

SKYLINK

Remote Monitoring



Global Voice

Data Connection

FILE UPLOAD 75%

Installation Guide

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SkyLink

Installation Guide

Version 2.5

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NOTICE

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REVISION HISTORY

Date	Ver.	By	Description
13 April 2021	0.0	MZ	Initial Draft
30 April 2021	1.0	MZ	Final Version Release
17 May 2021	1.1	MZ	Updated terminal/antenna mounting sections
24 June 2021	1.2	MZ	Changed mounting renderings; added note about SIM cards
14 July 2021	1.3	MZ	Added aviation antenna information/diagram
28 July 2021	1.4	MZ	Included FXO/FXS adapter information
25 Aug 2021	1.5	MZ	Added SCAN antenna information; edited antenna location suggestions table
1 Sept 2021	1.6	MZ	Included mention of SkyLink 7100 Install Guide; removed antenna location suggestions table; made corrections based on feedback
9 Sept 2021	1.7	MZ	Added info for antenna location suggestions
14 Sept 2021	1.8	MZ	Updated MARUWA antenna non-direct connection numbers
28 Sept 2021	1.9	MZ	Added note to Step 4: Attach Adapters
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16 Dec 2021	2.1	MZ	Added cable diagrams
21 Jan 2022	2.2	MZ	Updated antenna cable loss data
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29 March 2022	2.4	MZ	Added Battery Pack installation information; updated device installation suggestions (building only); placed Equipment Setup section before Mounting & Installation section
27 April 2022	2.5	MZ	Included charge configurations for the Battery Pack

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INTRODUCTION

This Installation Guide demonstrates the process of mounting SkyLink to multiple fixed and non-fixed assets, including a vehicle, ship, and building, among other rigid objects. It also includes information on charging, installing, and using the SkyLink Battery Pack.

About SkyLink

SkyLink by Blue Sky Network is the inaugural Iridium Certus 100 mid-band solution for land mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations for mission-focused safety, efficiency, versatility, and affordability.

The device can also be utilized with a variety of adapters and accessories to provide the preferred configuration for each user. It is both IP65 Certified and FCC Part 15 & 25 Certified.

Installation Components

Installation components are based on the desired configuration for each unit; the list below describes some of the most common components available in a kit or purchased. All adapter assemblies come with a length of cable that is acceptable for typical installations.

- Dual-Mode Data Gateway
- One of the following Iridium-approved Antennas:
 - MARUWA – MHL-1621C
 - High-Profile Maxtena – M1621HCT-HP
 - Sensor Systems – S67-1575-414
 - SCAN – 65020-000
- SkyLink Mounting Bracket
 - Self-assembly kit
 - Pole Mount (optional)
- One of the following Power Adapters:
 - 12V Cigarette Lighter Adapter
 - SkyLink DC Pigtail Harness
 - POE Injector (self-assembly kit)
 - AC/DC Power Supply (self-assembly kit)
- 1' Pigtail Ethernet Adapter
- 6' Ethernet Cable (longer length options available)

If a longer length is needed, you can purchase an extender offered in multiple lengths. Please contact us for more information about available accessories and installation kits.

Top Panel Description



The top panel contains a power LED indicator and 2 connectors for an Iridium and cellular antenna. The descriptions below reference the photo above in accordance with the numerical value.

1. Iridium Antenna Connector

- Furthest connector from power LED indicator
- "IRI" etched into connector recess

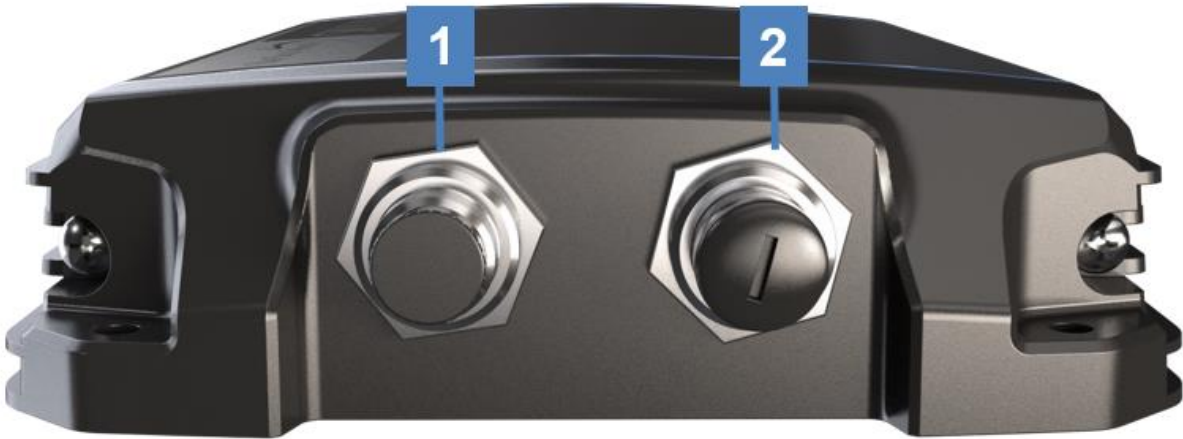
2. Power LED Light

- Green = Initial Power On
- Red = Unit in Bootloader Mode
- Blue Blink = OS is Booting
- Blue Steady = Device is Ready
- Red Blink = Iridium Firmware Upgrade
- Blue Blink = SkyLink Firmware Upgrade

3. Cellular Antenna Connector

- Closest connector to power LED indicator

Bottom Panel Description



The bottom panel contains a power port and a connectivity port that connects to multiple adapters. The descriptions below reference the photo above in accordance with the numerical value.

1. Power Port

- Connects to the following adapters: 12V Cigarette Lighter, SkyLink DC Pigtail Harness, POE Injector, or AC/DC Power Adapter
- Remove connector cap before attaching cable

2. Connectivity Port

- Connects to USB and RS232 adapters
- Remove connector cap before attaching adapter

NOTE: See [Appendix B – SkyLink Cable Diagrams](#) for info regarding cable construction requirements.

SkyLink DC Pigtail Harness

This is the cable you receive if you request the currently labeled 'SL100-IS, SkyLink 10' Power Interface Cable with QuickPosition (QPos).' Below are the specs.

OPERATING PARAMETERS

Electrical

- External power:
 - 10-34 VDC (12V nominal power)
 - POE
- Power consumption

Function	Color
+Vin	Brown
GND	Green
SOS	White

Back Panel Description

The back panel of the unit contains a label with the following information:

- Model series number
- Part number
- Product serial number
- Iridium IMEI
- WiFi SSID and password
- Required certification notifications
- Power and mechanical specifications
- Scannable QR code to access device WiFi

EQUIPMENT SETUP

Step 1 - Install Cellular & Iridium SIM Cards

NOTE: If you purchased your SkyLink device through Blue Sky Network, the unit will come with cellular and Iridium SIM cards already installed.

To install your cellular and Iridium SIM cards:

1. Carefully remove the entire bottom panel of the unit by unscrewing the Phillips screw on each side of the panel.



2. Insert SIM cards located behind the connectivity port, taking care to ensure wires remain tucked in.



3. Flip the device over to the back panel (where the white label is located) and insert the Iridium SIM card into the slot.



NOTE: A micro SD slot is also present behind the connectivity port. Ensure that the SIM cards are placed into the correct holders and not the micro SD slot. If the device does not work after installing the SIM cards, they may be in the wrong slots.

4. Re-attach bottom panel by re-screwing Phillips screws.

Step 2 - Attach Cellular & Iridium Antennas

CELLULAR ANTENNA

The SkyLink device uses an LTE extender antenna that connects directly to the cellular antenna connector located on the top panel of the unit.



IRIDIUM ANTENNAS

The SkyLink device uses Iridium antennas with both direct and non-direct connection to the unit. The Iridium antenna connector is on the top panel (“IRI” will be etched into the connector’s recess).

NOTE: All antennas should be positioned in a location where they have an unobstructed, full view of the sky. Please see [Location Requirements](#) for a full list of considerations.

There are multiple Iridium antennas that can be used with your SkyLink device:

Direct Connection – MARUWA



Connect the MARUWA antenna directly to the Iridium connector located on the top panel of the unit.

Non-Direct Connection – High-Profile Maxtena, SCAN, Sensor Systems, & MARUWA

High-Profile Maxtena

- Minimum cable loss: 0.4 dB
- Maximum cable loss: 2.0 dB
- LMR240 cable length: 2' to 12'



SCAN

- Minimum cable loss: 0.4 dB
- Maximum cable loss: 2.0 dB
- LMR240 cable length: 2' to 18'



MARUWA

- Minimum cable loss: 0.4 dB
- Maximum cable loss: 1.0 dB
- LMR240 cable length: 0' to 5'



Sensor Systems

- Minimum cable loss: 0.2 dB
- Maximum cable loss: 0.6 dB
- LMR240 cable length: 2' to 10'



Connect the BSN-provided cable to the respective antenna, then attach the other end to the Iridium antenna connector.

ANTENNA REQUIREMENTS

Listed below are the Iridium antenna requirements for the SkyLink device. Please contact us if you have any questions or need an antenna.

MARUWA Antenna (MHL-1621C)

- Passive antenna
- Frequency: 1621.0 MHz
- Impedance: 50 ohms
- Polarization: RHCP
- Operating temperature: -40°C to +85°C
- SMA male connector
- Maximum acceptable cable loss: 1.0 dB

High-Profile Maxtena (M1621HCT-HP)

- Passive antenna
- Frequency: 1616-1626 MHz
- Impedance: 50 ohms
- Polarization: RHCP
- Operating temperature: -40°C to 85°C
- TNC female connector
- Maximum acceptable cable loss: 2.0 dB

Sensor Systems Antenna (S67-1575-414)

- Passive antenna
- Frequency: 1616-1626.5 MHz
- Impedance: 50 ohms
- Polarization: RHCP
- Operating temperature: -55°C to +70°C
- TNC female connector
- Maximum acceptable cable loss: 0.6 dB

SCAN Antenna (65020-000)

- Passive antenna
- Frequency: 1616-1626.5 MHz
- Impedance: 50 ohms
- Polarization: RHCP
- Operating temperature: -40°C to 70°C
- N-female connector
- Maximum acceptable cable loss: 2.0 dB

Step 3 - Attach Power

Depending on your purchase, your kit will include one of the following power adapters:

- 12V Cigarette Lighter
- SkyLink DC Pigtail Harness
- POE Injector
- AC/DC Power Adapter

NOTE: Some adapters, such as the POE Injector, may require connection to an additional cable that will be included in your kit. Please see the question, *"My kit came with a POE power source. What is it and how do I use it?"* in the FAQ section of the SkyLink User Guide if you need further assistance.



To power on the device, remove the connector cap from the power port located on the bottom panel of the unit. Connect the power cable into the port and the adapter into the appropriate power source (e.g., a wall or vehicle outlet).

Confirm Unit Status

To confirm the status of the unit, use the power LED indicator located on the top panel of the device. It will show green, followed by red, then flashing blue as it boots. A steady blue LED indicates that the unit is ready to use.

Power Off Unit

When you want to turn the unit off, simply unplug the power adapter from the power port located on the bottom panel. The power LED indicator will show green and slowly fade. Once the indicator is completely dark (approximately 60 seconds), the unit has turned off.

Step 4 - Attach Adapters

Listed below are the most common adapters that can be connected to your SkyLink device for additional functionality. These will either be included in your kit, depending upon your selection, or can be purchased.

- USB Adapter
NOTE: An FXS or FXO adapter needs to be plugged into the USB adapter in order to use a POTS phone or phone system. Use an FXS adapter to connect a POTS phone to SkyLink and an FXO adapter to connect a phone system.
- RS232 Adapter
NOTE: RS232 cables for SkyLink are proprietary and available only from Blue Sky Network. The SkyLink RS232 cable kit comes with a DB9F connector and conforms to the RS232 standard pinout for a DB9. Please contact sales@blueskynetwork.com or your reseller to purchase.



To attach the adapter, remove the connector cap from the connectivity port located on the bottom panel of the unit. Connect the cable into the port and the adapter into the appropriate device (e.g., modem, POTS adapter, etc.).

Step 5 - Complete Setup

Congratulations on successfully installing your SkyLink device! If you purchased a SkyLink Battery Pack, please see the [Installation & Use](#) section below.

To complete unit setup, including configuring your settings, please see the SkyLink User Guide.

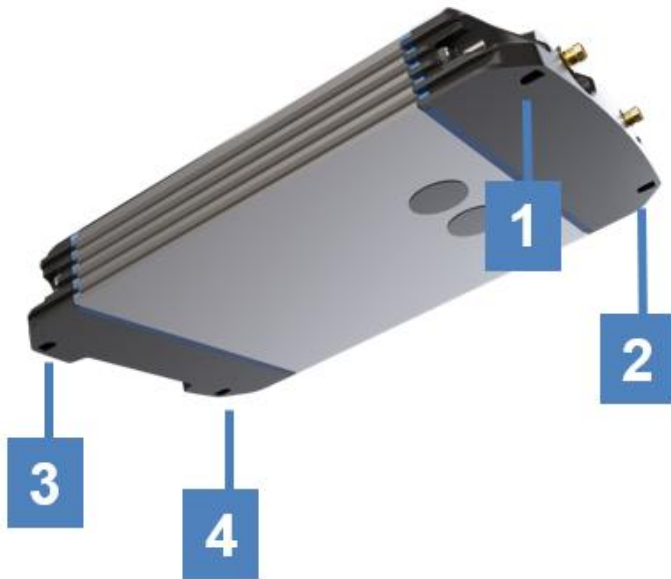
SKYLINK MOUNTING & INSTALLATION

Mounting

The SkyLink device should be securely fastened to a rigid object to ensure optimal functionality. There are three recommended methods for securing the terminal:

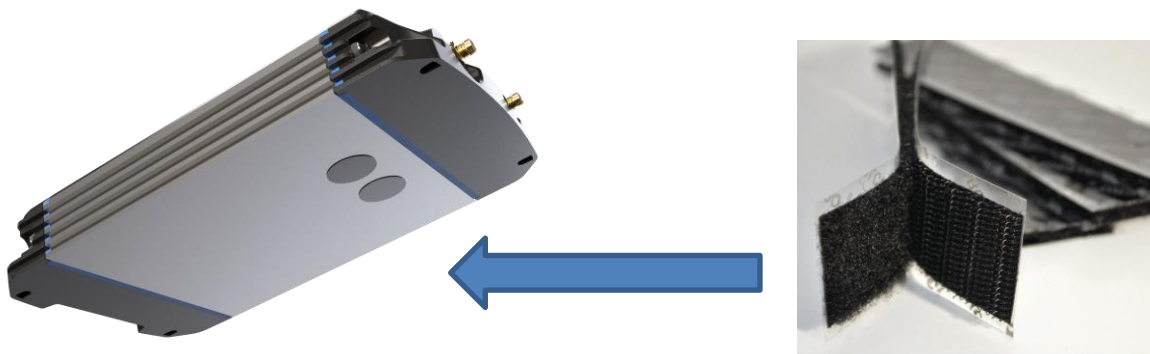
MOUNTING THE UNIT

All four corners of the device contain holes that can be used to affix the unit via straps, ties, or bolts.



MOUNTING WITH ADHESIVE

An adhesive (e.g., Velcro) can be placed on the back panel of the unit and attached to a rigid object.



MOUNTING WITH SKYLINK MOUNTING BRACKET

A universal mounting bracket with vibration dampening is included with your purchase of SkyLink, allowing for the unit to be securely anchored to a fixed structure such as a wall. An optional pole mount can also be purchased with the kit.



SkyLink Mounting Bracket

- For installation on wall, panel, boat, or truck.
- Use wall anchors (4) in 2" x 2" pattern.



Optional Pole Mount

- For vertical pole mount installation (shown). Use V-bolts (4) horizontally in 2" x 2" pattern.
- For horizontal pole mount installation (not shown). Use V-bolts (4) vertically in 2" x 2" pattern.

Other Installation Equipment

In addition to the equipment described above, the following may be useful to have during installation:



- Screwdriver & Socket Set

Location Requirements

The following must be observed when installing the SkyLink terminal and antennas:

ANTENNAS

NOTE: Certus-certified antennas for SkyLink are required. See the [Antenna Requirements](#) section for a list of approved antennas.

The Iridium Certus Maxtena HP, SCAN, and MARUWA antennas are designed to be ground-plane independent and are certified for use 1m above the ground plane and should be mounted as such. Other antennas such as Sensor Systems is designed to be ground-plane mounted, but its certification is pending the antenna test data approval.

NOTE: To avoid exposure to antenna radiation, personnel should maintain a safe distance of 30 cm. (11.8 in.) minimum from the antenna while the unit is operating.

- The antenna should be mounted in an area that prevents close exposure to its radiation.
- The antennas should be mounted with an unobstructed, clear view of the sky to avoid connection and/or data speed issues.
- When possible, distance antennas from large metallic objects in the field of view.
- Place antennas as far away from other antennas (e.g., radar, magnetic compasses, HF antennas) as possible to avoid interference.

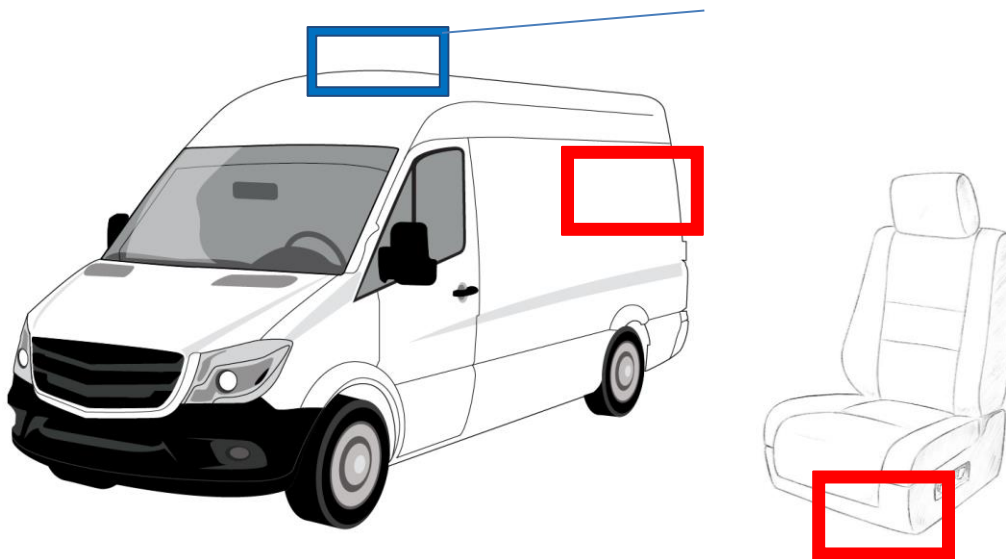
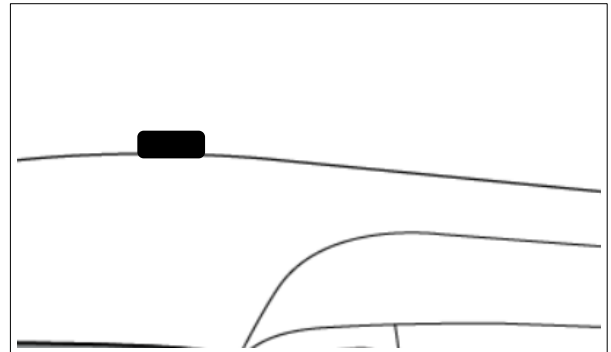
SKYLINK TERMINAL

- The terminal should be securely fastened to the rigid object to ensure proper antenna and device functioning.
- The terminal should not be placed in a location where it may become a hazard to the asset during operation (e.g., placing the unit in a location that prevents free operation of gear selector, steering wheel, or airbags in a vehicle) or in the event of a crash.
- Care should be taken to route cabling and wires through locations where they will not be damaged by operator use of the asset (e.g., routing cables through driver footwell in a vehicle).

Location Suggestions

For the following diagrams, location suggestions for SkyLink are in **RED** and for the antenna in **BLUE**. Each section also includes a brief description of the location suggestions.

VEHICLE



SkyLink

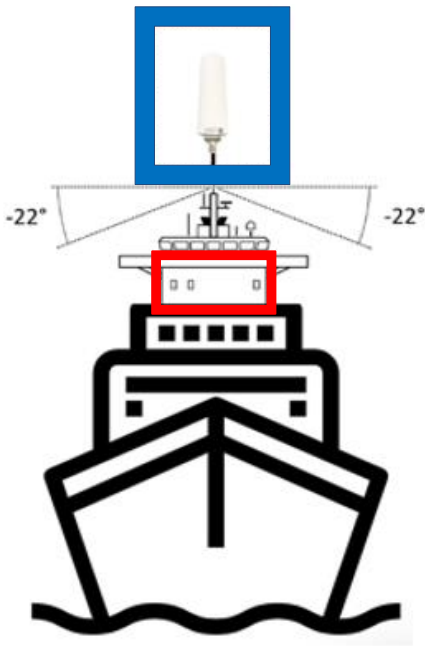
- Under driver or passenger seat
- In trunk of vehicle

Antenna

- On roof of vehicle

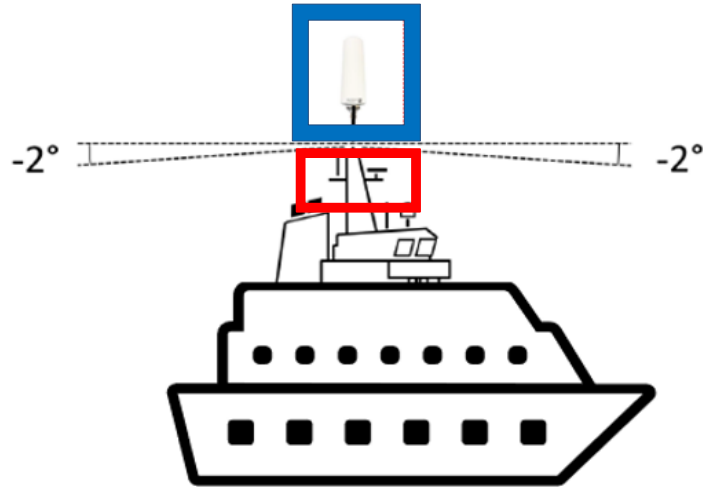
NOTE: No ground plane is required for Maxtena antennas per antenna manufacturer.

SHIP



SkyLink

- In bridge of ship
- On pole mount attached to mast



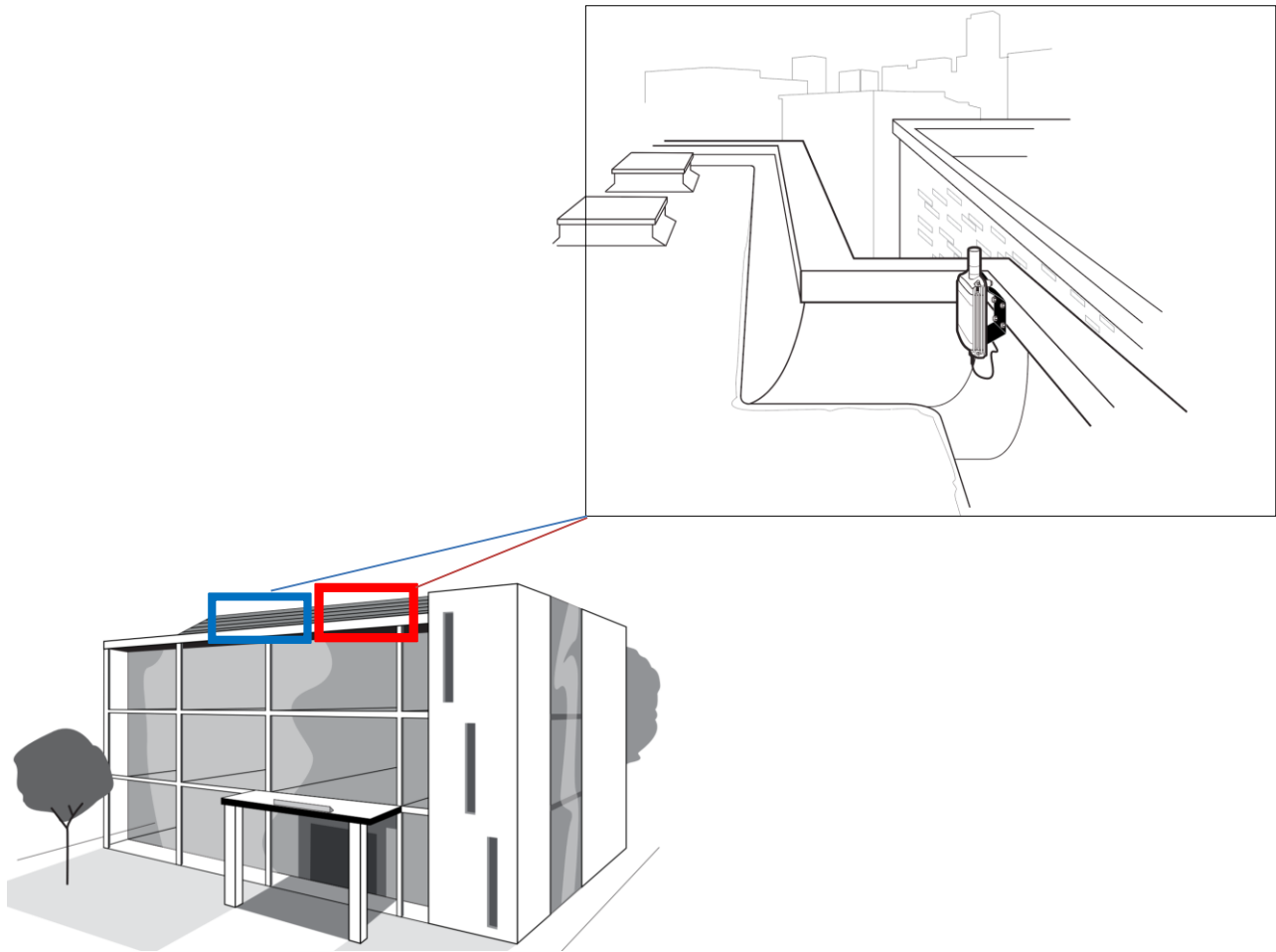
Antenna

- On mast

NOTE: The following must be observed when mounting the antenna on a ship:

- Antennas should be placed as far away from other antennas (e.g., radar, magnetic compasses) as possible.
- If mounting to a metal mast, the antenna should be placed above it; otherwise, it should be mounted to a wood or RF transparent fiberglass mast.
- A clear view of +/-22° below the horizontal plan is needed to provide full functionality under extreme roll conditions.
- A clear view of +/-2° below the horizontal plan is needed to provide full functionality under extreme pitch conditions.

BUILDING



SkyLink

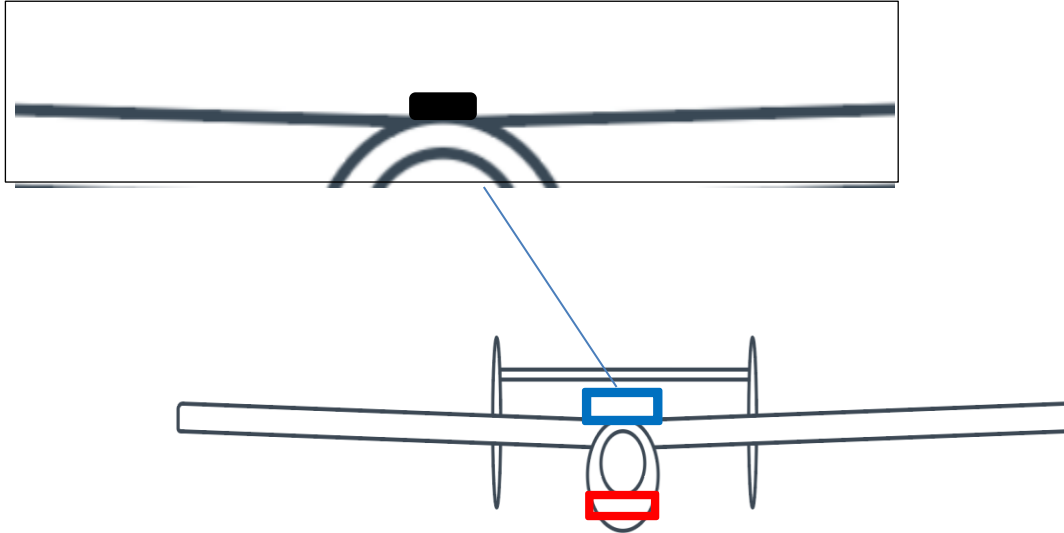
- On roof
- NOTE:** The terminal should not be placed in a room when using the MARUWA antenna while it is directly connected to the terminal.
- In building (only when using a non-direct connection antenna)
- NOTE:** Ensure that you have sufficient length of ethernet cat6 cable to connect to the terminal.

Antenna

- On roof
- NOTE:** Ensure that the antenna is placed in an unobstructed, full view of the sky to mitigate connectivity and/or data speed issues.

AIRCRAFT/UAV

NOTE: For more detailed information, please see the SkyLink 7100 Installation Guide.



- **SkyLink**
Installed internally
- **Antenna**
On fuselage

BATTERY PACK INSTALLATION & USE

The SkyLink Battery Pack is mounted to your Data Gateway for ultimate mobility. Its tiered battery options, SOS capability, and integrated ignition sensing enables long-lasting power and connectivity in remote or mobile environments, even during power outages.

Top Panel Description

The Battery Pack contains 3 LED indicators, a button to power the device, and a button to enable SOS alerts. The descriptions below reference the photo above according to numerical value.



1. Power Button & LED

Press this button to turn the Data Gateway on or off. Below are the LED colors and descriptors.

- Green = Power On
- Yellow Blink (~15 seconds) = Entering Sleep Mode, then Power Off
- Double Yellow Blink = Low Battery
- Rapid Red Blink = Overcurrent is Sensed
- No Illumination = Power Off

2. Battery Status Indicator LED

- Green = Charge Complete
- Red = Fast Charge in Progress
- Yellow Blink = Temperature Out of Range
- Red Blink = Battery Fault Detected
- No Illumination = Power Off

NOTE: The Extended Battery pack has 2 battery cell packs and only 1 status LED, so status colors may alternate if the 2 cell packs are in different states (e.g., if 1 is charging and the other is done charging, the status LED will alternate between red and green).

3. Emergency (SOS) Button & LED

Use this button to activate SOS mode. The LED will flash amber, and if the Data Gateway is off, the power will turn on. Press and hold the button for 1 second to turn SOS mode off; the Data Gateway will remain on. Pressing the Power button in SOS mode will have no effect until SOS is turned off. Please see the [Emergency / SOS Function](#) section for more information.

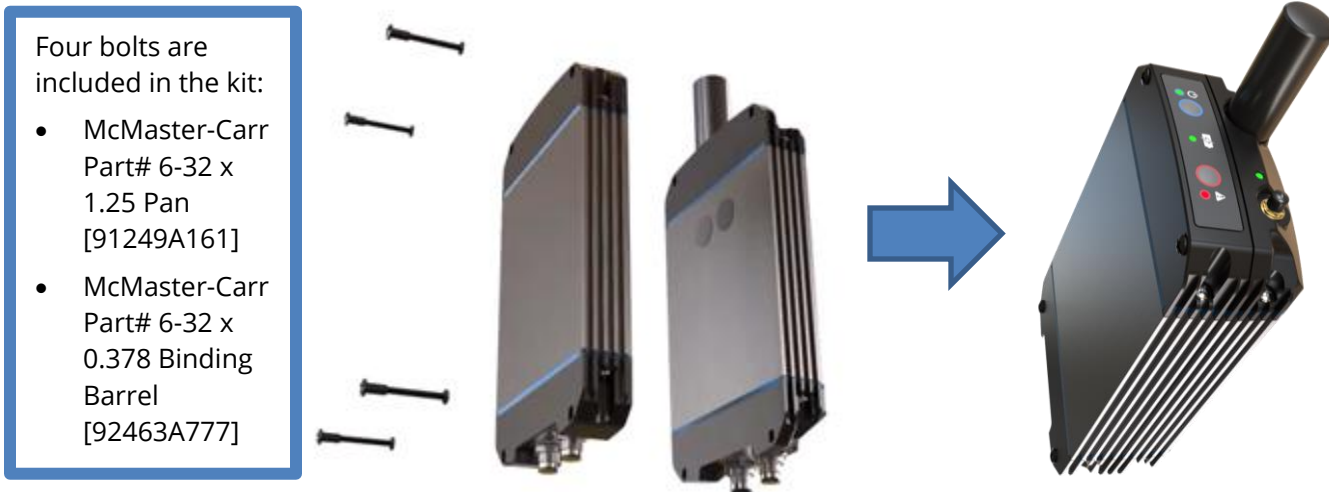
Bottom Panel Description

Each Battery Pack is equipped with 2 male M-12 connectors and a provided female cable. A longer cable can be requested to connect remotely located Battery Packs. The maximum cable run is 50 ft.



Mounting Options

Attach the Battery Pack to the Data Gateway by placing bolts through the chassis holes of the Pack and the Data Gateway (shown below). See [Appendix C - Battery Pack Cable Diagrams](#) for specs.



Alternatively, it can be screw or bolt mounted through the chassis holes. You can also order a remote SOS switch and cable that can be mounted away from the Battery Pack.

Charging the Battery

Connect the Battery Pack to a 10-35 VDC source (e.g., a cigarette lighter plug from 12VDC in a vehicle or 28V aviation power) to charge. Below are the 3 main configurations to charge the Pack:

- 1) Hardwire with optional remote-mounted SOS button
- 2) AC/DC power input cable
- 3) 12V power cable

An AC/DC power input cable and interconnect cable are included in your kit.

The Standard Battery Pack has a run-time of up to 24 hours, and the Extended Battery Pack up to 48 hours. The Data Gateway can be operated during charging, which will take between 4-6 hours for a fully depleted Battery Pack. Please see [Appendix C – Battery Pack Cable Diagrams](#) for cable options.

Emergency / SOS Function

When SOS mode is activated, an SOS event with GPS location is sent to SkyRouter. Follow-up emergency events are sent at configurable intervals. See the SkyRouter User Guide for more info.

An external SOS button that can be wired and used from a remote location is also available. Simply press the button and an SOS event will be sent to SkyRouter.

External SOS Switch:



Pin info:

Red: Vin+

Black: Vin-

White: SOS

All SOS buttons and remote switches operate together (i.e., pressing either the button or remote switch will trigger an emergency event that gets sent to SkyRouter).

APPENDIX A - TROUBLESHOOTING

If you are unable to activate your SkyLink device, please contact Blue Sky Network Technical Support and we will be happy to help!

- 1) Check to ensure the antennas on your device are functioning and attached to the appropriate connectors located on the top panel. The Iridium antenna should be attached to the connector that is furthest from the power LED indicator. It has "IRI" etched into the connector recess.
- 2) Ensure the SkyLink LED illuminates. If the power LED indicator is stuck on red, this is an indication of a hardware issue. Remove the power cable from the power port and wait approximately 60 seconds, until the power LED indicator fades from green to dark. Once unit has completely shut down, reapply power. If device continues to display red, please contact us for technical support.

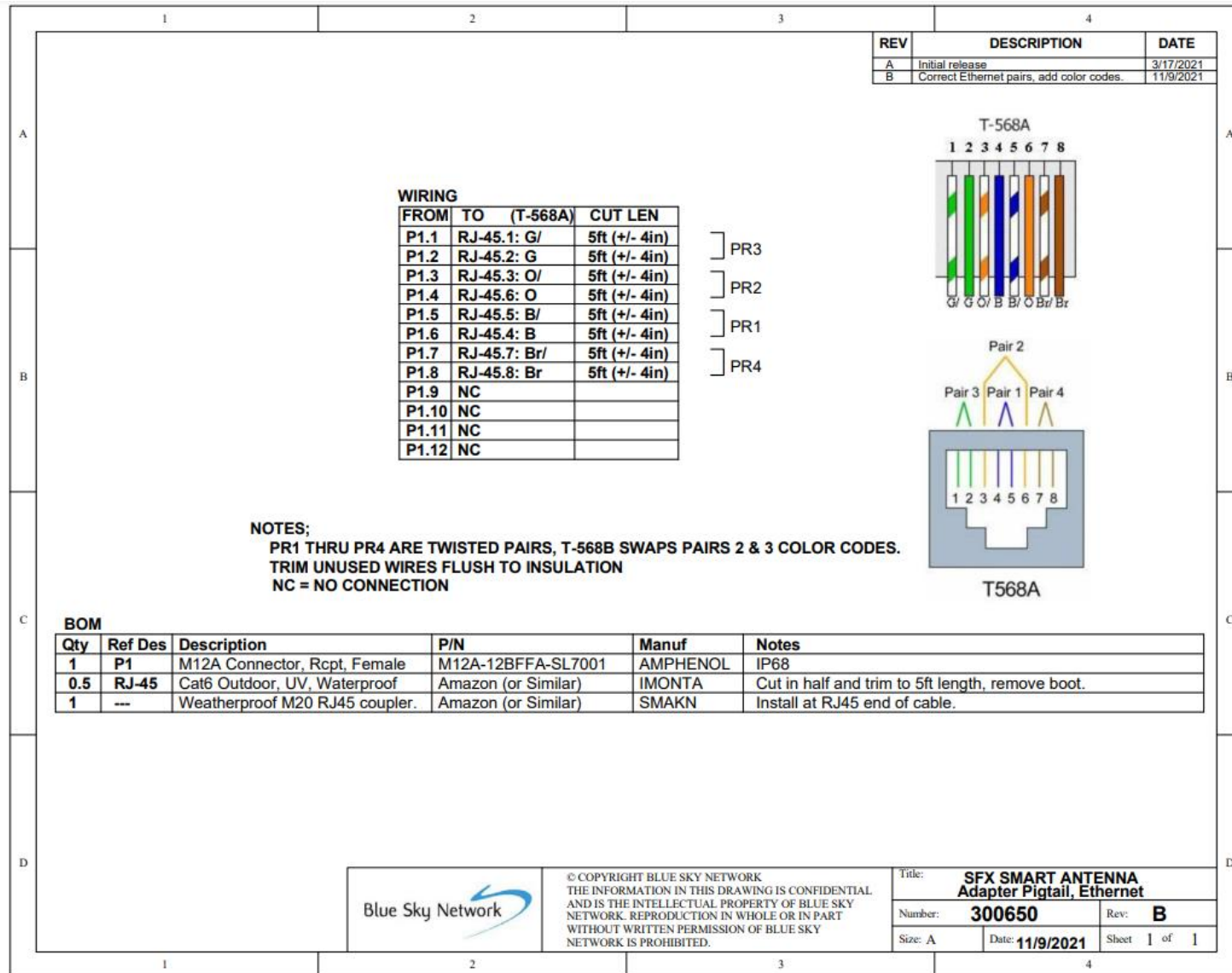
The power LED indicator located on the top panel will cycle through multiple colors as it loads. Please see the [Top Panel Description](#) section to read about each color in the cycle and their meaning.

APPENDIX B – SKYLINK CABLE DIAGRAMS


Cable diagrams can be created for specific installations upon request. Please do not hesitate to contact us if you have a need for more extensive diagrams.

Blue Sky Network can make cables too! If you would like, we can produce cables based on your installation needs. Please contact us for more detail.

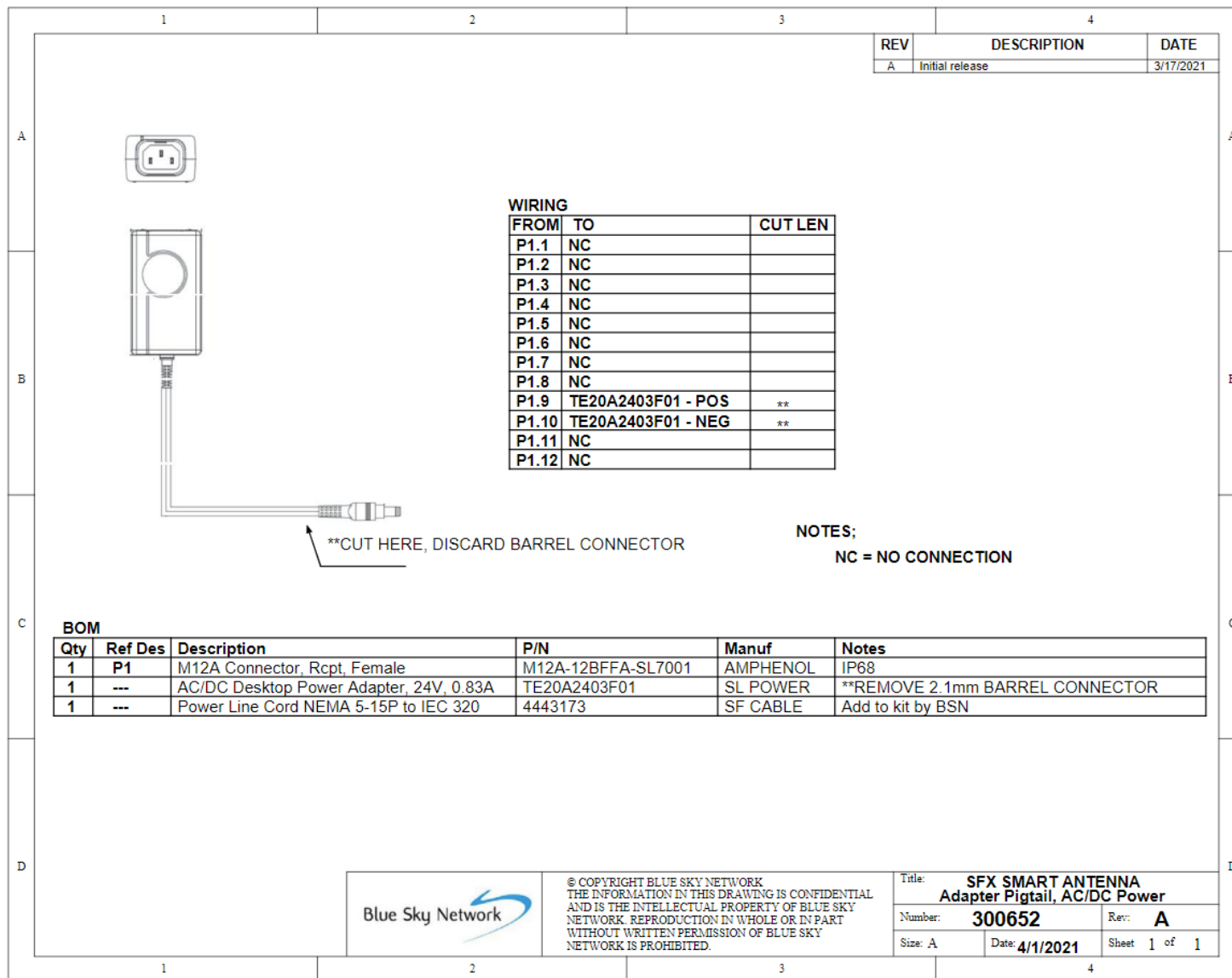
PIGTAIL ADAPTER, ETHERNET





PIGTAIL ADAPTER, VEHICLE POWER

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1	2	3	4																																					

PIGTAIL ADAPTER, ACDC POWER



PIGTAIL ADAPTER, 12V POWER PLUG

1	2	3	4																																							
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		<p>Title: SFX SMART ANTENNA Adapter Pigtail, 12V Power Plug</p> <p>Number: 300653 Rev: A</p> <p>Size: A Date: 4/1/2021 Sheet 1 of 1</p>																																								
1	2	3	4																																							


PIGTAIL ADAPTER, RS-232

REV	DESCRIPTION	DATE
A	Initial release	3/18/2021

WIRING		
FROM	TO	CUT LEN
P1.1	NC	1ft
P1.2	NC	1ft
P1.3	NC	1ft
P1.4	NC	1ft
P1.5	NC	1ft
P1.6	J1.3	1ft
P1.7	J1.2	1ft
P1.8	J1.5	1ft
P1.9	J1.7	1ft
P1.10	J1.6	1ft
P1.11	NC	1ft
P1.12	NC	1ft


NOTES:
TRIM UNUSED WIRES FLUSH TO INSULATION
NC = NO CONNECTION

BOM					
Qty	Ref Des	Description	P/N	Manuf	Notes
1	P1	CONN PLUG MALE 12P GOLD SLDR CUP	M12A-12BMMA-SL7001	AMPHENOL	IP68
0.5	J1	CABLE ASSY DB09 SHLD BLACK 1.83M	P450-006	Tripp Lite	Cut to 1ft (+/- 0.5") total length.

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PIGTAIL ADAPTER, USB

1	2	3	4																																							
A	<table border="1" style="border-collapse: collapse;"> <tr> <th style="width: 10%;">REV</th> <th style="width: 70%;">DESCRIPTION</th> <th style="width: 20%;">DATE</th> </tr> <tr> <td style="text-align: center;">A</td> <td>Initial release</td> <td style="text-align: center;">3/18/2021</td> </tr> </table>		REV	DESCRIPTION	DATE	A	Initial release	3/18/2021	A																																	
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Title: **SFX SMART ANTENNA
Adapter Pigtail, USB**

Number: **300655** Rev: **A**

Size: A Date: **4/1/2021** Sheet **1** of **1**

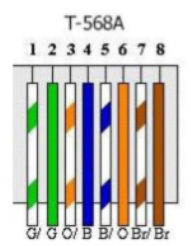
PIGTAIL ADAPTER, ETHERNET + VEH PWR

REV	DESCRIPTION	DATE
A	Initial release	6/2/2021
B	Correct Ethernet pairs, add color codes.	11/9/2021

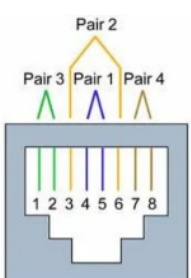
WIRING

FROM	TO (T-568A)	CUT LEN
P1.1	RJ-45.1: G/	5ft (+/- 4in)
P1.2	RJ-45.2: G	5ft (+/- 4in)
P1.3	RJ-45.3: O/	5ft (+/- 4in)
P1.4	RJ-45.6: O	5ft (+/- 4in)
P1.5	RJ-45.5: B/	5ft (+/- 4in)
P1.6	RJ-45.4: B	5ft (+/- 4in)
P1.7	RJ-45.7: Br/	5ft (+/- 4in)
P1.8	RJ-45.8: Br	5ft (+/- 4in)
P1.9	3-WIRE: BROWN	10ft
P1.10	3-WIRE: GREEN	10ft
P1.11	3-WIRE: WHITE	10ft
P1.12	NC	

PR3
 PR2
 PR1
 PR4
 VDC IN +
 VDC IN - (GND)
 IGN SENSE



T-568A




T568A

NOTES:
 PR1 THRU PR4 ARE TWISTED PAIRS, T-568B SWAPS PAIRS 2 & 3 COLOR CODES.
 TRIM UNUSED WIRES FLUSH TO INSULATION
 3-WIRE: TIN AND STRIP UNTERMINATED ENDS 1/2 INCH
 NC = NO CONNECTION

BOM

Qty	Ref Des	Description	P/N	Manuf	Notes
1	P1	M12A Connector, Rcpt, Female	M12A-12BFFA-SL7001	AMPHENOL	IP68
0.5	RJ-45	Cat6 Outdoor, UV, Waterproof	Amazon (or Similar)	IMONTA	Cut in half and trim to 5ft length, remove boot.
1	---	Weatherproof M20 RJ45 coupler.	Amazon (or Similar)	SMAKN	Install at RJ45 end of cable.
10ft	3-WIRE	24AWG 3C UNSHIELDED 10'	5106N11	McMASTER	10ft of weatherproof 24AWG, 3 Wire, Unterm.



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Title: **SFX SMART ANTENNA
 Adapter Pigtail, Ethernet + Veh Power**

Number: **300656** Rev: **B**

Size: A Date: **11/9/2021** Sheet 1 of 1

SINGLE POTS ADAPTER


REV	DESCRIPTION	DATE
A	Initial release	8/15/2021

WIRING		
FROM	TO	CUT LEN
P1.1	J1.1	3 inch Red
P1.2	J1.2	3 inch White
P1.3	J1.3	3 inch Green
P1.4	NC	
P1.5	J1.4	3 inch Black
P1.6	NC	
P1.7	NC	
P1.8	NC	
P1.9	NC	
P1.10	NC	
P1.11	NC	
P1.12	NC	

NOTES:
 J1 SHIELD WIRE NOT USED
 HEAT SHRINK FROM AMPHENOL CONN TO POTS ADAPTER
 TRIM UNUSED WIRES FLUSH TO INSULATION
 NC = NO CONNECTION

BOM

Qt	Ref Des	Description	P/N	Manuf	Notes
1	P1	CONN PLUG MALE 12P GOLD SLDR	M12A-12BMMA-	AMPHENOL	IP68
1	---	300MM USB FEMALE TO PICOLOCK	2061070002	MOLEX	Remove PicoLock Connector, cut shield wire
1	J1	PLUGABLE USB 2.0 2-PORT HUB	USB 2.0 2-PORT HUB	PLUGABLE	Trim cable to 3"
1	---	POTS ADAPTER	USB-FXS ADAPTER	AMFELTEC	Set dip switch to 1

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DUAL POTS ADAPTER


REV	DESCRIPTION	DATE
A	Initial release	8/15/2021

FROM	TO	CUT LEN
P1.1	J1.1	3 inch Red
P1.2	J1.2	3 inch White
P1.3	J1.3	3 inch Green
P1.4	NC	
P1.5	J1.4	3 inch Black
P1.6	NC	
P1.7	NC	
P1.8	NC	
P1.9	NC	
P1.10	NC	
P1.11	NC	
P1.12	NC	

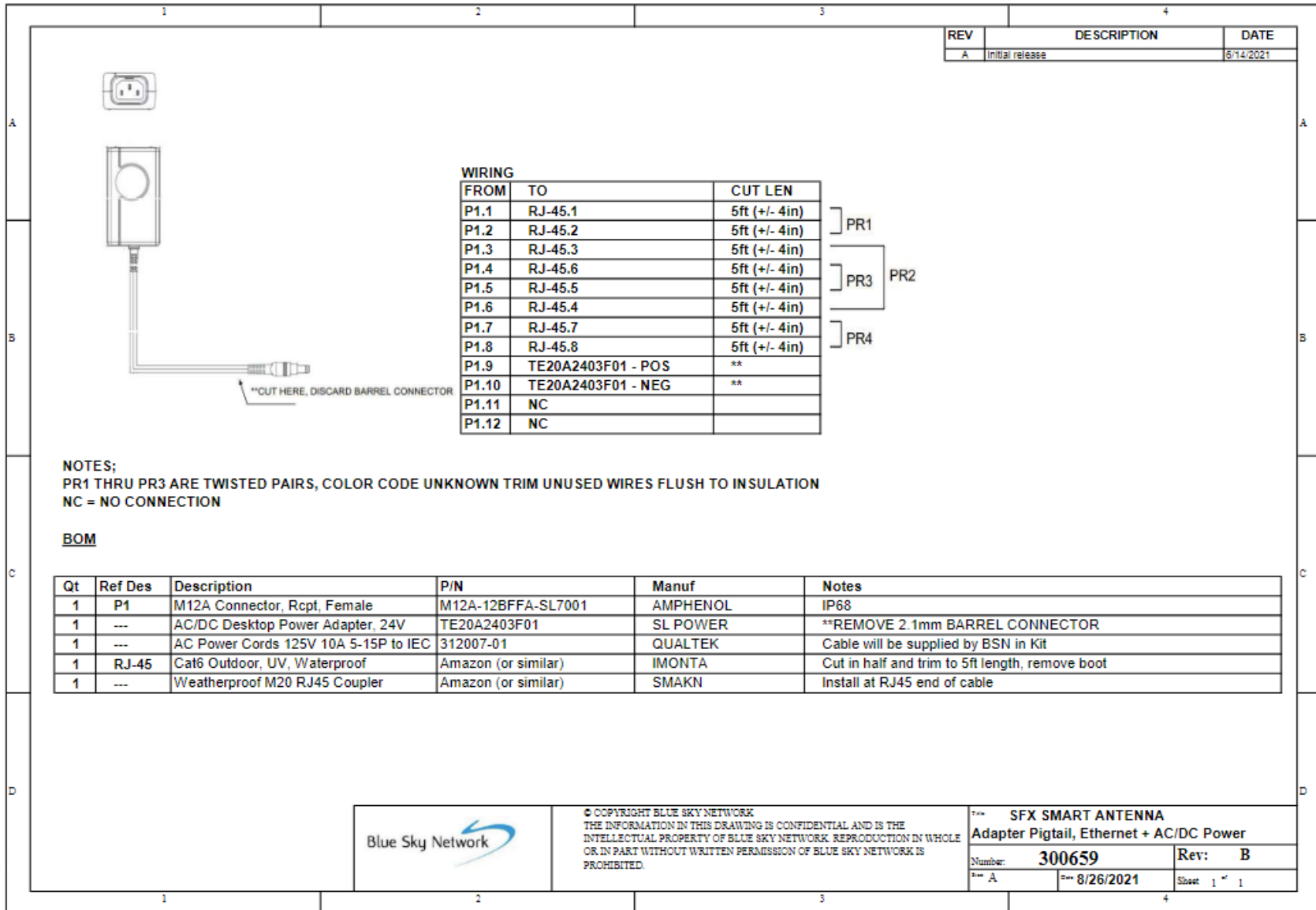
NOTES:
 J1 SHIELD WIRE NOT USED
 HEAT SHRINK FROM AMPHENOL CONN TO POTS ADAPTERS
 TRIM UNUSED WIRES FLUSH TO INSULATION
 NC = NO CONNECTION

BOM

Qt	Ref Des	Description	P/N	Manuf	Notes
1	P1	CONN PLUG MALE 12P GOLD SLDR	M12A-12BMMA-	AMPHENOL	IP68
1	---	300MM USB FEMALE TO PICOLOCK	2061070002	MOLEX	Remove Picolock Connector, cut shield wire
1	J1	PLUGABLE USB 2.0 2-PORT HUB	USB 2.0 2-PORT HUB	PLUGABLE	Trim cable to 3"
2	---	POTS ADAPTER	USB-FXS ADAPTER	AMFELTEC	Set dip switches, 1 and 2.

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PIGTAIL ADAPTER, ETHERNET + ACDC POWER



PIGTAIL ADAPTER, ETHERNET + 12V CIGARETTE ADAPTER

REV	DESCRIPTION	DATE
A	Initial release	6/15/2021

WIRING

FROM	TO	CUT LEN
P1.1	RJ-45.1	5ft (+/- 4in)
P1.2	RJ-45.2	5ft (+/- 4in)
P1.3	RJ-45.3	5ft (+/- 4in)
P1.4	RJ-45.6	5ft (+/- 4in)
P1.5	RJ-45.5	5ft (+/- 4in)
P1.6	RJ-45.4	5ft (+/- 4in)
P1.7	RJ-45.7	5ft (+/- 4in)
P1.8	RJ-45.8	5ft (+/- 4in)
P1.9	ZA5073 CENTER	** (SOLID)
P1.10	ZA5073 OUTER	** (PRINT)
P1.11	NC	
P1.12	NC	

PR1
PR2
PR3
PR4

NOTES;
 PR1 THRU PR3 ARE TWISTED PAIRS, COLOR CODE UNKNOWN TRIM UNUSED WIRES FLUSH TO INSULATION
 NC = NO CONNECTION

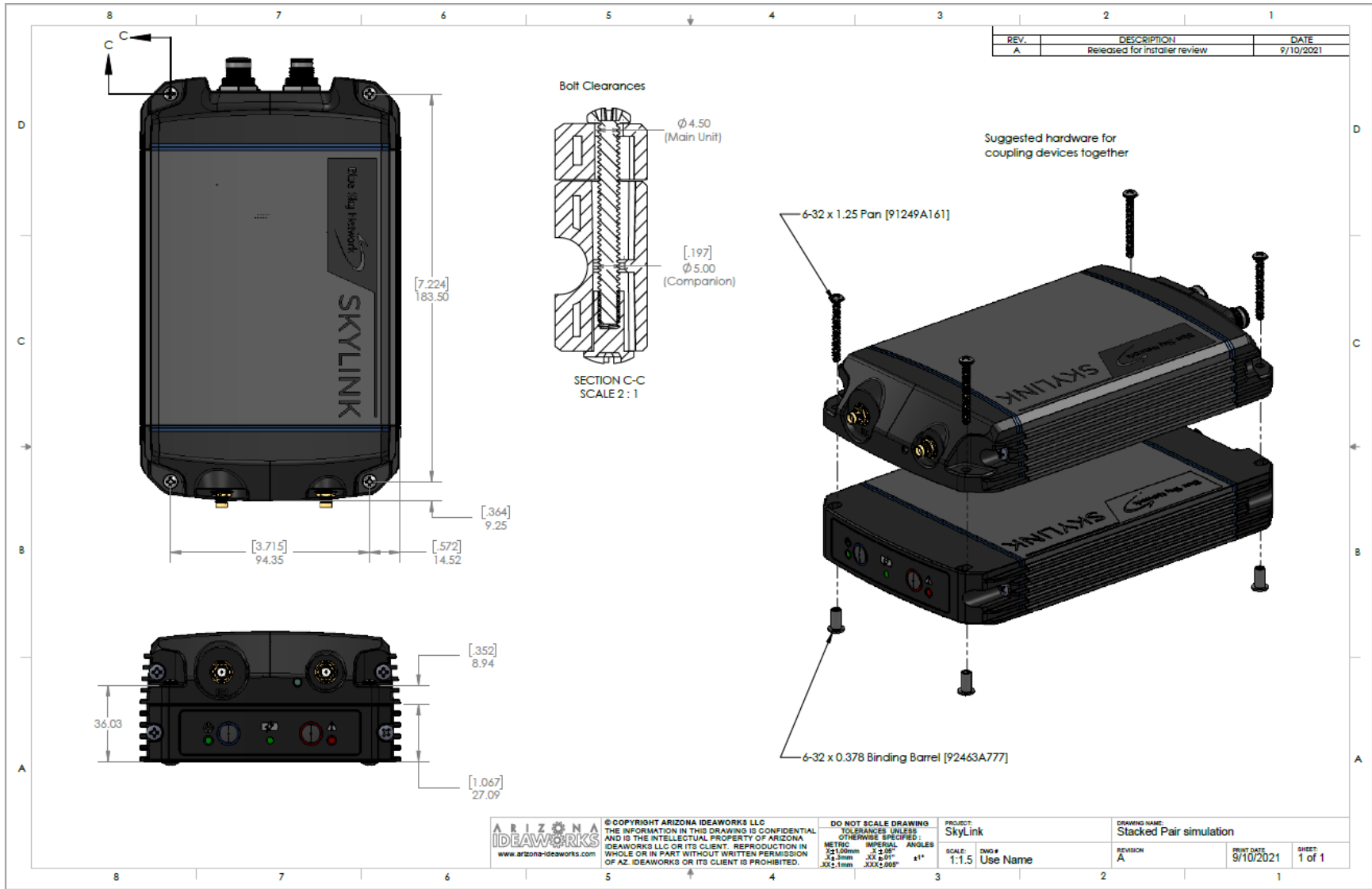
BOM

Qt	Ref Des	Description	P/N	Manuf	Notes
1	P1	M12A Connector, Rcpt. Female	M12A-12BFFA-SL7001	AMPHENOL	IP68
1	---	AUTO CBL ASSY W/PLG 12V 5A	ZA5073	MPD	**REMOVE 2.1mm BARREL CONNECTOR
1	RJ-45	Cat6 Outdoor, UV, Waterproof	Amazon (or similar)	IMONTA	Cut in half and trim to 5ft length, remove boot
1	---	Weatherproof M20 RJ45 Coupler	Amazon (or similar)	SMAKN	Install at RJ45 end of cable

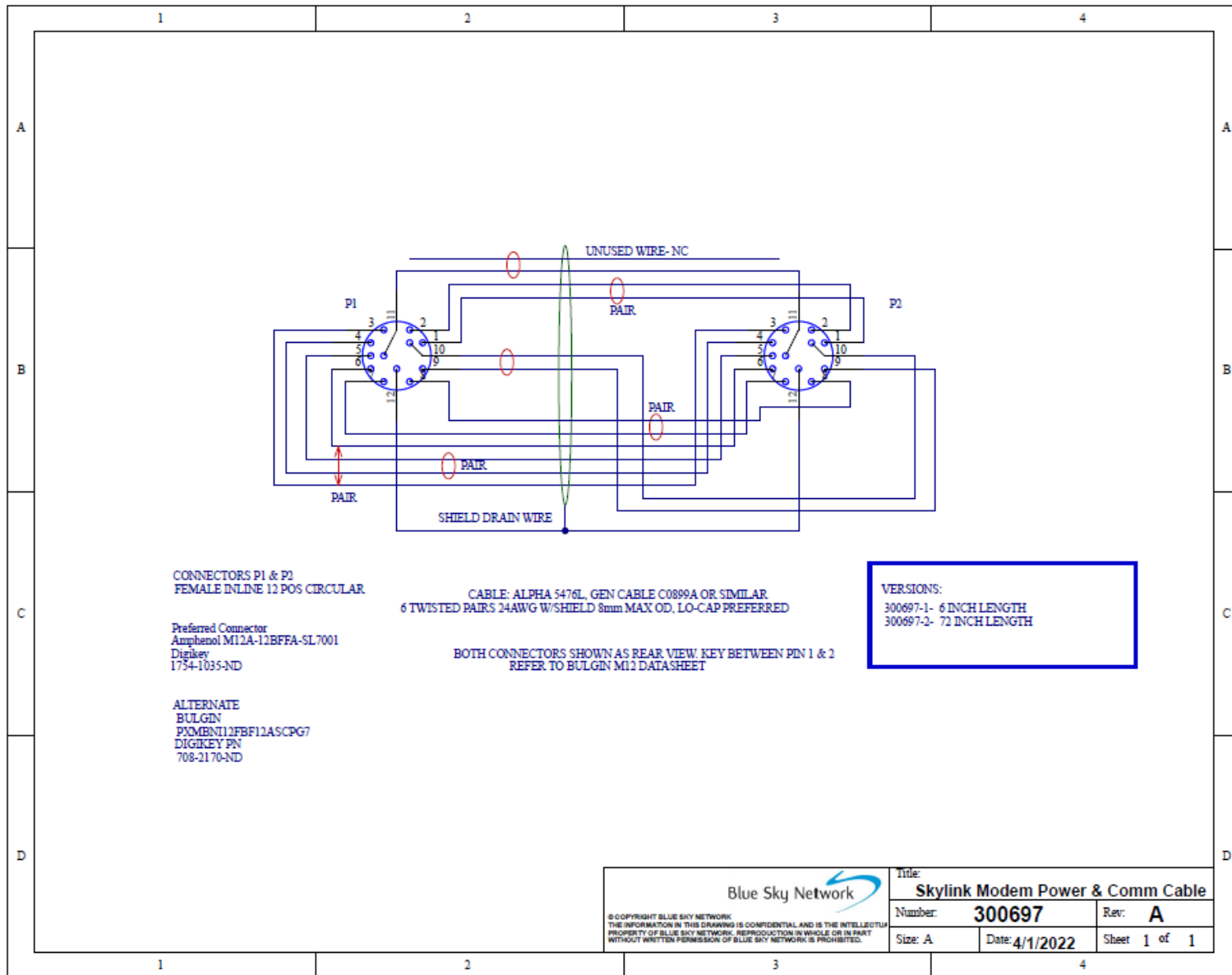
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APPENDIX C – BATTERY PACK CABLE DIAGRAMS

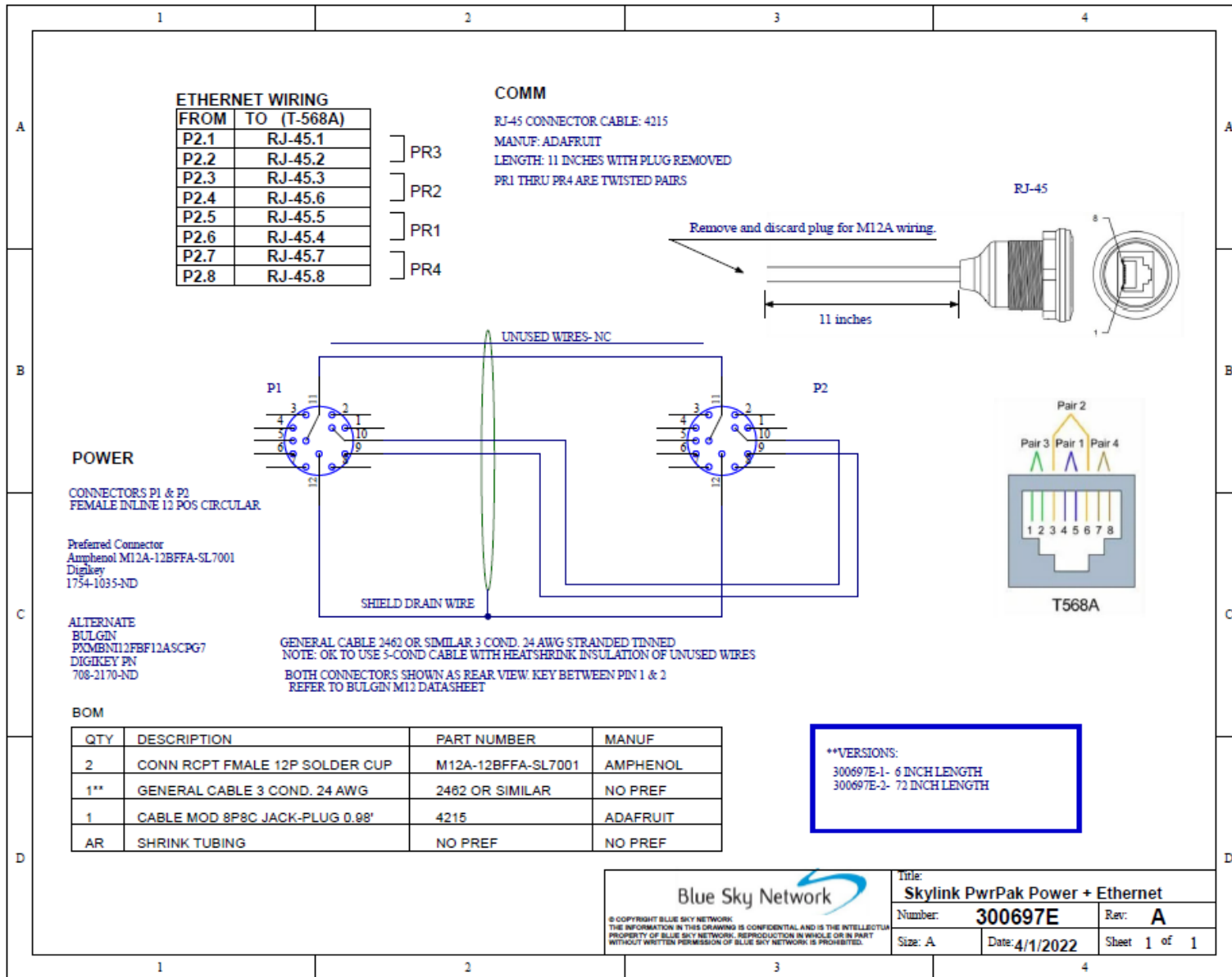
MOUNTING BATTERY PACK TO DATA GATEWAY



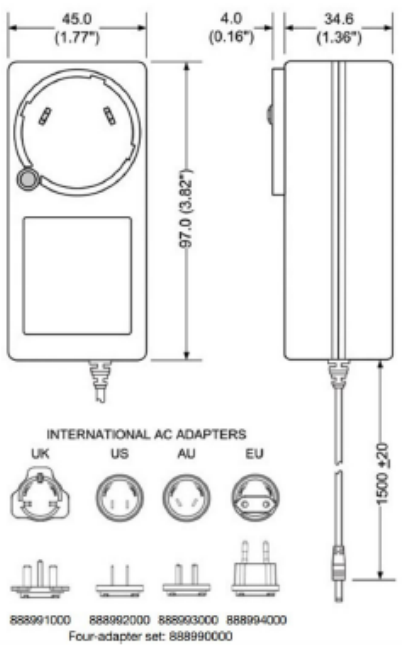

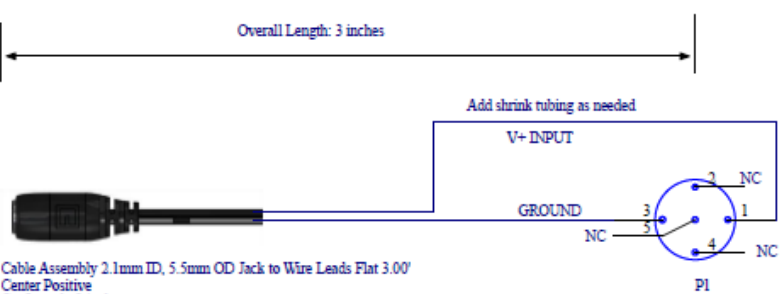

SKYLINK MODEM POWER & COMM CABLE



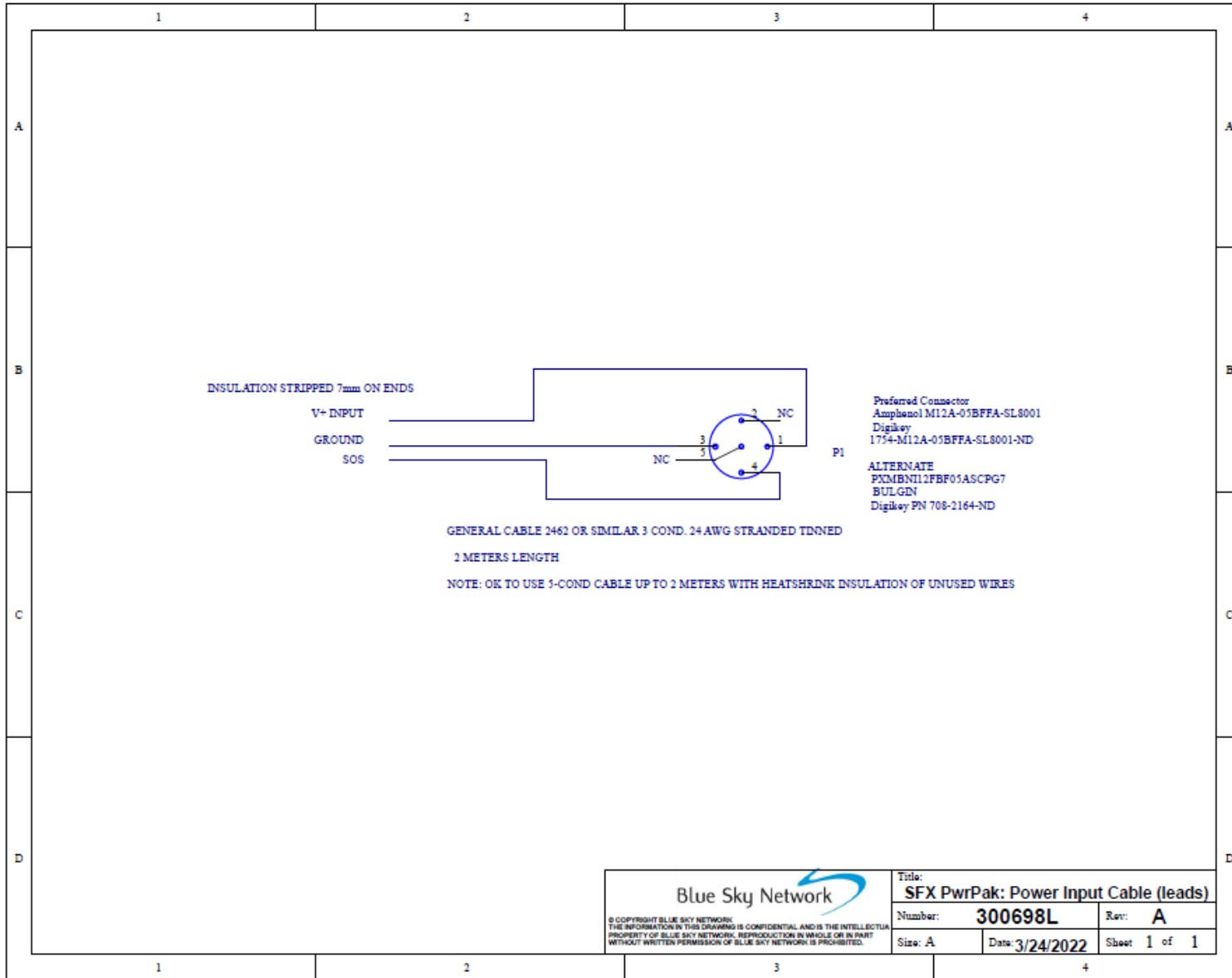
SKYLINK POWER PACK & ETHERNET



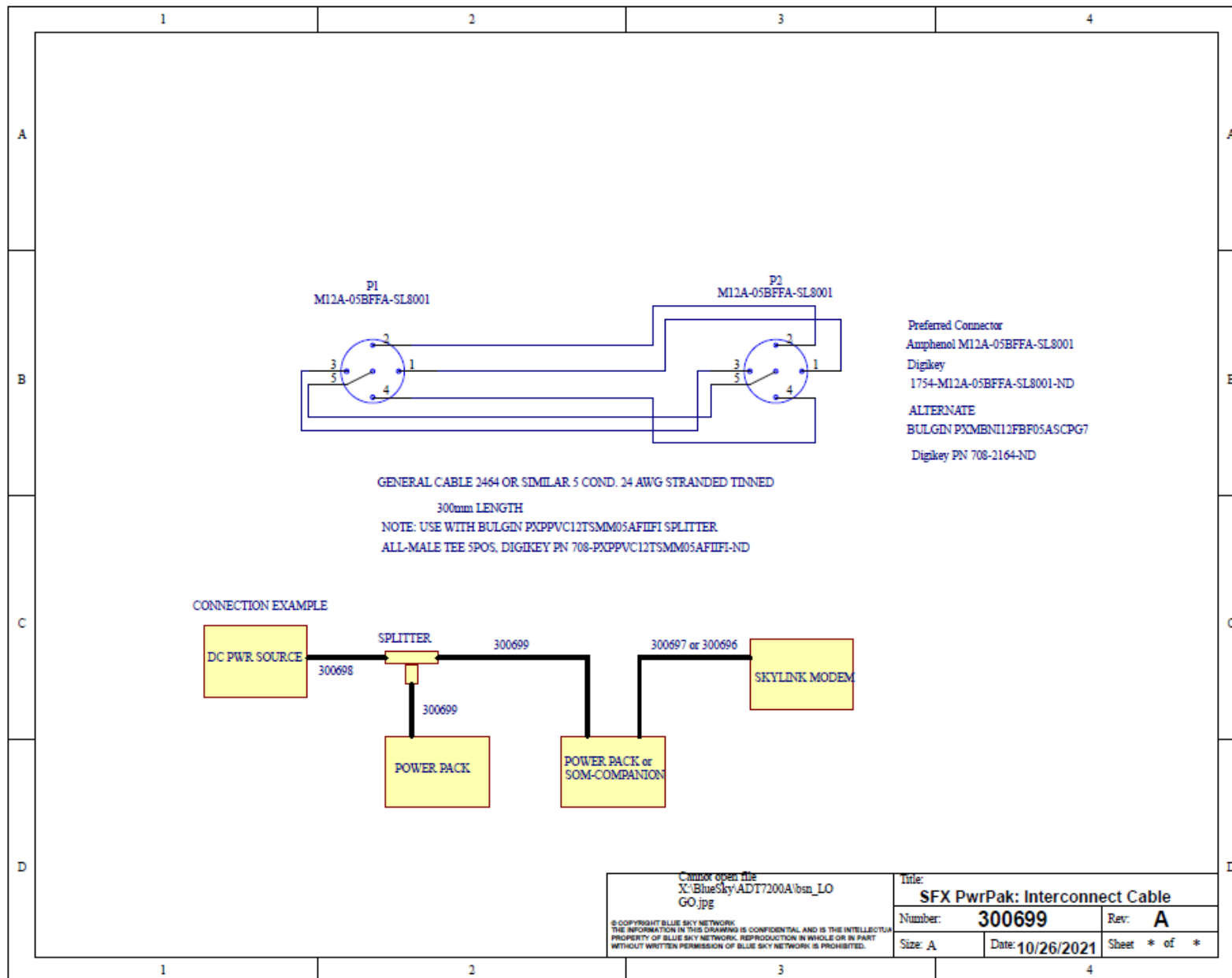
SFX POWER PACK: POWER INPUT CABLE

1	2	3	4																																												
 <p style="text-align: center;">AC</p> <p>Wall Adapter: 24VDC, 1.5A Output Manuf PN: ICM36-240 Manuf: Tri-Mag, LLC</p> <p>4-Plug Adapter Set: 888990000</p> <p style="text-align: center;">INTERNATIONAL AC ADAPTERS</p> <p style="text-align: center;">UK US AU EU</p> <p style="text-align: center;">888991000 888992000 888993000 888994000</p> <p style="text-align: center;">Four-adapter set: 888990000</p>	<p style="text-align: center;">DC</p>  <p style="text-align: center;">ZA5074-2.5</p>	<p style="text-align: center;">Overall Length: 3 inches</p>  <p style="text-align: center;">Add shrink tubing as needed</p> <p style="text-align: center;">V+ INPUT</p> <p style="text-align: center;">GROUND</p> <p style="text-align: center;">NC 1 2 3 4 NC</p> <p style="text-align: center;">PI</p> <p style="text-align: center;">Preferred Connector Amphenol MI2A-05BFFA-SL8001 Digikey 1754-MI2A-05BFFA-SL8001-ND</p> <p style="text-align: center;">ALTERNATE FXCMBN112FBF05ASCPG7 BULGEN Digikey PN 708-2164-ND</p>																																													
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SFX POWER PACK: POWER INPUT CABLE (LEADS)



SFX POWER PACK: INTERCONNECT CABLE



SUPPORT

Blue Sky Network is committed to providing the highest level of service and support. If you have any questions or concerns, please feel free to contact us by email or phone; contact information is available at the bottom of this page. For self-help, please visit <https://blueskynetwork.com/support>.

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