Networking High-Speed Landscape

Unshielded Solutions Multi-Gigabit Shielded Solutions **CABLE TYPE HSAL1** In-Vehicle Databus, Displays, Camera STP **HSAL2** Twisted Pair) In-Vehicle Databus, Displays, GPS, Camera STP/UTP **HSAL2 Hybrid** / **HSAL2 Hybrid /** (Shielded Twisted Mini50 Mini50 Pair/Unshielded **IVDS** Ethernet Twisted Pair) **HSAG** ADAS, Autonomous Driving Compute Module, (Shielded Twisted Pair/Shielded Gateway/Switches, 4k/8k Resolution Display Parallel Pair) COAX Sensors, Camera, Radar, Lidar, Navigation, Radio, Internet GPS, Antenna

PRODUCT	# PAIRS/COAX	SIGNALING PROTOCOL
<u>HSAL1</u>	1-2 pairs	USB, LVDS, A2B, Low Speed Ethernet
<u>HSAL2</u>	1-4 pairs	USB3.0, LVDS, Multi-Gigabit Ethernet
HSAL2 Hybrid / Mini50	1 pair	Mixed: LVDS, Ethernet, USB2.0, BroadR-Reach
<u>HSAG</u>	1-4 pairs	LVDS, Multi-Gigabit Ethernet
<u>HFM</u>	1-4 coax	LVDS, Ethernet

1G

2.5G

5G

10G

15G



10Mb

100Kb

www.molex.com/highspeednetworking

20G

50G

25G