



# WHXA100-BD BI-DIRECTIONAL ANTENNA

- High Gain
- Rugged Construction
- Ideal for mining environment

## FEATURES

The Becker Mining Systems' WHXA100-BD tunnel antenna is the ideal antenna for 2.4-2.5 GHz wireless applications in tunnels. In tests, both the data rate and range achieved with this antenna was greater than obtained when using linearly polarized panel antennas of the same gain.

The hardy construction of this antenna makes it ideal for the mining environment. WHXA100-BD is a Bi-directional antenna whilst the closely related WHXA100-UD fires in one direction.

## TECHNICAL DATA

MECHANICAL DATA	
Product Dimensions (L x W x D)	2050 mm x 140 mm x 140 mm
Packaged Dimensions	2100 mm x 150 mm x 190 mm
Weight	5.1 kg
Packaged Weight	6.02 kg
Radome Material	PVC
Radome Colour	429C RAL 7038

ELECTRICAL DATA	
Frequency Bands	2400 - 2500 MHz
Gain (Max)	14 dBi
VSWR	<2.0:1
Feed Power Handling	10 W
Input impedance	50 Ohm (nominal)
Polarisation	Circular
DC Short	No

ENVIRONMENTAL DATA	
Temperature Range (Operating):	-20 °C to +70 °C
Environmental Conditions:	Outdoor/Indoor
Operating Relative Humidity	Up to 98%
Storage Humidity	5% to 95% - non condensing
Storage Temperature	-20 °C to +70 °C

APPROVALS	
Flammability rating	UL 94-V0
Water Ingress Protection Ratio/ Standard	IP 65 (NEMA 4X)
Impact resistance	IK 08

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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