

## Helicopter 9 Pin Connectors

#1. Two wire type connectors (remote hook, bucket, helitorch and seeders)

- D Aircraft ground
- E +28 VDC (bucket/hook open & torch/seeders on)

#2. Three wire type connectors with Additional Telemetry Unit (ATU) support (remote hook, bucket, helitorch and seeders)

- D Aircraft ground
- E +28 VDC (bucket/hook open & torch/seeders on)
- G ATU bucket ground connection

Connectors on helicopters shall be secured to the airframe by a wire lanyard or other acceptable method. Any method must ensure the connector's electrical wiring shall not carry any physical load when the connector is disconnected.

Mating connectors on buckets, remote hook, etc., must have the threaded locking ring removed.

Power to the Helicopter 9 Pin Connector typically requires a 50 ampere circuit breaker (see contract specifications)

### Parts for Helicopter 9 Pin Connectors

Connector on helicopter:	In-line type	MS3101E24-11S
	Bulkhead type	MS3102E24-11S
Mating connector (on device)		MS3107B24-11P
Dust cap for Helicopter connector (optional)		MS25043-24D
Dust cap for Mating connector (optional)		MS25042-24D

## Auxiliary 3 Pin Power Source Connector (AUX)

Connector used as a general power source for a wide range of equipment. Only two pins shall be operational.

- A +28 VDC (used on 28 volt aircraft only)
- B Aircraft ground
- C +14 VDC (used on 14 volt aircraft only)

Each AUX connector shall have its own dedicated circuit breaker (see contract specifications for required amperage). The amperage of the circuit breaker is typically 10 amperes in fixed wing aircraft and 5 amperes in helicopters.

### Parts for AUX Connector

AUX Connector: Bulkhead type	MS3112E12-3S
Mating connector (on device)	MS3116F12-3P
Dust cap for AUX connector (optional)	MS3181-12C

FS/OAS drawings are available at:  
[www.nifc.gov/NIICD/documents.html](http://www.nifc.gov/NIICD/documents.html)

RevNo	Revision note	Date	Initials	Checked	National Interagency Fire Center (NIFC)				Avionics (208) 387-5648	
1	Specified connector cap and added AUX-FM & AUX power connectors	02/10/1988	Unknown	Unknown	Designed by VIRGIL	Checked by UNKNOWN	Approved by - date UNKNOWN	Filename 120003C	Date 02/02/2017	Scale NONE
A	Consolidated connector listing	02/08/2000	FAS	BC						
B	Revised connector information	02/01/2017	FAS	Group						
C	Consolidated information onto one page	02/02/2017	FAS	Group						
<b>U.S. FOREST SERVICE</b>					<b>STANDARDIZED CONNECTORS</b>					
					FS/OAS A-16			Revision C	Sheet 1/1	