

Velocity of Propagation

This is a measure of how fast a signal travels along a line. A radio signal travels in free space at the speed of light, approximately 3×10^8 m/sec. A signal travels in a transmission line at much less than this. In twisted pair cable the Velocity of Propagation may be between 40% and 75% of the velocity in free space. There is a direct relationship between Velocity of Propagation (V) and Wavelength:

$$V = lf$$

Vp is often stated either as a percentage of the speed of light or as time-to distance. When the time-to-distance figure is used, it may be known as Propagation Delay, and will be expressed as ns/100m or ms/km.

Contact Us

United States & Canada:

Chauvin Arnoux®, Inc.
d.b.a. AEMC® Instruments
200 Foxborough Blvd.
Foxborough, MA 02035 USA
(508) 698-2115 • Fax (508) 698-2118
www.aemc.com

Customer Support – for placing an order, obtaining price & delivery:
customerservice@aemc.com

Sales Department – for general sales information:
sales@aemc.com

Repair and Calibration Service – for information on repair & calibration, obtaining a user manual:
repair@aemc.com

Technical and Product Application Support – for technical and application support:
techinfo@aemc.com

Webmaster – for information regarding www.aemc.com:
webmaster@aemc.com

South America, Central America, Mexico, Caribbean, Australia & New Zealand:

Chauvin Arnoux®, Inc.
d.b.a. AEMC® Instruments
15 Faraday Drive
Dover, NH 03820 USA
(978) 526-7667 • Fax (978) 526-7605
export@aemc.com
www.aemc.com

All other countries:

Chauvin Arnoux SCA
190, rue Championnet
75876 Paris Cedex 18, France
33 1 44 85 45 28 • Fax 33 1 46 27 73 89
info@chauvin-arnoux.com
www.chauvin-arnoux.com