



TELEPHONE PLUGS AND JACKS:

Shells:	Plastic	
Contacts:	Plugs:	Nickel-plated Brass
	Jacks:	Monel
Solder Contact Terminals:	Pre-tinned over nickel plating	
Contact Resistance:	≤ .02Ω	
Insulation Resistance:	≥ 1,000 mΩ	
Dielectric Withstanding Voltage:	≥ 500 V RMS	
Insertion Force:	13 lbs maximum	
Withdrawal Force:	6 -10 lbs	

Amphenol NEXUS Technologies has been a long-time manufacturer and qualified military supplier of airborne audio connectors, see MIL-DTL-9177. Our special ruggedized design has been the industry standard on military and commercial helmets and headsets for many years.

In addition to the military qualified parts, we offer a number of connector options for different mounting styles, switch functions, and soldier attachments. Electrical, mechanical, and environmental features of these connectors include:

- Environment Resisting
- RFI/EMI Protection
- Low-level Circuit Capabilities
- High Cross-talk Resistance

This connector design isn't just limited to communications systems. Other markets are exploring the benefits of the quick-disconnect, rotatable connector design for harsh environments including drilling systems and other commercial/industrial applications.

RUGGEDIZED TELEPHONE PLUGS:



TP-120

Conductors: 4
Conductor Type: Nickel-Plated Brass
Description: 1-Piece contacts molded into a plastic body.



TP-120-5

Conductors: 4
Conductor Type: Nickel-Plated Brass
Description: No plastic housing and strain relief clip; for custom molding directly to cable



TP-120-7

Conductors: 4
Conductor Type: Nickel-Plated Brass
Description: No plastic housing; for custom molding directly to cable



TP-101

Mil-Spec Designation: U-174/U M9177/2-1
Conductors: 4
Conductor Type: Monel
Description: 1-Piece contacts molded into a plastic body.



TP-102

Mil-Spec Designation: U-93A/U M9177/1-1
Conductors: 4
Conductor Type: Nickel-Plated Brass
Description: 1-piece contacts molded into a plastic body; accommodates larger cable diameter



TP-105

Mil-Spec Designation: U-384/U M642/14-01
Conductors: 5
Conductor Type: Monel
Description: 1-Piece contacts molded into a red plastic body.



TP-106

Conductors: 6
Conductor Type: Nickel-Plated Brass and BeCu
Description: 6-Conductor Biaxial Shielded Plug



TP-108

Conductors: 8
Conductor Type: Nickel-Plated Brass and BeCu
Description: 8-Conductor Biaxial Shielded Plug



TPSJ-101

Conductors: 4
Conductor Type: Monel and Nickel-Plated BeCu
Description: Telephone Plug with DPDT slide switch and MJ-101 jack section

RUGGEDIZED TELEPHONE JACKS:



TJ-120

Conductors: 4
Conductor Type: Nickel-Plated BeCu
Description: Flange Rear-Mounted Jack



TJG-120

Conductors: 5
Conductor Type: Nickel-Plated BeCu
Description: Flange Rear-Mounted Jack; with an extra contact added in a normally open circuit with the #1 contact. Insertion of a 4-conductor plug closes the #1-5 contact circuit.



TJS-120

Conductors: 5
Conductor Type: Nickel-Plated BeCu
Description: Flange Rear-Mounted Jack; with an extra contact added in a normally closed circuit with the #1 contact. Insertion of a 4-conductor plug closes the #1-5 contact circuit.



TJT-120

Conductors: 4
Conductor Type: Nickel-Plated BeCu
Description: Threaded Front-Mounted Jack



TJGT-120

Conductors: 5
Conductor Type: Nickel-Plated BeCu
Description: Threaded Front-Mounted Jack; with an extra contact added in a normally open circuit with the #1 contact. Insertion of a 4-conductor plug closes the #1-5 contact circuit.



TJ-101

Conductors: 4
Conductor Type: Nickel-Plated BeCu
Description: In-Line Jack; Contacts molded into a plastic body



TJ-102

Mil-Spec Designation: U-92A/U M9177/3-1
Conductors: 4
Conductor Type: Nickel-Plated BeCu
Description: In-Line Jack; Contacts molded into a plastic body; accommodates larger cable diameter



TJ-105

Mil-Spec Designation: U-385/U M641/22-01
Conductors: 5
Conductor Type: Nickel-Plated BeCu
Description: In-Line Jack; contacts molded into a red plastic body



TJ-106

Conductors: 6
Conductor Type: Nickel-Plated Brass and BeCu
Description: In-Line 6-Conductor Biaxial Shielded Jack



TJ-108

Conductors: 8
Conductor Type: Nickel-Plated Brass and BeCu
Description: In-Line 8-Conductor Biaxial Shielded Jack

NEXUS Part Number	Number of Conductors	Conductor Type	Description	
TJT-102*	M9177/4-1	4	Nickel-Plated BeCu	Front Panel-Mounted version of TJ-102
TJT-105*		5	Nickel-Plated BeCu	Threaded Front-Mounted Jack; with red plastic body
TJT-125*		5	Nickel-Plated BeCu	Threaded Front-Mounted Jack; threaded mounting is contact #5
TJ-106PM*		6	Nickel-Plated Brass and BeCu	Panel Mount 6-Conductor Biaxial Shielded Jack
TJ-108PM*		8	Nickel-Plated Brass and BeCu	Panel Mount 8-Conductor Biaxial Shielded Jack

*Image not shown

RUGGEDIZED JACK/SWITCH COMBINATIONS:



TJS-102

Mil-Spec Designation:
U-94/U M9177/5-2
Conductors: 4
Conductor Type:
Nickel-Plated BeCu
Description:
Combines a TJ-102 type jack with a momentary contact push-button switch and clothing clip



TJS-105

Conductors: 5
Conductor Type:
Nickel-Plated BeCu
Description:
Combines a TJ-105 type jack with a momentary contact push-button switch and clothing clip



TJS-106

Conductors: 6
Conductor Type:
Nickel-Plated Brass and BeCu
Description:
Telephone Jack Switch, Biaxial Shielded, 6 Conductors



TJSS-106

Conductors: 6
Conductor Type:
Nickel-Plated Brass and BeCu
Description:
Telephone Jack, 2 Switches, Biaxial Shielded, 6



TJS-108

Conductors: 8
Conductor Type:
Nickel-Plated Brass and BeCu
Description:
Telephone Jack Switch, Biaxial Shielded, 8 Conductors



TJSS-108

Conductors: 8
Conductor Type:
Nickel-Plated Brass and BeCu
Description:
Telephone Jack, 2 switches, Biaxial Shielded, 8 Conductors

TELEPHONE PLUGS & JACKS - WIRING SEQUENCE:

SUGGESTED WIRING SEQUENCE		
Monaural Headsets	Contact #1	Microphone, High
	Contact #2	Earphones, High
	Contact #3	Microphone, Low
	Contact #4	Earphones, Low
Binaural Headsets	Contact #1	Microphone, High
	Contact #2	Left Earphone
	Contact #3	Microphone, Low
	Contact #4	Right Earphone
	Contact #5	Earphones, Low

TELEPHONE PLUGS & JACKS - MATING CHART:

		PLUGS									
		MATES WITH	TP-120	TP-120-5	TP-120-7	TP-101	TP-102	TP-105	TP-106	TP-108	TPSJ-101
JACKS	TJ-120	X	X	X	X	X					X
	TJG-120	X	X	X	X	X					X
	TJS-120	X	X	X	X	X					X
	TJT-120	X	X	X	X	X					X
	TJGT-120	X	X	X	X	X					X
	TJST-120	X	X	X	X	X					X
	TJ-101	X	X	X	X	X					X
	TJ-102	X	X	X	X	X					X
	TJT-102	X	X	X	X	X					X
	TJ-105						X				
	TJT-105						X				
	TJT-125						X				
	TJ-106							X			
	TJ-106PM							X			
	TJ-108								X		
	TJ-108PM								X		
SWITCH COMBINATIONS	TJS-102	X	X	X	X	X					
	TJS-105						X				
	TJS-106							X			
	TJSS-106							X			
	TJS-108								X		
	TJSS-106								X		