

Grouped Signal Connections

LV-Box <-> Accumulator

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TSAL+12-Green	TSAL+12V	LV-Box	Accumulator	TSAL	0.5
TSAL-GND-Green	TSAL-GND	LV-Box	Accumulator	TSAL	0.5
+24-Accu	+24-Accu	LV-Box	Accumulator	24V	0.5
AMS-OK	AMS-OK	LV-Box	Accumulator	24V	0.5
IMD-OK	IMD-OK	LV-Box	Accumulator	24V	0.5

LV-Box <-> DC-Link

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TSAL+12-Red	TSAL+12V	LV-Box	DC-Link	TSAL	0.5
TSAL-GND-Red	TSAL-GND	LV-Box	DC-Link	TSAL	0.5
+24-BSPD	+24-CTRL	LV-Box	DC-Link	24V	0.5
+24-DC-Link	+24-CTRL	LV-Box	DC-Link	24V	0.5
GND-BSPD	GND-CTRL	LV-Box	DC-Link	24V	0.5

LV-Box <-> APPS

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24-APPS	+24-CTRL	LV-Box	APPS	24V	0.5

LV-Box <-> ASSI-Left

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+12	+12	LV-Box	ASSI-Left	12V	0.5
Yellow	Yellow	LV-Box	ASSI-Left	12V	0.5
Blue	Blue	LV-Box	ASSI-Left	12V	0.5

LV-Box <-> ASSI-Rear

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+12	+12	LV-Box	ASSI-Rear	12V	0.5

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
Yellow	Yellow	LV-Box	ASSI-Rear	12V	0.5
Blue	Blue	LV-Box	ASSI-Rear	12V	0.5

LV-Box <-> ASSI-Right

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+12	+12	LV-Box	ASSI-Right	12V	0.5
Yellow	Yellow	LV-Box	ASSI-Right	12V	0.5
Blue	Blue	LV-Box	ASSI-Right	12V	0.5

LV-Box <-> Brake-Light

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+12	+12	LV-Box	Brake-Light	24V	0.5
Brake-Light	Brake-Light	LV-Box	Brake-Light	24V	0.5

LV-Box <-> Buzzer

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24	+24	LV-Box	Buzzer	24V	0.5
Sound1	S1	LV-Box	Buzzer	24V	0.5
Sound2	S2	LV-Box	Buzzer	24V	0.5

LV-Box <-> Dashboard

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TSAL+12-Dash	TSAL+12V	LV-Box	Dashboard	TSAL	0.5
AMS-Status	AMS-Status	LV-Box	Dashboard	5V	TBD
IMD-Status	IMD-Status	LV-Box	Dashboard	5V	TBD
R2D	R2D	LV-Box	Dashboard	5V	TBD

LV-Box <-> Datalogger

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+12-DataLogger	+12-DL	LV-Box	Datalogger	12V	0.5
GND-DataLogger	GND-DL	LV-Box	Datalogger	12V	0.5

LV-Box <-> Fan Left

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24-FanL	+24-FanL	LV-Box	Fan Left	24V	0.5
GND-FanL	GND-FanL	LV-Box	Fan Left	24V	0.5

LV-Box <-> Fan Right

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24-FanR	+24-FanR	LV-Box	Fan Right	24V	0.5
GND-FanR	GND-FanR	LV-Box	Fan Right	24V	0.5

LV-Box <-> Inverter

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24-INV	+24-CTRL	LV-Box	Inverter	24V	0.5
RFE	+24-CTRL	LV-Box	Inverter	24V	0.5
GND-INV	GND-CTRL	LV-Box	Inverter	24V	0.5
GNDE-INV	GND-CTRL	LV-Box	Inverter	24V	0.5

LV-Box <-> Pump

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+24-Pump	+24-Pump	LV-Box	Pump	24V	0.5
GND-Pump	GND-Pump	LV-Box	Pump	24V	0.5

LV-Box <-> Side-Panel

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
+5	+5V	LV-Box	Side-Panel	5V	TBD
Reset	Reset	LV-Box	Side-Panel	5V	TBD

LV-Box <-> TSAL-LED

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TSAL+12-LED	TSAL+12V	LV-Box	TSAL-LED	TSAL	0.5
TSAL-GND-LED	TSAL-GND	LV-Box	TSAL-LED	TSAL	0.5

LV-Box <-> TSMS

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
HVIL	HVIL	LV-Box	TSMS	24V	0.5
TSMS	TSMS	LV-Box	TSMS	24V	0.5

Accumulator <-> DC-Link

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
Discharge-Disable	Discharge-Disable	DC-Link	Accumulator	24V	0.5

Accumulator <-> Chassis

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
GND-Accu	GND-Accu	Chassis	Accumulator	24V	1.5

Accumulator <-> Dashboard

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TS-Activation	TS-Activation	Accumulator	Dashboard	5V	TBD
TS-OFF	TS-OFF	Accumulator	Dashboard	5V	TBD

Accumulator <-> Inverter

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
FRG/Run	FRG	Inverter	Accumulator	24V	0.5

Accumulator <-> TSAL-LED

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TS-OFF	TS-OFF	TSAL-LED	Accumulator	5V	TBD

Accumulator <-> TSMS

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
HVIL	HVIL	TSMS	Accumulator	24V	0.5

DC-Link <-> TSAL-LED

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
TSAL-Red-Enable	TS-Active	TSAL-LED	DC-Link	5V	TBD

Chassis <-> APPS

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
GND-APPS	GND-APPS	Chassis	APPS	24V	0.5

Chassis <-> Dashboard

Signal Name	Harness Label	Start Point	End Point	Voltage Domain	Wire Gauge
GND-Dash	GND-Dash	Chassis	Dashboard	TSAL	0.5