

## 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)				Avlonics (208) 387-5643	
1	Specified Connector Cap, Added AUX-FM & AUX Power Connector	02/10/1988	UNK	UNK	Designed by	Checked by	Approved by - date	Filename	Date	Scale
A	Consolidated Connector Listing	02/08/2000	FAS	BC	VIRGIL	UNKNOWN	UNKNOWN	120003A1	02/18/2000	NONE
<b>U.S.D.A</b>					<b>STANDARDIZED CONNECTORS</b>					
<b>FOREST SERVICE</b>					FS/OAS A-16				Revision	Sheet
									A	1/2

### 10 PIN AUXILIARY-FM (AUX-FM) CONNECTOR FOR AIRCRAFT

Use: 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 PORTABLE RADIOS

Use: Interfacing portable radios with an aircraft AUX-FM system. AUX-FM adapter cables for RELM (King) portable radios located in drawing FS/OAS A-15.

AUX-FM adapter cables for RACAL P25 portable radios located in drawing FS/OAS A-25.

AUX-FM adapter cables for Motorola XTS3000 portable radios located in drawing FS/OAS A-26.

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

Use: 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

### Drawings on the Web

FS/OAS Drawings can be found on the Web at:  
[WWW.FS.FED.US/FIRE/NIICD/AVIONICS](http://WWW.FS.FED.US/FIRE/NIICD/AVIONICS)

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A	Consolidated Connector Listing	02/08/2000	FAS	BC						
B	Updated AUX-FM Listing	01/21/2003	FAS	BC						
					<b>U.S.D.A FOREST SERVICE</b>			<b>STANDARDIZED CONNECTORS</b>		
					<b>FS/OAS A-16</b>			Revision B	Sheet 2/2	