

## 9 PIN HELICOPTER CONNECTOR VARIATIONS

#1. For: Remote Hook, Bambi Bucket, Simplex Helitorch, and Seeders (2 Wire Type). For additional information see FS/OAS E-2.

Pin	Function
D	Aircraft Ground
E	+28 VDC (Bucket/Hook Open & Torch/Seeder On)

#2. For: Griffith Bucket (7 Wire Type). For additional information see FS/OAS E-7.

Pin	Function	Bucket Wire Color
A	Up Limit Relay Coil	Green #16
B	Up Switch	White #16
F	+28 VDC/Ground (Up)	White #12
G	Down Limit Relay Coil	Red #16
H	Ground/+28 VDC (Down)	Black #12
I	Down Switch	Black #16

#3. For: SIMS Bucket (3 Wire Type). For additional information see FS/OAS E-5.

Pin	Function	Bucket Wire Color
B	+28 VDC/Ground	Green
G	Ground (Close)	White
I	+28 VDC (Open)	Black

#4. For: SIMS Bucket (8 Wire Type). For additional information see FS/OAS E-6.

Pin	Function	Bucket Wire Color
A	+28 VDC (Open)	White/Black
D	Aircraft Ground	Blue & Green
F	+28 VDC System Power	White, Red, & Black
H	Indicator Light	Red/Black
I	+28 VDC (Close)	Orange

#5. For: Chadwick Bucket (2 Wire Type). For additional information see FS/OAS E-4.

Pin	Function
B	+28 VDC/Ground (Open)
H	Ground/+28 VDC (Close)

#6. For: Brackett Carousel & Chadwick Bucket (3 Wire Type). For additional information see FS/OAS E-3.

Pin	Function
C	+28 VDC Reset/Bucket Close
D	Aircraft Ground
E	+28 VDC Hook/Bucket Open

**PARTS FOR CONNECTORS 1 THROUGH 6**  
 Connector on Helicopter (In-Line) MS3101E24-11S  
 or (Bulkhead) MS3102E24-11S  
 Mating Connector MS3107B24-11P  
 Dust Cap for Helo Connector (Optional) MS25043-24D  
 Dust Cap for Mating Connector (Optional) MS25042-24D

Connector on helicopter secured to airframe by wire lanyard or other acceptable method. Any method must ensure the electrical wiring shall not carry any load when the connector is disconnected.

Mating Connector on Bucket, Hook, etc., must have the threaded locking ring removed.

## 3 PIN ACCESSORY POWER SOURCE (APS) CONNECTOR

For: Supplemental Slip-in Radio Equipment, IR Equipment, Sphere Dispensers, and Miscellaneous Equipment.

Pin	Function
A	+28 VDC (On 28 Volt Aircraft Only)
B	Aircraft Ground
C	+14 VDC (On 14 Volt Aircraft Only)

**PARTS FOR APS CONNECTOR**  
 APS Connector MS3112E12-3S  
 Mating Connector MS3116F12-3P  
 Dust Cap for APS Connector (Optional) MS3181-12C

RevNo	Revision note	Date	Initials	Checked	National Interagency Fire Center (NIFC)				Avionics (208) 387-5643	
1	Specified Connector Cap, Added AUX-FM & AUX Power Connector	02/10/1988	UNK	UNK	Designed by VIRGL	Checked by UNKNOWN	Approved by - date UNKNOWN	Filename 120003A1	Date 02/18/2000	Scale NONE
A	Consolidated Connector Listing	02/08/2000	FAS	BC						
<b>U.S.D.A</b>					<b>STANDARDIZED CONNECTORS</b>					
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## 10 PIN AUXILIARY-FM (AUX-FM) CONNECTOR

For: Allowing portable radios, normally VHF-FM, to interface with an aircraft's audio system.

All information on Auxiliary-FM aircraft installations is located in drawing FS/OAS A-17.

## AUXILIARY-FM (AUX-FM) ADAPTER CABLE FOR RELM (KING) RADIOS

For: Using Relm (King) portable radios with an AUX-FM system in an aircraft.

All information on Auxiliary-FM adapter cables for RELM (King) portable radios is located in drawing FS/OAS A-15.

## TEST PLUGS FOR ACCESSORY 3 PIN AND BUCKET 9 PIN CONNECTORS

For: Testing contractually required Accessory 3 pin and Helicopter Bucket 9 pin connectors.

All information on Aircraft Test Plugs is located in drawing FS/OAS A-18.

## PARTS SOURCES

Electronic Connectors Corp.	(800) 742-3262
Spacecraft Electronics Corp.	(310) 973-6400
Allied Electronics	(800) 433-5700
Newark Electronics	(800) 463-9275
Dallas Avionics	(800) 527-2581
AIS	(800) 553-2233

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1	Specified Connector Cap, Added AUX-FM & AUX Power Connector	02/10/1988	UNK	UNK	Designed by VRGIL	Checked by UNKNOWN	Approved by - date UNKNOWN	Filename 120003A2	Date 02/18/2000	Scale NONE
A	Consolidated Connector Listing	02/08/2000	FAS	BG						
<b>U.S.D.A</b>					<b>STANDARDIZED CONNECTORS</b>					
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