■ DIFFERENCES BETWEEN CAN AND AVC-LAN

The protocols, which are the rules for establishing data communication, differ between the CAN and AVC-LAN. If the ECUs in the networks use different frameworks for their data, such as communication speed, communication wire, and signals, they will be unable to understand each other. Therefore, protocols (rules) must be established among them.

- Compared to the AVC-LAN, the CAN features high-speed data transmission. Therefore, the CAN is able to transmit larger amounts of data faster than other protocols. This feature makes it possible to transmit data accurately for the power train and chassis control system, which requires large amounts of data to be transmitted in short periods of time.

Protocol	CAN		AVC-LAN
	HS-CAN	MS-CAN	
Communication Speed	500 kbps* (Max. 1 M bps)	250 kbps*	Max. 17.8 kbps*
Communication Wire	Twisted-pair Wire	←	←
Drive Type	Differential Voltage Drive	←	←
Data Length	1-8 Byte (Variable)	←	0-32 Byte (Variable)

bps*: abbreviation for “Bits Per Second”, indicating the number of bits that can be transmitted per second.