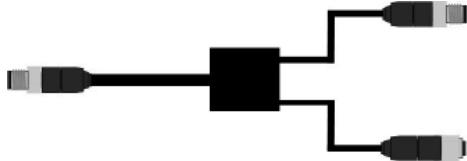


Lithionics IonBus® is a data communication network that is used with compact and external NeverDie® BMS systems. IonBus® combines two OptoLoop® channels, RV-C CANbus and Power into a single network which provides redundancy as required by safety standards such as UL1973, while also increasing the amount and quality of the cell level data available to better manage energy storage systems.

V9 EXTERNAL BMS SYSTEM CABLES

PART	DESCRIPTION
IonBus M12 8-Pin 14" T-Adapter #80-244	 A diagram showing a black M12 8-pin connector on the left, connected by a cable to a black T-adapter. The T-adapter has three ports: one port is connected to a second cable with a black M12 8-pin connector, and the other two ports are terminated with black caps. Connects to adjacent units in an up/down sequence to create a network between the BMS and one or more battery modules.
IonBus M12 8-Pin Terminator #80-245	 A diagram showing a black M12 8-pin connector with a wire loop attached to the side, used for terminating the network. Network termination resistor for RV-C CANbus & OptoLoop® circuits. Note: Wire loop can be cut to disable the CANbus termination resistor, while keeping Optoloop® termination in tact. *Most system configurations require 2 terminators to be installed. One must be installed in the beginning and one at the end of the IonBus Network.

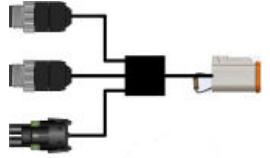
EXTENSION V9 EXTERNAL BMS SYSTEM CABLES

PART	DESCRIPTION
IonBUS M12 8-Pin, M-F Extension, 59" #75-526-59	 A diagram showing a black M12 8-pin male connector on the left connected by a cable to a black M12 8-pin female connector on the right. IonBus M12 extension cables can be used to extend T-adapter cables if longer cable lengths are required.
IonBus M12 8-Pin, M-F Extension, 118" #75-526-118	 A diagram showing a black M12 8-pin male connector on the left connected by a cable to a black M12 8-pin female connector on the right. IonBus M12 extension cables can be used to extend T-adapter cables if longer cable lengths are required.

EDGE HARNESS CABLES

PART	DESCRIPTION
IonBus M12 8-Pin to (F) female 2-Pin Weatherpack Connector, 36" #75-525-36	IonBus network edge harness which terminates the Optoloop® network, while extending the RV-C CANbus network to link with external CANbus devices. Includes CANbus termination resistor.
	
IonBus M12 8-Pin to (F) female 2-Pin Weatherpack Connector, 36" Resistor Removed #75-525-36-RR	IonBus network edge harness which terminates the Optoloop® network, while extending the RV-C CANbus network to link with external CANbus devices. Termination resistor is NOT included. Use if CANbus resistors are already installed elsewhere in your CANbus network.
	
IonBus M12 8-Pin to RJ45 Edge Harness, 60" #75-532-60	IonBus network edge harness terminates the Optoloop® network while extending the RV-C CANbus network to link directly with CANbus devices via RJ45 connector, such as Victron Cerbo GX.
	
IonBus M12 8-Pin to MiniFit JR Edge Harness, 36" #75-530-36	IonBus network edge harness terminates the Optoloop® network while extending the RV-C CANbus network to link directly with CANbus devices via the Female MiniFit JR connector, such as Lithionics ION3K.
	
IonBus M12 8-Pin Female to MiniFit JR Edge Harness Female, 80" # 75-535-80	IonBus network edge harness terminates the Optoloop® network while extending the RV-C CANbus network to link directly with CANbus devices via MiniFit JR connector, such as Lithionics ION3K. Female M12 connector to support 2x edge harness installation.
	

WEATHERPACK EXTENSION CABLES

PART	DESCRIPTION
IonBus Dual M12 Harness with IonGauge Connector and Weatherpack Edge Connector, 24ft #75-523-288	Used for IonGauge.
	

IonBUS Weatherpack (M) to MiniFit JR CANbus Harness, 36" #75-534-36	Extension for 75-525-36 or 75-237-12, to connect external device to the RV-C CANbus network via the Male MiniFit JR connector.
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NMEA2000 CABLES

PART	DESCRIPTION
IonBus Weatherpack (M) to CAT5 RJ45 CANbus Harness, 36" #75-531-36	Extension for 75-525-36 or 75-237-12, to connect external device to the RV-C CANbus network via RJ45 connector.
	
Ancor M12 5-pin CANbus Drop to Male Weatherpack, 36" #75-218W-36	CANbus Drop Cable to Male Weatherpack Connector, used to connect individual CANbus devices to NMEA2000 4-way Tee Connector, 36" length.
	
Ancor M12 5-pin CANbus Backbone Cable to Female Weatherpack, 36" #75-219W-36	CANbus Backbone cable to Female Weatherpack Connector, used to connect individual CANbus devices to NMEA2000 4-way Tee Connector, 36" length.
	
IonBus M12 8-pin to Ancor M12 5-pin, Adapter, 18" #75-524-18	Transition cable from IonBus M12 8-Pin to NMEA M12 5-Pin connector, 18" length.
	
Ancor NMEA2000 CANbus 4-Way Tee Connector, 36" #80-700-4	Used to connect multiple CANbus devices on the same network.
	
Ancor NMEA2000 CANbus Female Terminator #80-701	CANbus terminator that can be installed on an Ancor 4-way Tee Connector.
	

WIRING CONFIGURATIONS

Please refer to our [Lithionics Wiring Template](#)

DS-043

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