



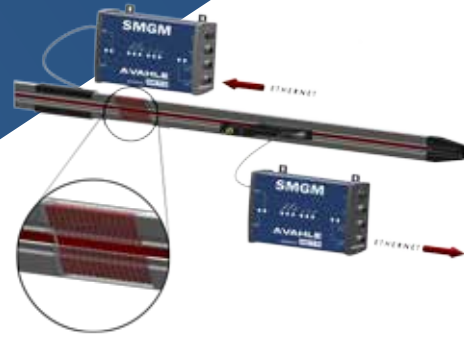
**vCOM**  
**SLOTTED MICROWAVE GUIDES**



**THE LEADER IN DATA  
COMMUNICATION SYSTEMS**

# vCOM - DATA COMMUNICATION SYSTEMS

vCOM is VAHLE's line of Slotted Microwave Guides which offer secure, reliable, and contactless data transmission solutions for mobile applications. Two unique SMG profiles offer interference-free data transmission at up to 100Mbps. Each SMG profile is fully integrable with VAHLE's line of power, positioning, & control products for a complete automation solution.



## SMG AT A GLANCE

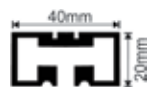
Consisting of a stationary antenna, extruded aluminum profile and mobile coupler, each SMG profile provides wireless Ethernet communication. The unique design of each SMG profile prevents signals from transmitting beyond or into the housing, thus allowing it to work alongside other industrial radio systems.

Reliable signal quality is maintained with the use of low-wear skirts and pressure springs on each mobile coupler to maintain positive contact with the profile. Data transmission through SMG occurs without change during the transfer and does not require IP addresses.

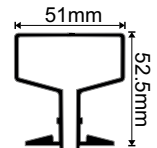


## SYSTEM TYPES

**SMGM**



**SMGX**



Type	Dimensions	Interface	User per Segment	Max Segment Length	Profile Length	Minimum Curve Radius	Travel Speed
SMGM	40mm x 20mm	Ethernet	Up to 15	Up to 200m	6 meters	Horizontal - 750mm Vertical - 2300 mm	180 m/min
SMGX	51mm x 52.5mm	Ethernet	Up to 4	Up to 500m	6 meters	N/A	130 m/min

# SECURE & RELIABLE WIRELESS COMMUNICATION



## SMGM

- Indoor applications
- Ideal for EMS lines or other assembly automation
- Many consumers per segment
- Speeds up to 100Mbps
- Full duplex communications
- Easy integration with vCONDUCTOR, vPOS, & vDRIVE products for complete automation solution

## SMGX

- Indoor/Outdoor applications
- Robust design withstands demanding conditions
- Real-time data transfer with low latency
- Reliable transmission independent of vehicles travel speed
- Speeds up to 100Mbps



## INDUSTRY 4.0 SOLUTIONS

As a provider of reliable conductor bar solutions since 1912, VAHLE has expanded its expertise to include fully integrable communication, positioning and control solutions. VAHLE partners are provided with a complete solution to bring advanced automation to your application.





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