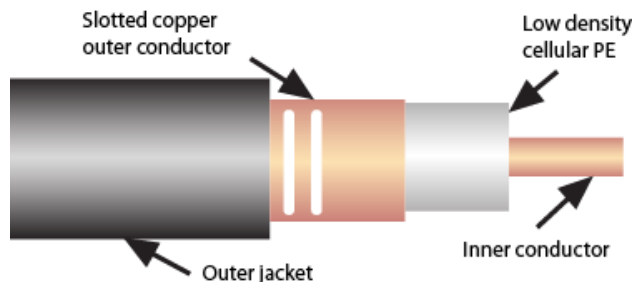![ProSoft Technology logo]

DATASHEET

5 GHz Bulk Radiating Cable
RCHB-500M, RCHB-1000M, RCHB-1500M

ProSoft Technology Radiating Cable is specially designed to radiate 802.11a and 802.11n RF signals.

Acting as a long, flexible antenna, the Radiating Cable may be installed along monorail systems, overhead cranes and through tunnels to propagate wireless data signals in situations tough for traditional antenna systems.

Specially tested with ProSoft Technology 802.11 Fast Industrial Hotspots utilizing Fast Roam Technology, the Radiating Cable product line offers reliable and flexible options in challenging RF environments.

Slotted copper outer conductor · Low density cellular PE · Outer jacket · Inner conductor

Features

♦ Special coaxial shield design uses slots to radiate RF signals which acts like a long, flexible antenna to solve challenging RF situations

♦ Supports 5 GHz RF band wireless technologies, optimized for 802.11a and 802.11n wireless LAN systems

♦ Available in 500, 100, and 1500 meter spools

♦ Halogen-free low smoke flame retardant jacket meets most fire code requirements (check with local regulations)

Specifications

RCHB-xxxxM

Size	0.5 inch
Frequency Range	5 GHz to 6 GHz
Jacket	Halogen-free low smoke flame retardant
Slot Design	Groups of slots at short intervals
Indication of Slot Alignment	Sheath Marking (180º)
Impedance	50 Ohm
Typical Attenuation	
5 GHz	22 dB/100 m (6.86 dB/100 ft)
5.85 GHz	24 dB/100 m (7.3 dB/100 ft)
Velocity Ratio	88%
Capacitance	76 pF/meter
Dielectric Material	Cellular polyethylene
Diameter Inner Conductor	4.8 mm (0.19 in)
Diameter Dielectric	12.4 mm (0.49 in)
Diameter over Jacket	15.5 mm (0.61 in)
Minimum Bending Radius (single bend)	200 mm (7.87 in)
Recommended Hanger/Clamp Interval	One per meter (3.3 ft)
Storage Temp	-70 to +85ºC (-94 to +185ºF)
Installation Temp	-25 to +60ºC (-13 to +140ºF)
Operating Temp	-40 to +85ºC (-40 to +185ºF)

Ordering Information

To order this product, please use the following:

RCHB-500M	500 meters cable spool
RCHB-1000M	1,000 meters cable spool
RCHB-1500M	1,500 meters cable spool

Where Automation Connects™ Global Distribution

ProSoft Technology® products are distributed and supported worldwide through a network of over 500 distributors in over 50 countries. Our knowledgeable distributors are familiar with your application needs. For a complete list of distributors, go to our web site at:

www.prosoft-technology.com

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5GHz Bulk Radiating Cable

RCHB-500M
RCHB-1000M
RCHB-1500M

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:
www.prosoft-technology.com

and select *How to Buy* from the menu.