DATASHEET

2.4 GHz Terminated Radiating Cable
RCL50-50-xxxM

The ProSoft Technology RCL50-50-xxxM Radiating Cable is specially designed to radiate 802.11g and 802.11n RF signals operating in the spread spectrum 2.4 GHz band.

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.

The cable is pre-terminated with N-Female connectors saving time during installation. It also includes the proper number and type of hangers to facilitate your installation. It is available in multiple lengths to meet the needs of your application.

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.

Features

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

♦ Supports 2.4 GHz RF band wireless technologies, optimized for 802.11g and 802.11n wireless LAN systems

♦ Pre-terminated with N female connectors to save time during installation

♦ Includes the proper number and type of hangers for easy installation

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

Specifications

RCL Terminated Cable

Size	1.27 cm (0.5 in)
Frequency Range	Up to 2.9 GHz
Connectors	Two (2) N-Female jack
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	
900 MHz	7.32 dB/100 m (2.22 dB/100 ft)
2.4 GHz	14.71 dB/100 m (4.47 dB/100 ft)
Velocity Ratio	88%
Capacitance	76 pF/m
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 Temperature	-70 to +85ºC (-94 to +185ºF)
Installation Temperature	-25 to +60ºC (-13 to +140ºF)
Operating Temperature	-40 to +85ºC (-40 to +185ºF)

Ordering Information

Please contact ProSoft Technology Support to order this product:

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