power
- 80 Channel CB (477MHz)
- 48 Dealer Programmable Channels (403 - 520MHz)
- Rugged to MIL-STD-810 D/E/F
- IP65 Rated



Powerful Audio
A powerful 1000 mW speaker ensures high quality, clear, crisp sound, even in noisy environments.

Built In Voice Inversion Encryption
The scrambler feature provides enhanced security for your important public safety and private security communications.

Selectable CTCSS Privacy Tones
CTCSS Tones can be selected via the front key pad of the radio as required. This allows the user to eliminate interference from other local users on the same channel when they choose, providing privacy.

Rugged & Reliable
The BC400 series portable has been built to withstand the most demanding and harsh environments and complies to MIL-STD810 D, E, & F.

Water + Dust Resistant IP65
The BC400 series portable is rated to IP65 providing protection against dust and low pressured jets of water.

Multiple Signalling Options
These radios provide a wide range of signalling options allowing dealers maximum flexibility in configuring systems. Signalling options include: CTCSS, 2 Tone, 5 Tone, DTMF encode and decode.

INCLUDED RADIO ACCESSORIES

- Remote Speaker Microphone
- Rapid Desktop Radio Charger
- 240V AC Adaptor
- 12V DC Adaptor



+ Antenna, Belt Clip & Handstrap
A wide range of optional professional accessories are available. Please refer to our website.



OUTREACH

LAND MOBILE UHF / 27MHZ CB / CELLULAR ANTENNAS

APPLICATION

FEATURES

LENGTH (cm)

GAIN (dB)

TERMINATION

PART NUMBER(S) ANTENNA NAME	UHF 477MHZ CB																	CELLULAR						
	02152 REDBACK	02623 HI-GLASS	026231 (STEEL) 026231BK (BLACK) HI-STEEL	026264 FAZE 4	02629 ADVENTURER	02632 XTENDER	02634X (FIXED) 02634XC (REMOVABLE) FLEXI-DIPOLE	02634ZMC RUGGED FLEXI-DIPOLE	02635 EXPLORER	02637 TRUCKIE	02638 (BLACK) 02638W (WHITE) 4WHEELER	026383C (BLACK) 026383CW (WHITE) UHF STUMPY	026384 (BLACK) 026384W (WHITE) UHF 900 TWIN	026384C (BLACK) 026384CW (WHITE) UHF 900 R-TWIN	026385 (BLACK) 026385W (WHITE) UHF 1100 TWIN	026385C (BLACK) 026385CW (WHITE) UHF 1100 R-TWIN	026382K (BLACK) 026382KW (WHITE) MINI DESERT STICK	026386K (BLACK) 026386KW (WHITE) DESERT STICK	02648 BASE 8	02649 BASE 12	02459 CELL REACH	024574 (BLACK) 024574W (WHITE) CELL 900 TWIN	024577 (BLACK) 024577W (WHITE) CELL 900 R-TWIN	024576 (BLACK) 024576W (WHITE) CELL 1100 TWIN
92cm	65cm	67cm	150cm	130cm	87cm	31cm 33cm	33cm	93cm	85cm	120cm NEW	90cm	90cm	90cm	110cm	110cm	120cm	205cm	230cm	420cm	82cm	90cm	90cm	110cm	110cm
Mobile 27MHz GP	Mobile 477Mhz GP			Mobile 477Mhz GPI		Mobile 450-520MHz GPI		Mobile 477MHz GPI						Fixed Base 477MHz GPI	Mobile NextG 850 GPI	Mobile 3G NextG/3G 850/900/1800/2200 GPI								
Pre-tuned, epoxy coated, rugged & flexible	Ideal for corrugated and rough roads. Braided conductor.	17/7PH polished S/S metal tip. Rugged & flexible.	Tapered Epoxy.	Rugged, long range. Can be mounted anywhere on vehicle. Ideal for 4WDs.	Light-weight GPI ideally suited for 2WD vehicles.	Flexible & compact. Ideal emergency antenna for temporary replacement of large colinears.	Ultra rugged, broad-band, flexi dipole. Full band operation.	Rugged & reliable, includes spare emergency whip. Ideal for 4WDs. 3dB hills, 6.5dB flat terrain.	Hi performance/range. Can be mounted anywhere on the vehicle. Ideal for trucks. Mirrors & gutters.	Convenient, all situations covered. Rugged dual antenna, fiberglass enclosed. 3dB hills, 6.5dB flat terrain.	Compact and rugged. Fiberglass enclosed. Removable.	Rugged construction. S/S spring mounted with fixed and removable options. Ideal for garaged vehicles.		Rugged construction. S/S spring mounted with fixed and removable options. Higher gain.		High gain, high performance. Ultra rugged, all S/S construction. 3mm fiberglass removable push/pull N plug & socket.		Heavy duty fiberglass with S/S mount tube. High performance.		S/S whip, elevated feed	Rugged construction. S/S spring mounted with fixed and removable options. Ideal for garaged vehicles.		Rugged construction. S/S spring mounted with fixed and removable options. Ideal for garaged vehicles. Higher gain.	
92	65	67	150	130	87	31(X) 33(XC)	33	93 (6.5) 16 (3)	85	120 (6.5) 50 (3)	50	90	90	110	110	120	205	230	420	82	90	90	110	110
0	4.5		6	9	6.5	4	4	3 / 6.5	6.5	4 / 6.5	3	3	3	6.5	6.5	8	8	12	8	8	3 / 6	3 / 6	3 / 7.5	3 / 7.5
VHF Base 5/16" F thread	UHF Base 5/16" female thread			UHF M-Base		Stud (X) UHF M-Base (XC)	UHF M-Base	5m RG58, FMEs, UHFp adaptor (supplied)					Base, 5m RG58 + plugs (K & KWT only)		N Socket		5m LL195 low loss cable w/ FME socket fitted							

dB gain reference is relative to 1/4 wave on ground plane. GPI (Ground Plane Independent) Antenna operates independently of vehicle and can be mounted anywhere. GP (Ground Plane) Antenna requires UHF antenna base with contact to vehicle to operate. Refer to back page for an in-depth antenna guide.

ANTENNA ACCESSORIES

MOUNTING, BASES, LEADS & MORE

MOBILE ANTENNA MOUNTING

027145	Fold Down Gutter Bracket S/S
027265	Heavy Duty Gutter Bracket S/S
02728	Mirror/Roof Bracket Bar S/S
02728B	Mirror/Roof Bracket Bar ZPS
02729	Wall Bracket 100mm S/S
027291	Light Weight L Bracket S/S
02730	Bull Bar Bracket - Right Angle S/S
02730B	Bull Bar Bracket - Right Angle ZPS
027303	Adjustable Swivel "Lip" Mount
027313	Wrap Around Bull Bar Bracket 45mm
027314	Wrap Around Bull Bar Bracket 50mm
02732	Heavy Duty Bull Bar Bracket 64mm Tube S/S
027321	Heavy Duty Bull Bar Bracket 76mm Tube S/S
02734	'Z' Trunk Groove Bracket S/S
02734B	'Z' Trunk Groove Bracket ZPS
027423	'Super Sucker' Magnetic Suction Base 16mm Hole
02795	UHF Adaptor 5/16" Male to M Base

BASE ANTENNA MOUNTING

02811	Parrallel Mounting Bracket 90/60mm ZPS
02811S	Parrallel Mounting Bracket 90/60mm S/S

MOBILE ANTENNA BASES

02720	Black VHF Standard Base 5/16" 26 TPI
02724	'Big Mag' H/D 140mm Mag Base - M Base/UHF Socket & 4m x RG58 to UHFp
02740	UHF Standard Base 5/16" M 26TPI
02742	UHF Heavy Duty Base 5/16" Male to UHF Socket

MOBILE ANTENNA LEADS & ACCESSORIES

10106F	VHF Base 3.6m RG58 & UHFp Fitted
101046	5m FMEs to FMEs Extension Cable for 10109C
10108	UHF Base 3.6m RG58 to UHFp Fitted
10109	UHF M Base 5m RG58 to FME Socket Fitted
10109C	UHF M Base 450mm LL100 Black to FME Plug
10101	Jumper Lead UHFp to UHP 350mm
173810	UHF 2Way Switch - 2 in x 1 out

BASE ANTENNA LEADS

101210	UHF Plug to N Plug 10m x RG213
101215	UHF Plug to N Plug 15m x RG213

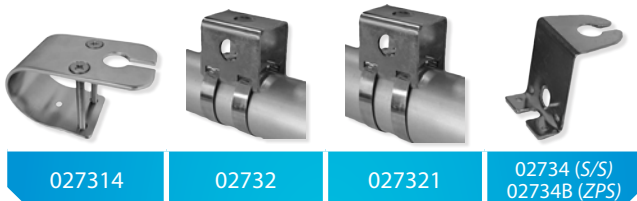
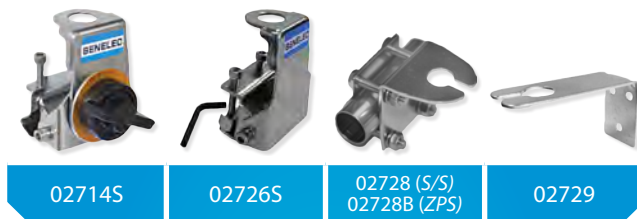
DC POWER LEADS

10505	2 Pin, 2 Amp In-Line Fuse & Holder Suitable for Uniden
10507	2 Pin "T" Secure Plug 4mm ² x 20 Amp Fused + & -ve
10510	2 Pin, 2 Amp In-Line Fuse & Holder Suitable for GME

ANTENNA TEST INSTRUMENT

0301	VSWR/Power Meter 1.8-525MHz
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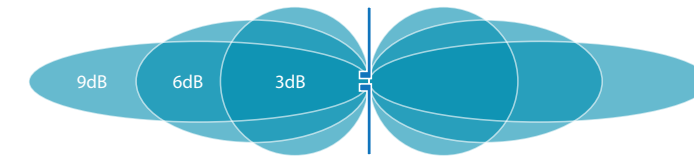
S/S - Stainless Steel
ZPS - Zinc Plated Steel



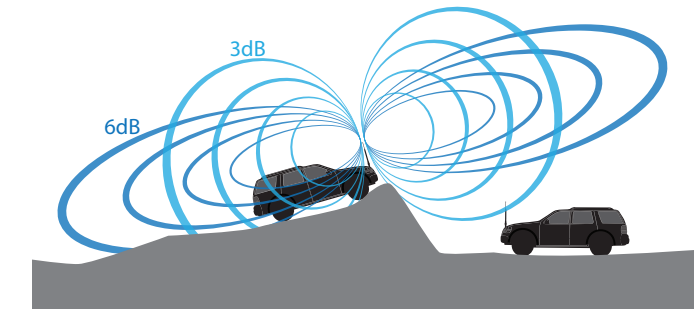
ANTENNA SELECTION GUIDE

WHICH ANTENNA DO I NEED?

Gain describes the shape of the radiation from an antenna. Use a higher gain antenna for better performance in open flat terrain. Use a lower gain antenna for better performance in rough mountainous terrain.



We recommend the use of a lower gain antenna for the communications in vehicle convoy situations.



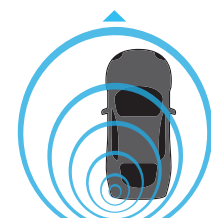
When operating between mountainous and open terrain, think about choosing an antenna with interchangeable high gain and low gain whip tops, or use two antennas with an RF switch.

Note that Stainless Steel whip antennas will not last on corrugated roads. They are not suitable for this application.

GP/GPI RADIATING PATTERNS

Ground Plane Independent (GPI) antennas can be mounted anywhere on the vehicle.

These antennas work independently of the vehicle body, and as such they provide consistent performance all the way around the antenna.



Grounded Plane (GP) antennas rely on the metal surface of the vehicle for performance. If you mount this style of antenna on the edge of a vehicle, the radiation pattern will be biased towards the area with the largest amount of metal (an offset pattern).

There will also be a deterioration in the VSWR of grounded antennas that are mounted on the edge of the vehicle. Grounded antennas generally should only be mounted in the centre of the vehicle roof.

CONNECTOR ADVICE

We recommend to add a thread locking adhesive (eg Loctite 242 Blue - Threadlocker Medium Strength) at the interface between the cable connector (FME socket) and the UHF plug adaptor as it's possible for this connection to vibrate loose over time.

Exposed connectors should be sealed with self amalgamating tape such as Benelec P/N 5052219BK or equivalent.

CABLE ADVICE

Care must be taken to not damage, cut or crush the coaxial cable when routing it to the transceiver through a vehicle.

We recommend to seal any points where the cable enters the vehicle.

MOUNTING TIPS & ADVICE

- For better performance locate the antenna higher on the vehicle.
- Brackets and antenna mountings are to be secured properly.
- Antennas must be mounted vertically, this is particularly important with higher gain antennas.
- Avoid affixing any object to the antenna as it could affect the performance of the communications system.
- Ground Plane antennas need to be fitted direct to vehicle panels, as bracket mounting will compromise the performance.
- Do not mount antennas close to each other. Min distance should be 70cm between antennas. The further apart the two antennas, the better the performance of each respective antenna.
- Do not mount antennas closer than 70cm to any metal vertical surface.
- Do not mount antennas operating on the same band, at the same horizontal level unless a switch selects them.

Available from:

Professional Wireless Solutions

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