

Cobham AVIATOR SP

INTRODUCTION

Amphenol CIT is pleased to offer turnkey integration kits for the Cobham AVIATOR SP system. These kits are ideal for all installations where customized engineering is expensive and unnecessary.

Coax and Harness Kits are engineered to custom cabling lengths and include connectors to match your installation needs. The trays are manufactured per the Cobham specification. Amphenol CIT's engineering team is available to answer questions and provide guidance on selecting the perfect combination of components for your specific application.

| FEATURES | BENEFITS |
|---------------------|--|
| System Coaxial Kits | • Custom lengths; fully and partially terminated cable options |
| SDU & HPA Trays | • 2 & 3 MCU Fan & Non-Fan cooled options |
| System Harness Kits | • Custom lengths; terminated at SDU connector end |



2 MCU with Bottom DC Fan (P/N: 200-106639-101)



Dual 2/3 MCU with Bottom DC Fan & Rails (P/N: 200-106027-102)



2 MCU with No Fan (P/N: 6L02S2C1C20)

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TRAYS

The trays are designed per the AVIATOR SP system specifications. Standard 2 MCU trays are available for the SDU-7320 and HPA-7450 LRUs; a 3 MCU tray is available for the 4-Channel SDU-7330. If your installation requires forced air cooling, fan-cooled trays are available as well. Refer to the table below to determine the trays that best fit your installation or contact Amphenol CIT engineering to customize a tray to meet your needs.

| LRU | Tray Size | Fan Location | Fan Power | Part Number | Specification Drawing |
|---------------------|--------------|-----------------|-----------------|----------------|-----------------------|
| SDU-7320 | 2 MCU | No Fan | N/A | 6L02S2C1C20 | ECS-210770 |
| | | Bottom | 28 VDC | 200-106694-101 | 900-106695 |
| | | Left | 28 VDC | 200-106694-102 | 900-107170 |
| | | Right | 28 VDC | 200-106694-103 | 900-107171 |
| | | Rear | 28 VDC | 200-106694-104 | 900-107172 |
| | | Bottom | 115 VAC, 400 Hz | 200-106694-105 | 900-107173 |
| | | Left | 115 VAC, 400 Hz | 200-106694-106 | 900-107174 |
| | | Right | 115 VAC, 400 Hz | 200-106694-107 | 900-107175 |
| HPA-7450 | 2 MCU | No Fan | N/A | 6L02S2C1C20 | ECS-210770 |
| | | Bottom | 28 VDC | 200-106639-101 | 900-106640 |
| | | Left | 28 VDC | 200-106639-102 | 900-107177 |
| | | Right | 28 VDC | 200-106639-103 | 900-107178 |
| | | Rear | 28 VDC | 200-106639-104 | 900-107179 |
| | | Bottom | 115 VAC, 400 Hz | 200-106639-105 | 900-107180 |
| | | Left | 115 VAC, 400 Hz | 200-106639-106 | 900-107181 |
| | | Right | 115 VAC, 400 Hz | 200-106639-107 | 900-107182 |
| SDU-7330 | 3 MCU | No Fan | N/A | 6L03S2C1C20 | ECS-210775 |
| | | Bottom | 28 VDC | 200-107184-101 | 900-107185 |
| | | Left | 28 VDC | 200-107184-102 | 900-107186 |
| | | Right | 28 VDC | 200-107184-103 | 900-107187 |
| | | Rear | 28 VDC | 200-107184-104 | 900-107188 |
| | | Bottom | 115 VAC, 400 Hz | 200-107184-105 | 900-107189 |
| | | Left | 115 VAC, 400 Hz | 200-107184-106 | 900-107190 |
| | | Right | 115 VAC, 400 Hz | 200-107184-107 | 900-107191 |
| SUD-7330 & HPA-7450 | Dual 2/3 MCU | No Fan | N/A | 200-106027-110 | 900-107193 |
| | | Bottom | 28 VDC | 200-106027-101 | 900-107194 |
| | | Bottom w/ Rails | 28 VDC | 200-106027-102 | 900-106028 |
| | | Left | 28 VDC | 200-106027-103 | 900-107195 |
| | | Right | 28 VDC | 200-106027-104 | 900-107196 |
| | | Rear | 28 VDC | 200-106027-105 | 900-107197 |
| | | Bottom | 115 VAC, 400 Hz | 200-106027-106 | 900-107198 |
| | | Left | 115 VAC, 400 Hz | 200-106027-107 | 900-107199 |
| | | Right | 115 VAC, 400 Hz | 200-106027-108 | 900-107200 |
| | | Rear | 115 VAC, 400 Hz | 200-106027-109 | 900-107201 |

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COAXIAL CABLE KITS

Coaxial Cable Kits are engineered to your required length and optimized for loss and attenuation dependent upon your installation length. Various cable types and connectors (Straight or Right Angle) are available to optimize your installation needs. The kits are designed for all antenna configurations. Just plug and play!

Please refer to the configurator worksheet and drawings below to generate your coax P/N. TNC connectors and ARINC sockets are automatically chosen based on cable type and connector configuration.

INSTRUCTIONS

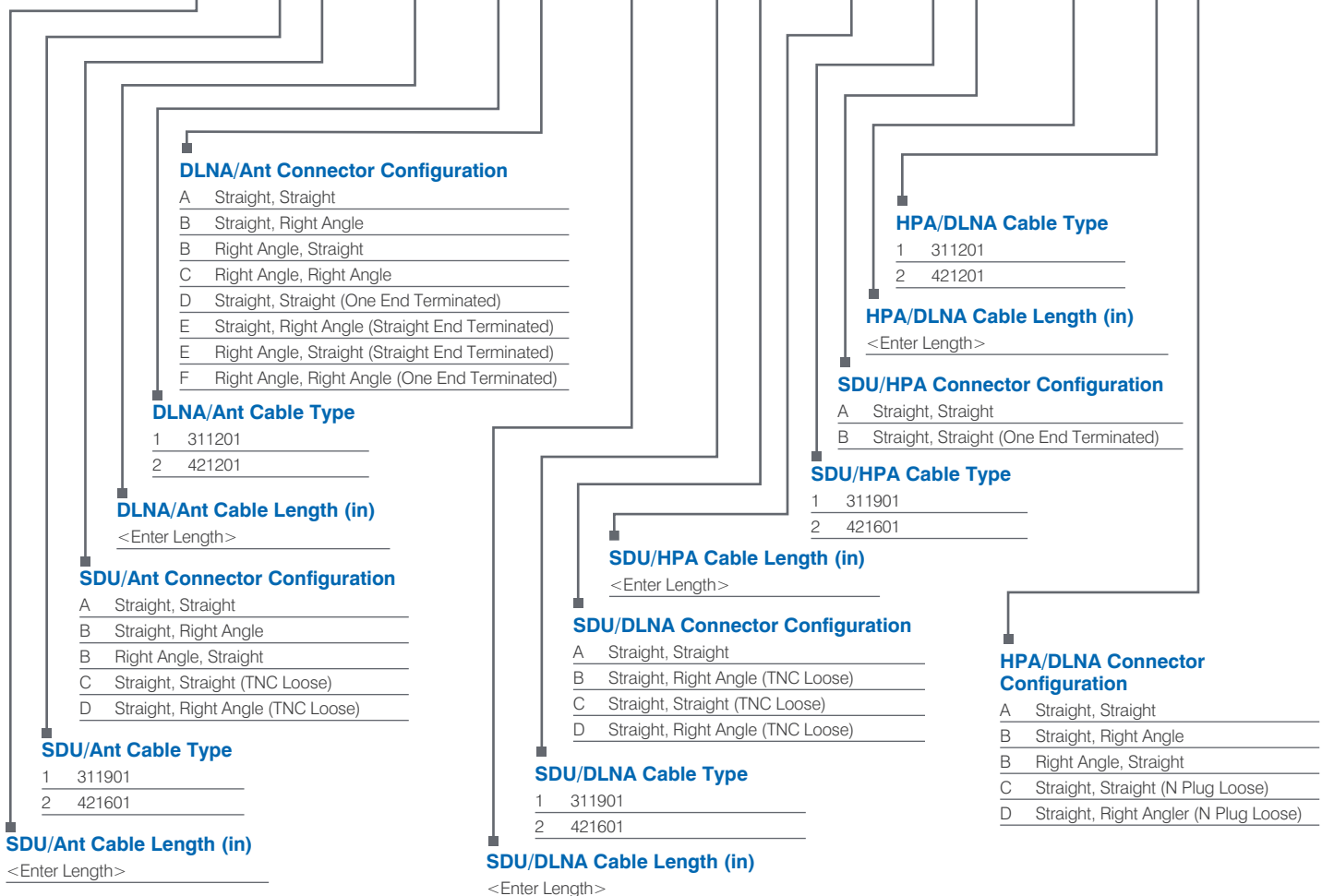
- 1) Complete as many questions as possible on the following form.
- 2) Email a copy of this form to Sales@CarlisleIT.com or fax a copy to 414.421.5301.
Call Amphenol CIT Customer Service with any questions +1 (800) 458-9960.

Contact Name: **Order Date:** **Purchase Order Number:**
Company: **Date Needed:** **Quantity:**
Telephone: **Fax:** **Email:**

STANDARD PART NUMBER GUIDE FOR COAX KITS

Fill in part number below.

500-106538- / / / /



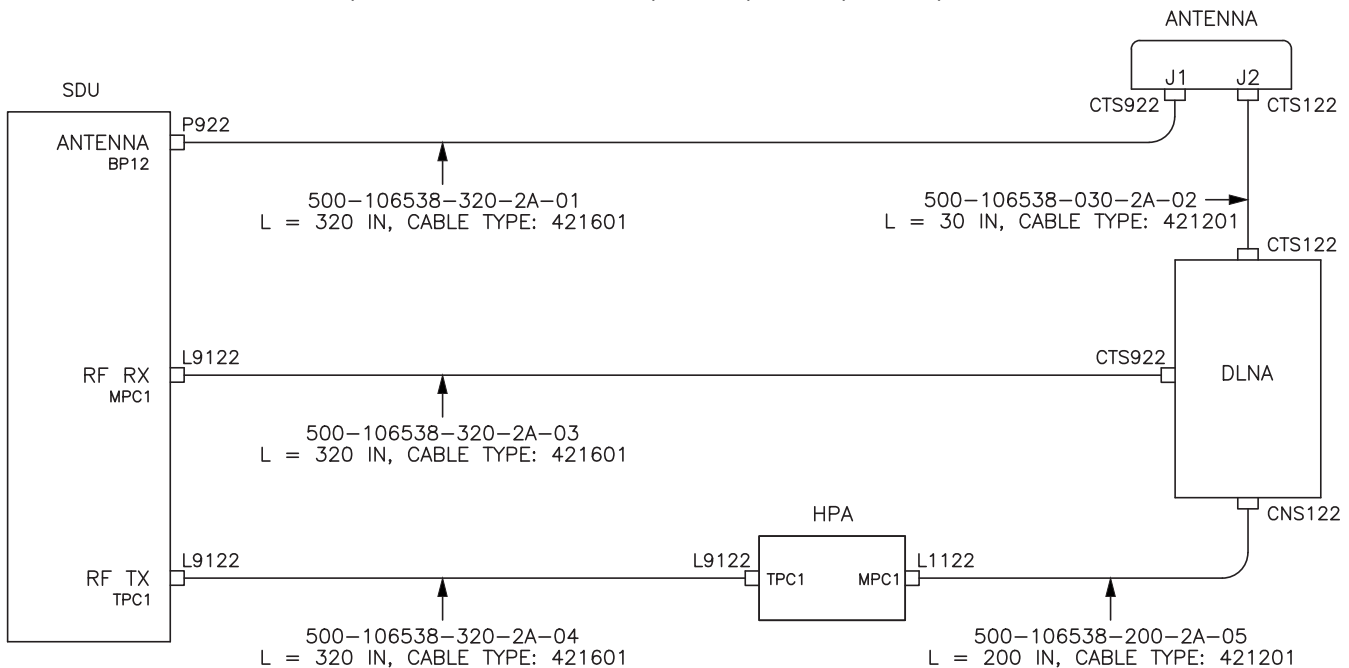
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EXAMPLE CONFIGURATION: COAX CABLE KIT

P/N: 500-106538-3202A/0302A/3202A/3202A/2002A

- SDU/Ant Cable Length (in) = 320
- SDU/Ant Cable Type = P/N: 421601 = 2
- SDU Size 5 & Ant TNC Connector Configuration = Straight, Straight = A
- DLNA/Ant Cable Length (in) = 030
- DLNA/Ant Cable Type = P/N: 421201 = 2
- DLNA TNC & Ant TNC Connector Configuration = Straight, Straight = Av
- SDU/DLNA Cable Length (in) = 320
- SDU/DLNA Cable Type = P/N: 421201 = 2
- SDU Size 1 & DLNA TNC Connector Configuration = Straight, Straight = A
- SDU/HPA Cable Length (in) = 320
- SDU/HPA Cable Type = P/N: 421201 = 2
- SDU Size 1 & HPA Size 1 Connector Configuration = Straight, Straight = A
- DLNA/HPA Cable Length (in) = 200
- DLNA/HPA Cable Type = P/N: 421201 = 2
- DLNA N & HPA Size 1 Connector Configuration = Straight, Straight = A

Example Coax Configuration
P/N: 500-106538-3202A/0302A/3202A/3202A/2002A



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SDU CONNECTOR HARNESS KIT

SDU Connector Harness Kits are engineered to the desired lengths of each aircraft bus location and the system specified in the installation manual. Please refer to the following worksheets to build your SDU harness. The harnesses are terminated at the SDU connector end and capped at the A/C end. Ethernet, databus, USB, and discrete wires specified in the installation manual are used to populate the connector harnesses. The kit also includes the mating backshells, as well as the loose ARINC 600 HPA connector, D38999 antenna connector, and MS3475 DLNA connector. Additional bulk wire can be purchased separately from the harnesses to accommodate any additional Ethernet and databus connections needed to complete your installation.

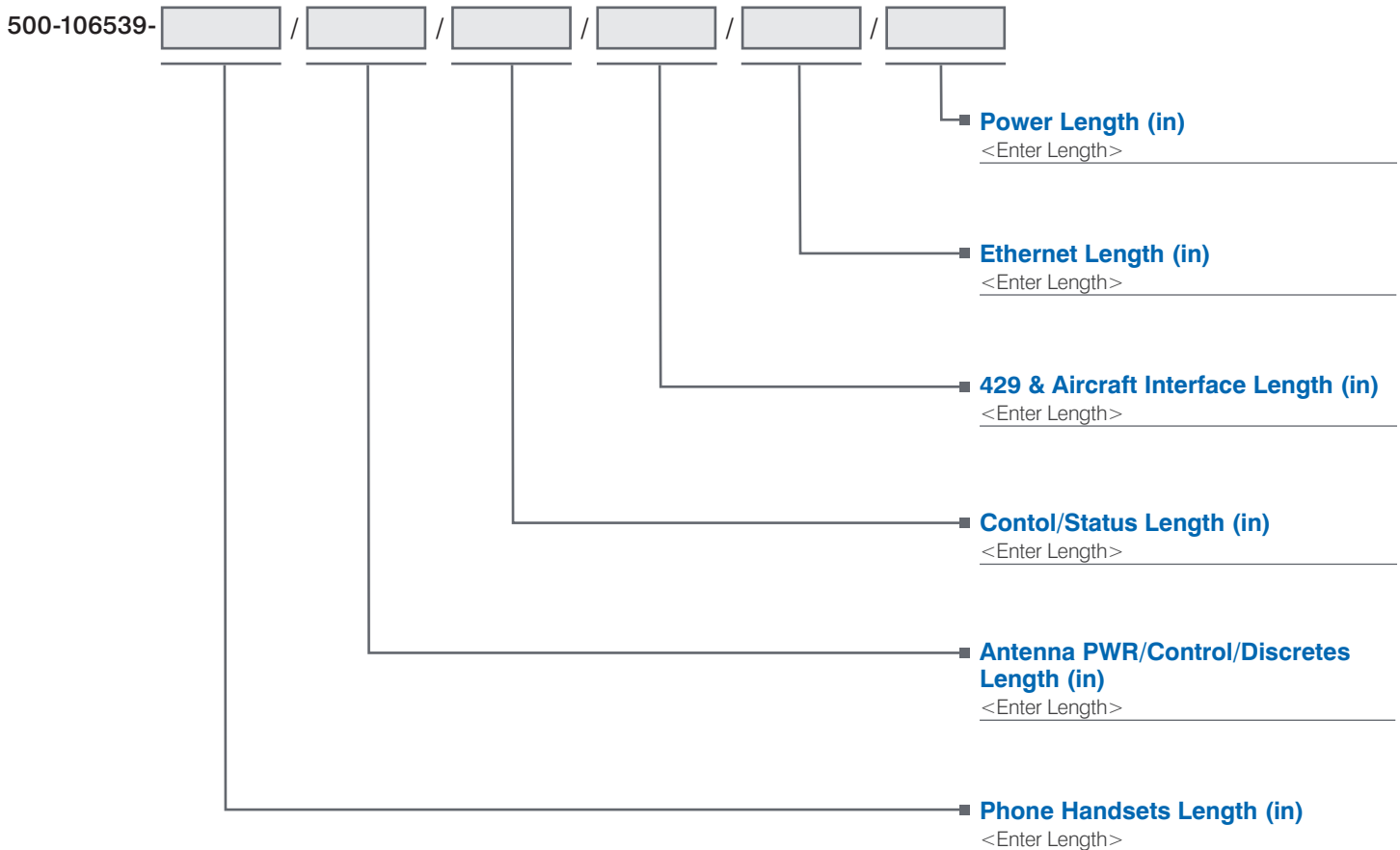
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| | | |
|---|--|--|
| Contact Name: <input style="width: 90%;" type="text"/> | Order Date: <input style="width: 80%;" type="text"/> | Purchase Order Number: <input style="width: 95%;" type="text"/> |
| Company: <input style="width: 90%;" type="text"/> | Date Needed: <input style="width: 80%;" type="text"/> | Quantity: <input style="width: 95%;" type="text"/> |
| Telephone: <input style="width: 90%;" type="text"/> | Fax: <input style="width: 80%;" type="text"/> | Email: <input style="width: 95%;" type="text"/> |

STANDARD PART NUMBER GUIDE FOR SDU HARNESS KITS

Fill in part number below



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EXAMPLE CONFIGURATION: SDU CONNECTOR HARNESS KITS

P/N: 600-106539-120/024/020/018/100/080

Length to Phone Handsets = 120"

- Length to Antenna PWR/Control/Discrete = 24"
- Length to Control/Status = 20"
- Length of Power Wire = 18"
- Length of Ethernet = 100"
- Length to 429 and Aircraft Interface = 80"
- HPA Connector = NSXN2P221X00, Qty 1 (loose)
- Antenna Connector = D38999/26SC35SN, Qty 1 (loose)
- DLNA Connector = MS3475L12-10SN, Qty 1 (loose)

Example Harness Configuration P/N: 600-106539-120/024/020/018/100/080

