

Comm Innovations

"Custom Communications
for the 21st Century"



2024 Catalog



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DALLAS AVIONICS, INC.

(800) 527-2581



86-20-66618436



**James William (Bill) Castine
(1949 - 2023)**



It is with great sadness that we share the loss of James William (Bill) Castine.

Bill was born and raised in Alabama and grew up with a love for food, family, and football. After high school, Bill attended Georgia Tech where he graduated with a degree in Aerospace Engineering. This would lay the foundation for his professional journey in the aviation industry. After college he began his career in Pennsylvania, but soon relocated to California. Once on the west coast, he would become one of the founders of Carter Engineering, a communication and engineering outfit. After working for years out west, he decided to move back east in the mid 90's to work with CommInnovations.

It was his knowledge that helped lay the foundation for what CommInnovations would become. He will have an everlasting impact on our business and our lives. We will always remember him for his kind heart, jovial attitude and strong work ethic. He was an avid sports enthusiast who never missed a Georgia Tech or Alabama football game. Roll Tide Bill!

Introduction

CommInnovations, Inc. has been serving the aviation communication market since 1994 and has introduced a wide array of products which are in use all around the world. Our list of customers include both civilian and military, law enforcement, border patrol, fire fighting, air medical, and many more. With nearly a century of experience designing and manufacturing of communication equipment, you can trust us to meet your communication needs!

Policies and Procedures

Quality Parts, Materials, and Procedures:

All parts, materials, and procedures used by CommInnovations, Inc. are in accordance with military & FAA specifications and standards wherever possible.

- | | |
|---------------|-------------------------------------|
| • Amplifiers | MIL-A-23595 and FAA TSO C58 |
| • Wire | MIL-W-22759 and FAR 25.853 & 25.855 |
| • Solder | QQ-S-571-SN60 |
| • Electronics | MIL-STD-129 and MIL-STD-130 |
| • Inspection | ISO 9000 compliant |

Order Confirmation:

Orders will be confirmed within 1 business day. If confirmation has not been received, please email sales@comm-innovations.com or call 1-800-434-0845.

Payment Terms:

For customers who are approved via our credit application, terms are Net 30. CommInnovations, Inc. reserves the right to add an additional 1.5% per month on unpaid balances after 30 days. Terms for non-approved customers are prepaid.

Accepted Forms of Prepayment:

- Visa, Mastercard, Discover, and American Express (with 3.5% fee)
- Check
- Domestic and international wire transfer

**Please note that orders paid via check or wire transfer will not be shipped until payment has cleared*

Minimum Order Amount:

- \$50.00 for US domestic orders
- \$150.00 for international orders

Warranty:

CommInnovations, Inc. products are warranted to be free from defects caused by faulty material or workmanship for one year from date of purchase. CommInnovations, Inc. responsibility under this warranty is limited to repairing, replacing, or issuing a credit for the products that are returned.

In the event of product issues, customers should:

- 1). Verify that the defect has not been caused by abuse, neglect, improper installation, repair, alteration, or accident.
- 2). Notify CommInnovations, Inc. of the product failure.
- 3). Obtain authorization to return the defective merchandise.

**In no event, shall the manufacturer be liable for collateral or consequential damages of any nature*

Use of this Catalog

CommInnovations, Inc. has structured its operations to permit the fabrication of quality custom communications equipment built to the customers requirements, rather than forcing the customer to select from a limited list of parts and supplies. We've broken down and listed our parts options into charts, which makes it easier to find both the desired internal componets and the part number, as well as identifying the parts needed for replacements.

For example, if you want a CIX 400 series switch and cable with a beige case and large clothing clip, momentary ICS key and lock mike enable for ICS vox slide switch, PTT switch for transmit, microphone low interrupt, high impedance (2.0k Ω), TJT-120 headset jack, and 6 foot coil cable with terminating with an MS3476W10-6P plug, the final part number would be *CIX445VHK6-6W*.

CIX4

4

5V

H

K6

6W

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes

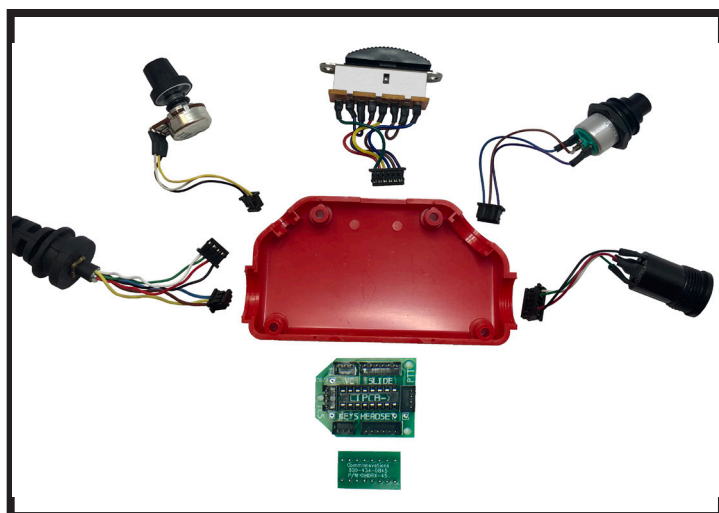
Jack	
code	description
none	TJT-120 (civil helo) (1)
P	TJT-120 (civil helo) (1) w/ "toilet seat" cover

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil

Switch Configuration			
code	slide switch	Xmit PTT	mic int
0	ICS - Xmit (mom) - (mom)	none	none
....			
5V	ICS vox - ICS (lock) - (mom)	3 contact	mic lo
6V		DPDT	mic hi

Volume Control			
code	imp	ground	stereo
none	-	-	-
H	high (civ)	yes (3)	no
HA		no (4)	
HS		yes (3)	
HAS		no (4)	yes

Plug	
code	description
6P	MS3116A10-6P w/ overmold
6W	MS3476W10-6P w/ backshell & overmold
10W/ tbd	MS3476W12-10P w/ backshell & overmold



Charts shortened for example. See page 14 for complete CIX400 series options

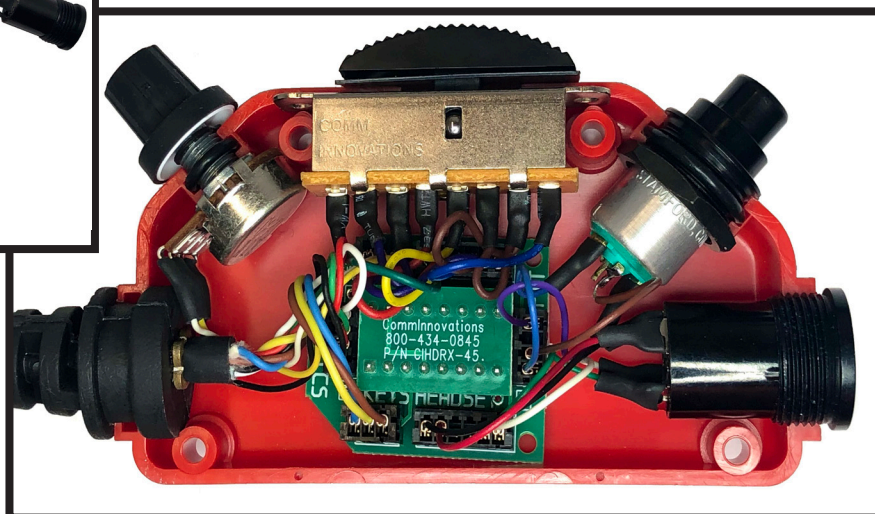


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Case Options



Black



Beige



Blue



Red



Gray



Olive Drab



No Clip (Smooth)
*available in black, red,
and olive drab*



Fixed Clip (Old Style)
available in gray and red



Low Clip (Removable & Rotates)
*available in black, beige, blue,
and olive drab*



Large Clip (Removable & Rotates)
*available in black, beige, blue,
and olive drab*

CIX 200, 300, & 400 Series Switch & Cable

Bose & David Clark *ANR Headset Compatible* Headset Jack Configurations

X: Bose X ANR Headset
Only (6 pin Lemo Jack)



D: David Clark ANR Headset
Only (6 pin Hirose Jack)



TX: Bose X ANR Headset
(6 pin Lemo Jack) & TJT-120
Jack for Civil Helo Headset

or

TD: David Clark ANR Headset
(10 pin Hirose Jack) & TJT-120
Jack for Civil Helo Headset



GX: Bose X ANR Headset
(6 pin Lemo Jack) &
CIJ-055 & CIJ-068 Jacks for
General Aviation Headset

or

GD: David Clark ANR Headset
(10 pin Hirose Jack) &
CIJ-055 & CIJ-068 Jacks for
General Aviation Headset



“TJ” Options for Enhanced Durability

For heavy use & chaotic environments

Be sure to properly disconnect the plug from the jack. If you don't, this can lead to premature wear. The jack can fail when the plug is not extracted from the jack in a straight line, along the axis of the jack. This can happen when the cable, rather than the plug, is grabbed to disconnect the headset from the switch & cable assembly. See picture below:



To prevent this problem, we recommend replacing the TJT-120 jack with the TJ-101 jack, as it is more rugged than the TJT-120. Having the TJ-101 jack on a three inch pigtail ensures self-alignment of the plug & jack when the headset is being disconnected from the switch & cable assembly. The bend/strain relief on the CIJXTJ-6C-4 jack/cable absorbs any forces on the cable. See picture below:

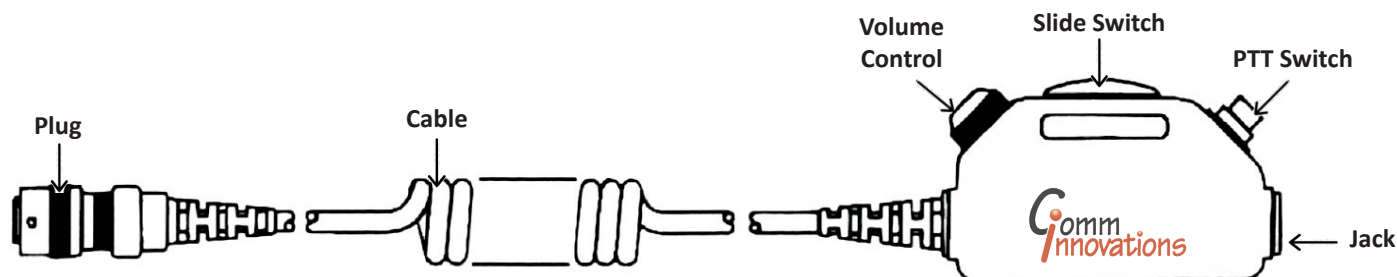


This modification is achieved with our modular design. The CIJXTJ-6C-4 assembly is pictured below:



CIX200 Series Switch & Cable Assemblies

with microphone interrupt (no key function)



CIX2

Case & Clip

Switch Config

Jack

Volume Control

Cable & Length

Plug

Case & Clip			
code	color	profile	rotating
1	black	large	yes
2		low	
C		none	
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	
R	red	large	no
S		none	
D	olive drab	large	no
E		none	

Switch Configuration	
code	description
0	mom - off - mom
1	mom - off - lock
3	PTT

Jack	
code	description
none	TJT-120 (civil helo) (1)
P	TJT-120 (civil helo) (1) w/ "toilet seat" cover
TJ	TJT-120 (civil helo) (1) on 3" pigtail
W	TJT-120 (military) (2)
WP	TJT-120 (military) (2) w/ "toilet seat" cover
TJW	TJT-120 (military) (2) on 3" pigtail
B	TJT-125 (5 contacts) wired mono
BS	TJT-125 (5 contacts) wired stereo
N	10H-18574 AM-626 European NATO
C	CIJ-051 (3 contacts) Commercial Aviation
F	U-61/U (US Navy)
G	CIJ-055 & CIJ-068 (General Aviation [GA])
GB	CIJ-055 & CIJ-068 (Bose A20 w/ GA plugs)
GS	CIJ-051 & CIJ-068 (GA Stereo)

Volume Control			
code	imp	ground	stereo
none	-	-	-
H	high (civ)	yes (3)	no
HA		no (4)	
HS		yes (3)	
HAS		no (4)	yes
L	low (mil)	yes (3)	no
LA		no (4)	
LS		yes (3)	
LAS		no (4)	yes

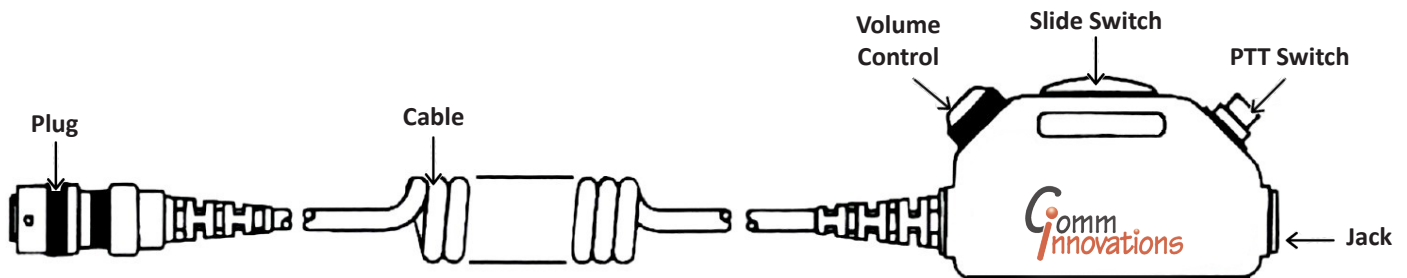
Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
74	TP-120 (civil helo) (1)
74M	TP-120 (military) (2)
74MS	U-174/U (military) (2) MIL-C-9177/2-1
84	U-384/U (5 contacts) wired mono
84S	U-384/U (5 contacts) wired stereo
NP	10H-18575 AM-671 European NATO
NPS	European NATO with shroud
51	CIPC-051 (3 contacts) Commercial Aviation
75	U-75/U (US Navy)
YP	CIPC-055 & CIPC-068 (General Aviation [GA])
YPS	CIPC-051 & CIPC-068 (GA Stereo)
4L	lugs (MS25036-102)
4X	stripped & tinned leads
6SU	no termination

Notes:
 (1) Mike hi to pin 1
 (2) Mike lo to pin 3
 (3) Volume off ~ Full CCW
 (4) Volume reduced ~ Full CCW
 (5) Special coil cable for EMS applications; 26" straight from coil to switch case

CIX200 Series Switch & Cable Assemblies

ANR Headset Compatible with microphone interrupt (no key function)



CIX2

Case & Clip Switch Config Jack Volume Control Cable & Length — Plug

Case & Clip
see page 10

Switch Configuration
see page 10

Jack			
code	std jack	ANR socket	wired
X	none	Lemo 6 (1)	mono
XS			stereo
D	none	Hirose 10 (2)	mono
DS			stereo
TX	TJ-120 (civil helo)	Lemo 6 (1)	mono
TD		Hirose 10 (2)	
GX	General Aviation	Lemo 6 (1)	mono
GXS			stereo
GD		Hirose 10 (2)	mono
GDS			stereo

Volume Control
see page 10

Cable & Length
see page 10

Plug		
code	type	wired
PX	Lemo 6 pin (1)	mono
PXS		stereo
PD	Hirose 10 pin (2)	mono
PDS		stereo
PF8	Fischer 8 pin (3)	mono
PF8S		stereo
84R	U-384/U (4)	mono
108	TP-108 (3)	tbd
10W/tbd	MS3476W12-10P	tbd

Notes:			
(1) Bose A20 & Lightspeed	(4) U-384 wiring:		
(2) David Clark	Power pin 1		
(3) Customer Specified wiring	Mike Hi pin 2	Phone Hi pin 4	
	Mike Lo pin 3	Phone Lo/ ground pin 5	

CIXAT200 Series Switch & Cable Assemblies

with microphone interrupt (no key function) & low to high impedance adapter

CIXAT2

Case & Clip Switch Config Volume Control Cable & Length — Plug

Case & Clip
see page 10

Switch Configuration
see page 10

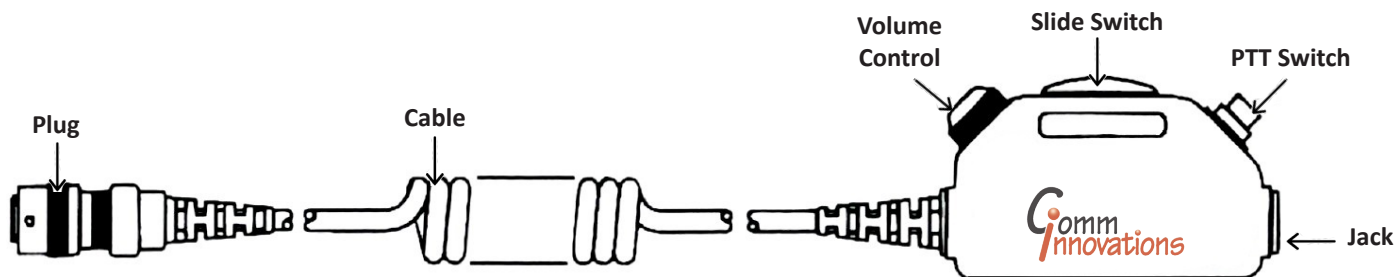
Volume Control	
code	ground
none	-
H	no
HA	yes

Cable & Length
see page 10

Plug
see page 10

CIX300 Series Switch & Cable Assemblies

with single key function



CIX3

Case & Clip

Switch Config

Jack

Volume Control

Cable & Length —

Plug

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	
R	red	large	no
S		none	
D	olive	large	no
E		none	

Jack	
code	description
none	TJT-120 (civil helo) (1)
P	TJT-120 (civil helo) (1) w/ "toilet seat" cover
TJ	TJT-101 (civil helo) (1) on 3" pigtail
W	TJT-120 (military) (2)
WP	TJT-120 (military) (2) w/ "toilet seat" cover
TJW	TJT-101 (military) (2) on 3" pigtail
B	TJT-125 (5 contacts) wired mono
BS	TJT-125 (5 contacts) wired stereo
N	10H-18574 AM-626 European NATO
C	CIJ-051 (3 contacts) Commercial Aviation
F	U-61/U (US Navy)
G	CIJ-055 & CIJ-068 (General Aviation [GA])
GB	CIJ-055 & CIJ-068 (Bose A20 w/ GA plugs)
GS	CIJ-051 & CIJ-068 (GA Stereo)

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Switch Configuration		
code	description	mike int
0	ICS mom-mom	none
1		mike hi
2	ICS mom-lock	none
3		mike hi
0R	Xmit mom-mom	none
1R		mike hi
2R	Xmit mom-lock	none
3R		mike hi
4	ICS mom-lock (vox)	mike hi
6	ICS PTT (3 contact)	none
7		mike lo
8	ICS PTT (DPDT)	mike hi
6R	Xmit PTT (3 contact)	none
7R		mike lo
8R	Xmit PTT (DPDT)	mike hi

Volume Control			
code	imp	ground	stereo
none	-	-	-
H	high (civ)	yes (3)	no
HA		no (4)	
HS		yes (3)	
HAS		no (4)	yes
L	low (mil)	yes (3)	no
LA		no (4)	
LS		yes (3)	
LAS		no (4)	yes

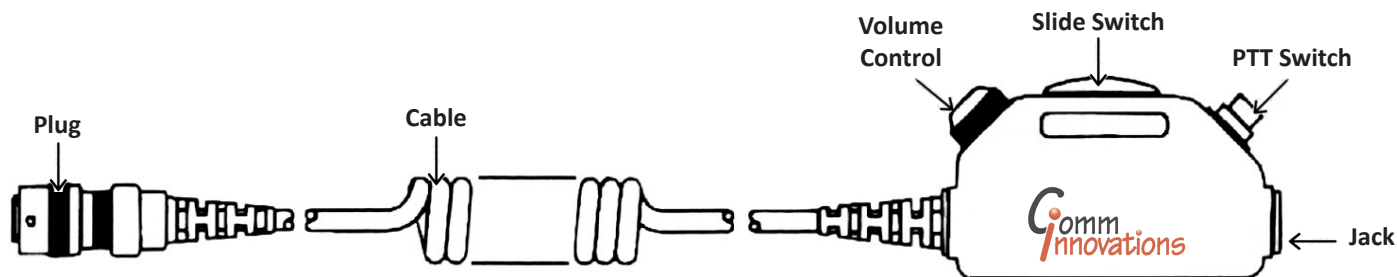
Plug	
code	description
74K	TP-120 (wired for key)
6P	MS3116A10-6P w/ overmold
6W	MS3476W10-6P w/ backshell & overmold
10W/TBD	MS3476W12-10P w/ backshell & overmold (6)
77	U-77/U (ten contacts) MIL-C-10544
YK	CIPC-055 & CIPC-068 (General Aviation [GA])
YKS	CIPC-051 & CIPC-068 (GA stereo)
5L	lugs (MS25036-102)
5X	stripped & tinned leads
6SU	no termination

Notes:

- (1) Mike hi to pin 1
- (2) Mike lo to pin 1
- (3) Volume off - Full CCW
- (4) Volume reduced - Full CCW
- (5) Special coil cable for EMS applications 26" straight from coil to switch case
- (6) Customer specified wiring to be determined

CIX300 Series Switch & Cable Assemblies

ANR Headset Compatible with single key function



CIX3

Case & Clip	Switch Config	Volume Control	Cable & Length	Plug

Case & Clip
see page 12

Switch Configuration
see page 12

Jack			
code	std jack	ANR socket	wired
X	none	Lemo 6 (1)	mono
XS			stereo
D	none	Hirose 10 (2)	mono
DS			stereo
TX	TJT-120 (civil helo)	Lemo 6 (1)	mono
TD		Hirose 10 (2)	
GX	general aviation	Lemo 6 (1)	mono
GXS			stereo
GD		Hirose 10 (2)	mono
GDS			stereo

Volume Control
see page 12

Cable & Length
see page 12

Plug		
code	type	wired
PD	Hirose 10 pin (2)	mono
PDS		stereo
PF8	Fischer 8 pin (3)	mono
PF8S		stereo
84R	U-384/U (4)	mono
108	TP-108 (3)	tbd
10W /tbd	MS3476W12-10P with backshell (3)	tbd

Notes			
(1) Bose A20 & Lightspeed	(2) David Clark		
(3) Customer Specified Wiring	(4) U-384 wiring:		
	Power pin 1		
	Mike Hi pin 2	Phone Hi pin 4	
	Mike Lo pin 3	Phone Lo/ ground pin 5	

CIXAT300 Series Switch & Cable Assemblies

with single key function & low to high impedance adapter

CIXAT3

Case & Clip	Switch Config	Volume Control	Cable & Length	Plug

Case & Clip
see page 12

Switch Configuration
see page 12

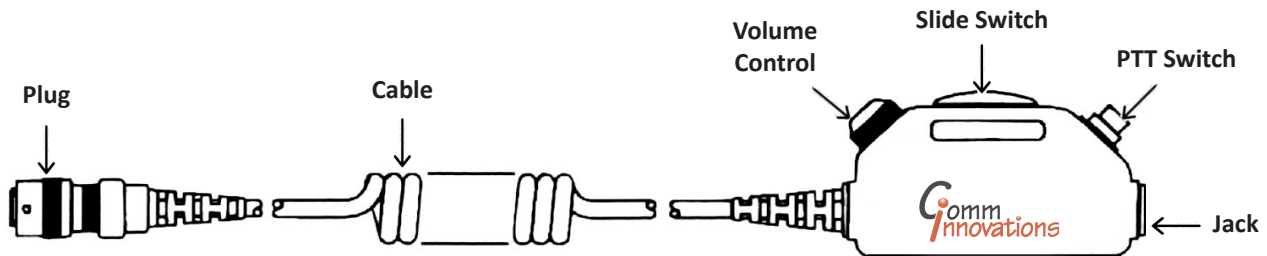
Volume Control	
code	ground
none	-
H	no
HA	yes

Cable & Length
see page 12

Case & Clip
see page 12

CIX400 Series Switch & Cable Assemblies

with ICS & transmit key functions



CIX4

Case & Clip

Switch Config

Jack

Volume Control

Cable & Length

Plug

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Switch Configuration			
code	slide switch	Xmit PTT	mic int
0	ICS - Xmit (mom) - (mom)	none	none
1			mic hi
2	ICS - Xmit (lock) - (mom)	none	none
3V	ICS vox - Xmit (lock) - (mom)	none	mic hi
4	ICS (mom-lock)	3 contact	none
5			mic lo
6		DPDT	mic hi
4M	ICS (mom-mom)	3 contact	none
5M			mic lo
6M		DPDT	mic hi
5V	ICS vox - ICS (lock) - (mom)	3 contact	mic lo
6V			mic hi

Jack	
code	description
none	TJT-120 (civil helo) (1)
P	TJT-120 (civil helo) (1) w/ "toilet seat" cover
TJ	TJT-120 (civil helo) (1) on 3" pigtail
W	TJT-120 (military) (2)
WP	TJT-120 (military) (2) w/ "toilet seat" cover
TJW	TJT-120 (military) (2) on 3" pigtail
B	TJT-125 (5 contacts) wired mono
BS	TJT-125 (5 contacts) wired stereo
N	10H-18574 AM-626 European NATO
C	CIJ-051 (3 contacts) Comm Av
F	U-61/U (US Navy)
G	CIJ-055 & CIJ-068 (General Aviation)
GB	CIJ-055 & CIJ-068 (Bose A20 w/ GA plugs)
GS	CIJ-051 & CIJ-068 (GA Stereo)

Volume Control			
code	imp	ground	stereo
none	-	-	-
H	high (civ)	yes (3)	no
HA		no (4)	
HS		yes (3)	
HAS		no (4)	yes
L	low (mil)	yes (3)	no
LA		no (4)	
LS		yes (3)	
LAS		no (4)	yes

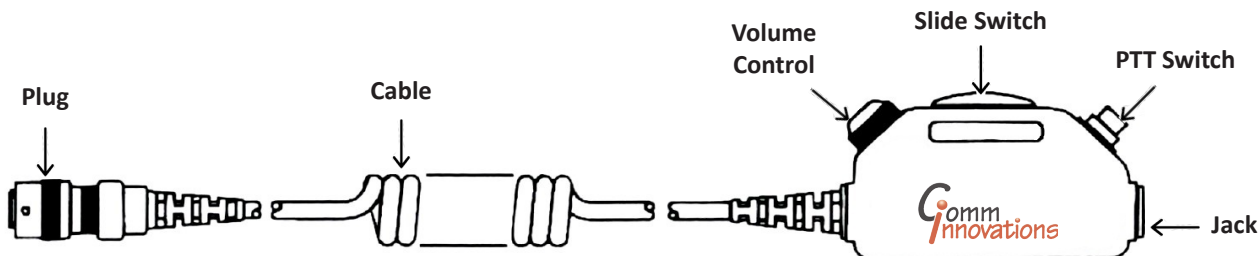
Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
6P	MS3116A10-6P w/ overmold
6W	MS3476W10-6P w/ backshell & overmold
10W/tbd	MS3476W12-10P w/ backshell & overmold
77	U-77/U (ten contacts) MIL-C-10544
YK	CIPC-055 & CIPC-068 (General Aviation)
YKS	CIPC-051 & CIPC-068 (GA Stereo)
6L	lugs (MS25036-102)
6X	stripped & tinned leads
2P3	no termination

Notes:

- (1) Mic hi to pin 1
- (2) Mic lo to pin 1
- (3) Volume off - Full CCW
- (4) Volume reduced - Full CCW
- (5) 20" Straight cable between coils and case

ANR Headset Compatible with ICS & transmit key functions



CIX4

Case & Clip

Switch Config

Jack

Volume Control

Cable & Length

Plug

Case & Clip

see page 14

Capital

Switch Configuration

see page 14

Jack

code	std jack	ANR socket	wired
X	none	Lemo 6 (1)	mono
XS			stereo
D	none	Hirose 10 (2)	mono
DS			stereo
TX	TJ-120 (civil helo)	Lemo 6 (1)	mono
TD		Hirose 10 (2)	
GX	general aviation	Lemo 6 (1)	mono
GXS			stereo
GD		Hirose 10 (2)	mono
GDS			stereo

Volume Control

See page 1

Cable & Length

See page 1

Plug

code	type	wired
PD	Hirose 10 pin (2)	mono
PDS		stereo
PF8	Fischer 8 pin (3)	mono
PF8S		stereo
84R	U-384/U (4)	mono
108	TP-108 (3)	TBD
10W/	MS3476W12-10P	TBD

Notes

(1) Bose A20 & Lightspeed (2) David Clark

(3) Customer Specified Wiring (4) U-384 wiring:

Power pin 1 Mic Hi pin 2

Mic Lo pin 3 **Phone Hi pin 4**

Phone Lo/ ground pin 5

with single key function & low to high impedance adapter

Case & Clip

Switch Config

Volume Control

Cable & Length

Plug

CIXAT4

Case & Clip

see page 14

Switch Configuration

see page 14

Volume Control

code	ground
none	-
H	no
HA	yes

Cable & Length

see page 14

Case & Clip

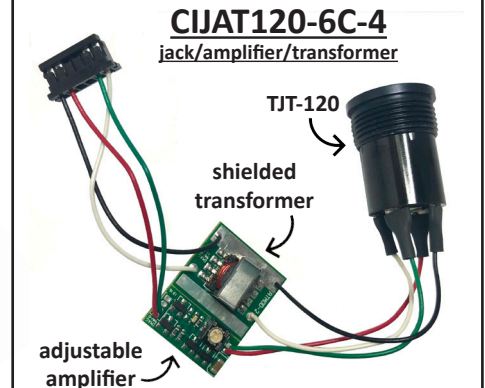
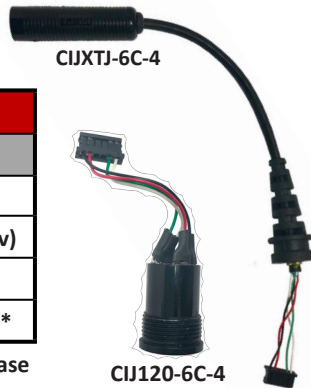
see page 14

CIX200, 300, & 400 Series Spare Parts

Jack Assemblies

CIJ — 6C — 4

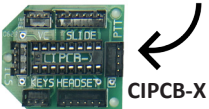
Jack			
code	description	code	description
120	TJT-120 (civil helo)	N	10H-18574 AM-626
120W	TJT-120 (military)	51	CIJ-051 (Commerical Av)
125	TJT-125 (5 contacts) mono	X61	U-61/U (US Navy)*
XTJ	TJT-120 (civil helo) (1)*	XGA	CIJ-055 & CIJ-068 (GA)*
XTJW	TJT-120 (military) (2)*	* jack is mounted exterior to case	



Case Assemblies

CICSX —

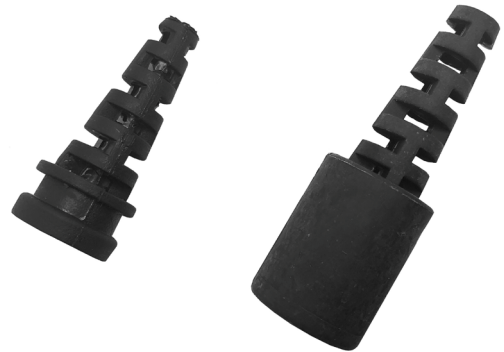
code	w/ interconnect module
1	no
2	yes



Includes front and rear case (with or without clothing clip), 4 screws, plugs for slide switch, PTT, and volume control. Tape is included with interconnect module.

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2	beige	none	-
4		large	
F	blue	low	yes
7		large	
8	gray	low	no
9		large	
A	red	none	-
R		large	
S	olive drab	none	-
D		large	
E	olive drab	none	-
		large	

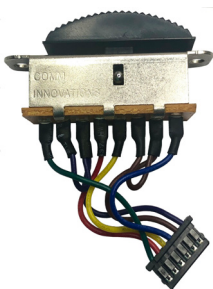
Strain Reliefs and Overmolds



Part no.	Connector	Cable OD
CISR6P-195	MS3116A10-6P or MS3476W10-6P	.195"
CISR6P-241		.241"
CISR10PA-195	MS3476W12-10P or MS3476L12-10P	.195"
CISR10PA-241		.241"
CISRX-180	CIX100 Case	.180"
CISRX-195		.195"
CISRX-241		.241"

Slide Switches

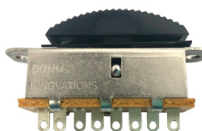
CIX — 6C —



code	type
MM	mom-mom
ML	mom-lock

code	color
none	Black
B	Beige
U	Blue
R	Gray
E	Red
D	Olive

CIX —



code	type
MM	mom-mom
ML	mom-lock

code	color
none	Black
B	Beige
U	Blue
R	Gray
E	Red
D	Olive

code	Pre-Bussing
1	none
2	mike int only or ICS-ICS w/o int
3	ICS-ICS w/ int
4	ICS-VOX w/ int or OCS Zmit w/ int
5	ICS-Xmit w/o int

CIX200, 300, & 400 Series Spare Parts

Push-to-Talk Switches



CIPTT-4C-3



CIPX-304GB1B



CIPX-307GB1B



CIPTT-4C

Volume Controls

part no.	type	imp
CIVH-3C	mono grounded	high
CIVH-3C-2	mono ungrounded	
CIVL-3C	mono grounded	low
CIVL-3C-2	mono ungrounded	
CIVHD-3C	stereo grounded	high
CIVHD-3C-2	stereo ungrounded	
CIVLD-3C	stereo grounded	low
CIVLD-3C-2	stereo ungrounded	



CIKNB-303TPN



CIVC-D

Cable Assemblies



Cable & Length

CI

—

Plug

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
28X-74	TP-120 (civil helo) (1)
28X-74M	TP-120 (military) (2)
28X-74K	TP-120 (wired for key)
24X-6P	MS3116A10-6P
24X-6W	MS3476W10-6P w/ backshell & overmold
24X-10W/tbd	MS3476W12-10P w/ backshell & overmold
24X-77	MIL-C-10544
28X-84	U-384/U (mono)
28X-84S	U-384/U (stereo)
28X-NP	10H-18575 AM-671
28X-NPS	NATO w/ shroud
28X-YP	GA ~ no key

CIX200, 300, & 400 Assembly Spare Parts

Cable Assemblies



Cable & Length
CI - 248-4C -

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
74	TP-120 ~ civil helo (1)
74M	TP-120 ~ military (2)
84	U-384/U (5 contacts ~ wired mono)
84S	U-384/U (5 contacts ~ wired stereo)
NP	10H-18575 AM-671 European NATO
NPS	European NATO w/ shroud
YO	CIPC-055& CIPC-068 (General Aviation)



Cable & Length
CI - 248-4C -

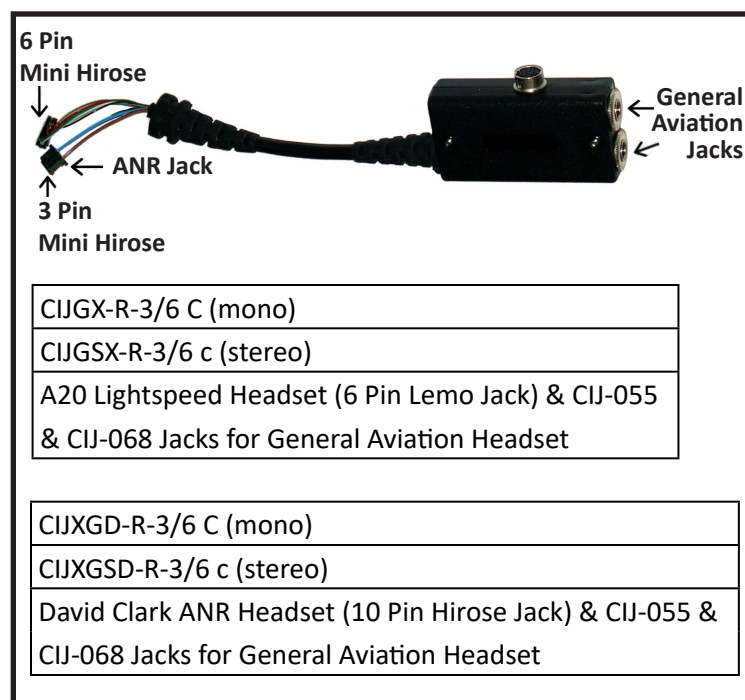
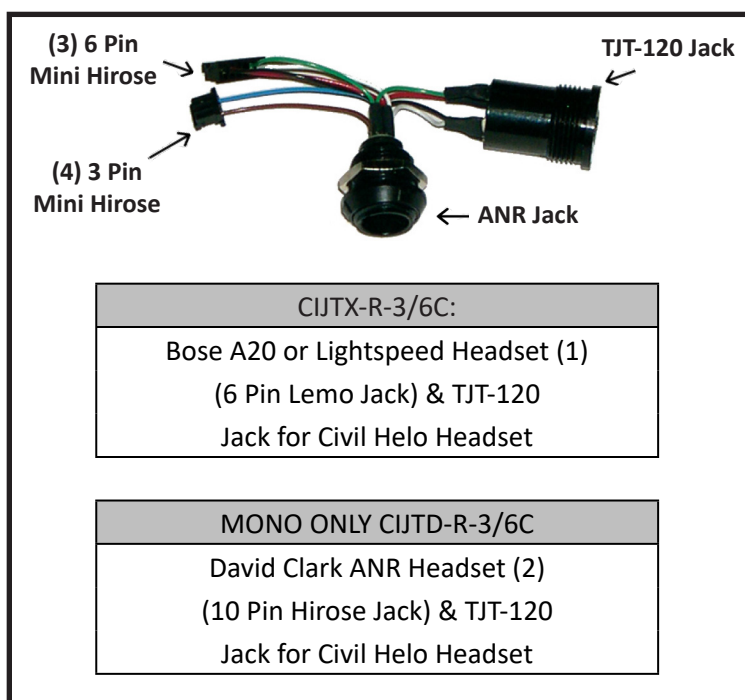
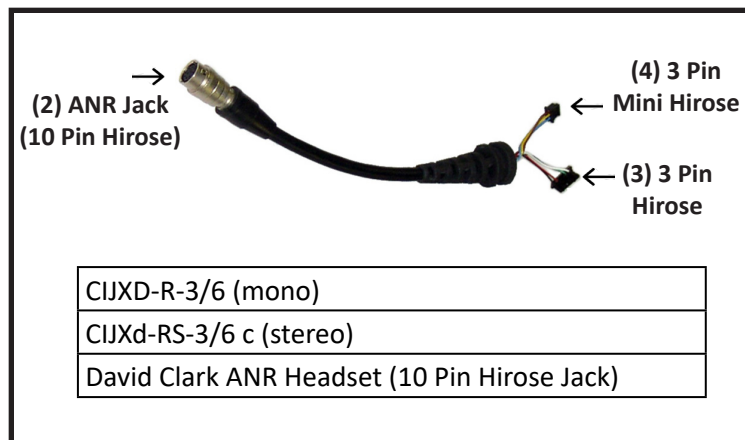
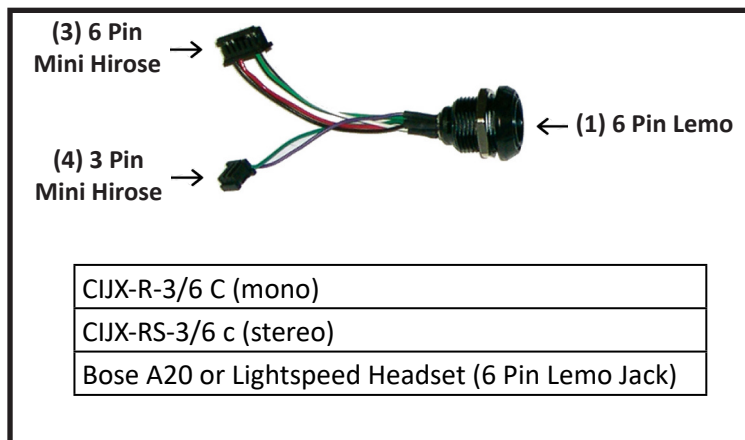
* EMI Backshell Included

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
74K	TP-120 (wired for key)
6P	MS3116A10-6P w/ overmold
6W	MS3476W10-6P w/ backshell & overmold
10W /tbd	MS3476W12-10P w/ backshell & overmold
77	U-77/U (ten contacts) MIL-C-10544
YK	CIPC-055 & CIPC-068 (General Aviation)
YKS	CIPC-051 & CIPC-068 (GA Stereo)

CIX200, 300, & 400 Series Spare Parts

ANR Headset Compatible



Connector Wiring

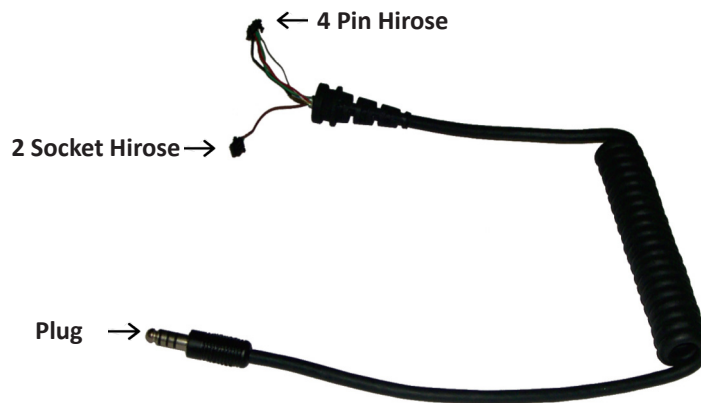
(1) Lemo (Bose A20 or Lightspeed)
Power (blue) to pin 1
Phones Lo & Ground (black) to pin 2
LH Phones (white) to pin 3*
RH Phones (yellow) to pin 4*
Mike Hi (red) to pin 5
Mike Lo (green) to pin 6

(3) 6 pin to Mini Hirose
Phones Lo & Ground (Black) to pin 6
Phones (white) to pin 1 (if mono, n/c if stereo)
Mike Hi (red) to pin 5
Mike Lo (green) to pin 2

(2) Hirose (David Clark)
Power (blue) to pin 1
Phones Lo & Ground (black) to pin 6 & 7
LH Phones (white) to pin 2*
RH Phones (yellow) to pin 3*
Mike Hi (red) to pin 5
Mike Lo (green) to pin 6

(4) 3 pin to Mini Hirose
Phones pin 1
LH Phones to pin 2 (if stereo, n/c if mono)
RH Phones to pin 2 (if stereo, n/c if mono)

ANR Headset Compatible Cable Spares



Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

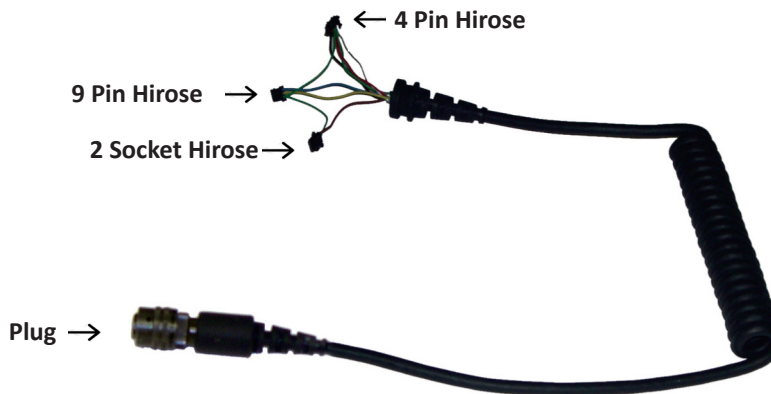
Cable & Length Plug

CI - 24X-2/4C -

* specially coil cable for
MS applications

* especially wired for ANR

Plug		
code	type	wired
PX	Lemo 6 pin (1)	mono
PXS	Lemo 6 pin (1)	stereo
PD	Hirose 10 pin (2)	mono
PDS	Hirose 10 pin (2)	stereo
PF8	Fischer 8 pin (3)	mono
PF8S	Fischer 8 pin (3)	stereo
84R	U-384/U (4)	mono
108	TP-108 (3)	tbd
10W/tbd	MS3476W 12-10P	tbd



Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (5)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Cable & Length Plug

CI - 24X-2/3/4C -

* specially coil cable for
EMS applications

Plug		
code	type	wired
PD	Hirose 10 pin (2)	mono
PDS	Hirose 10 pin (2)	stereo
10W/tbd	MS3476W 12-10P	tbd
PF8	Fischer 8 pin (3)	mono
PF8S	Fischer 8 pin (3)	stereo
84R	U-384/U (4)	mono
108	TP-108 (3)	tbd

Common ANR Wiring Options for MS3476W12-10P Connectors

10W/9

Mike Hi	Red to A
Mike Lo	Green to C
Phones Hi	White to E
Phones Lo	Black to F
ICS Key	Yellow to B
Xmit Key	Blue to D
Common/Key Return	All Shields to H
Power	Brown to G

10W/10

Mike Hi	Red to A
Mike Lo/Key Return	Green & Brown to C
Phones Hi	White to E
Phones Lo	Black to F
ICS Key	Yellow to D
Xmit Key	not used
Common	All Shields to H
Power	Blue to G

10W/12*

Mike Hi	Red to A
Mike Lo/Key Return	Green to B
Phones Hi	White to C
Phones Lo	Gray to D
ICS Key	Yellow to E
Xmit Key	Blue to F
Common	Black & All Shields to G
Power	Brown to J

10W/13

Mike Hi	Red to A
Mike Lo/Key Return	Green to B
Phones Hi	White to C
ICS Key	Yellow to E
Xmit Key	Blue to F
Common	Black & All Shields to G
Power	Brown to J

10W/14*

Mike Hi	Red to D
Mike Lo/Key Return	Green to E
Ground	Mike Shield to F
Phones Hi	White to A
Phones Lo	Black to B
ICS Key	Yellow to C
Key Return	Brown to G & H
Power	Blue to J
Power Return	Overall Shield to K

10W/18*

Mike Hi	Red to D
Mike Lo/Key Return	Green to E
Ground	Mike Shield to F
Phones Hi	White to A
Phones Lo	Black to B
ICS Key	Yellow to C
Key Return	Brown to G & H
Power	Blue to J
Power Return	Overall Shield to K

10W/19*

Mike Hi	Red to F
Mike Lo/Key Return	Green to G
Phones Hi	White to A
Common Ground	Shields & Black to B
ICS Key	Yellow to D
Xmit Key	Blue to E
Power	Orange to K

10W/21*

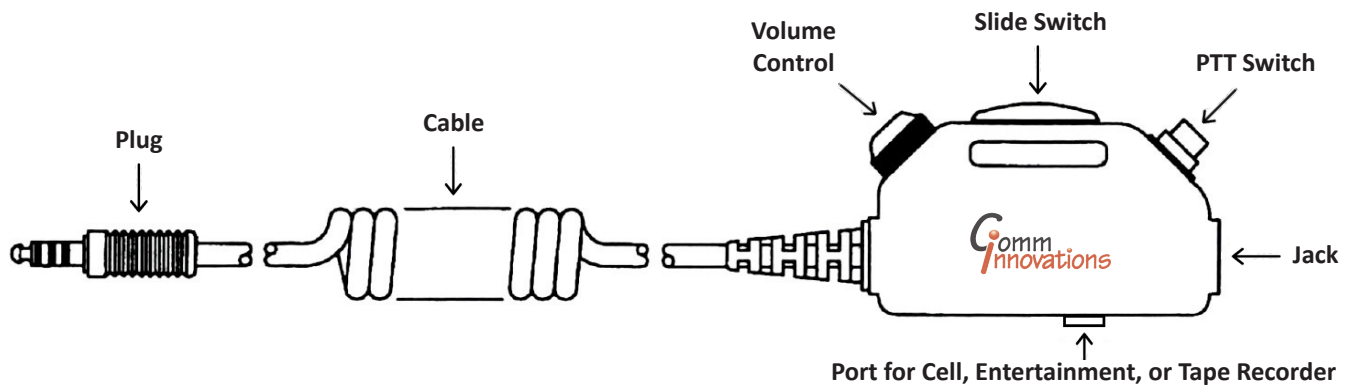
Mike Hi	Red to A
Mike Lo	Green to B
Phones Hi	White to C
Phones Lo	Black to D
ICS Key	Yellow to E
Xmit Key	Blue to F
Common/Key Return	Brown & Shield to G
28 VDC	Orange to H
Power Ground	Gray to J

*** Straight cable only**

CIX5C Series Switch & Cable Assemblies

standard civilian headsets with microphone interrupt (no key functions)

(Includes Cell Phone Port.)



CIX5C

Case & Clip	Switch Config	Jack	Volume Control	Cable & Length	Plug

Accessory Cables	
Code	Included
C	cell phone

Switch Configuration				
code	Slide Switch			PTT switch
	back	center	forward	
0	mom (ICS)	cell (1)	mom (ICS)	none
1			lock (ICS)	
2	no slide switch - cell always on			ICS
3	mom (ICS)	off	lock (cell on)	none
4	lock (ICS)			

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (General Aviation)
TJ	TJ-101 (civil helo)

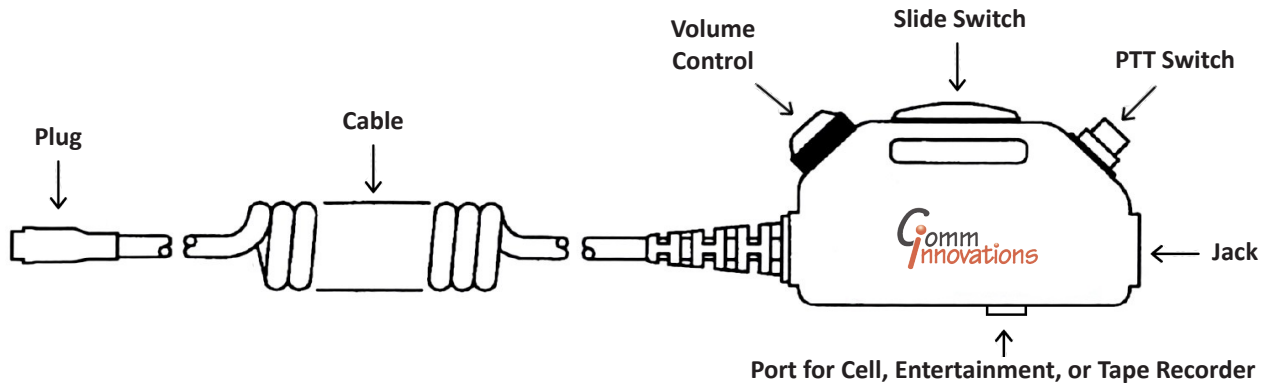
Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

Plug	
code	description
4X	no plug
4L	Lugs
74	TP-120 (civil helo)
YP	CIPC-055B & CIPC-068 (General Aviation)

Notes
 (1) Cell phone always on
 (2) Special cable for EMS, 20" straight from coil to case

CIX5C Series Switch & Cable Assemblies

civilian aircraft powered ANR headsets with microphone interrupt (no key functions)
(Includes Cell Phone Port.)



CIX5C

Case & Clip	Switch Config	Jack	Volume Control	If Stereo...	Cable & Length	Plug

Accessory Cables
see page 22

Cable & Length
see page 22

Switch Configuration
see page 22

Plug	
code	description
PX	Bose X (Lemo 6)
PD	David Clark (Hirose 10)
74R	TP-120 (civil helo) (1)
84R	U-384/U (5 contacts) (1)
GR	general aviation (1)
108	TP--108 (biaxially shielded)

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

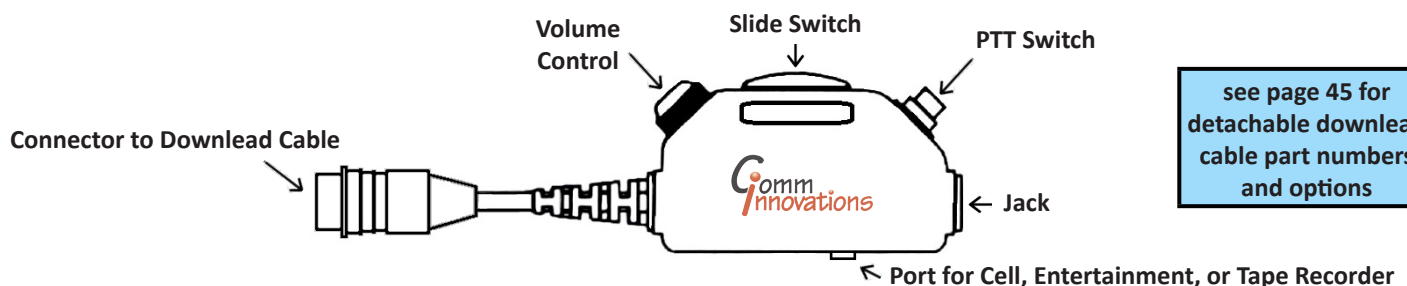
Cable & Length
see page 22

If Stereo ICS & 2 Jack Config	
code	
S	

Jack		
code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Bose X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Bose X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Notes
(1) Wired for ANR
(2) Cell phone audio amplification, power lost when detached from aircraft.

CIX5C Series Switch Assemblies with detachable download cables (2) (Includes Cell Phone Port.)



see page 45 for detachable download cable part numbers and options

CIX5C

Case & Clip	Switch Config	Jack	Volume Control	DJ

Accessory Cables
see page 22

Cable & Length
see page 22

Switch Configuration
see page 22

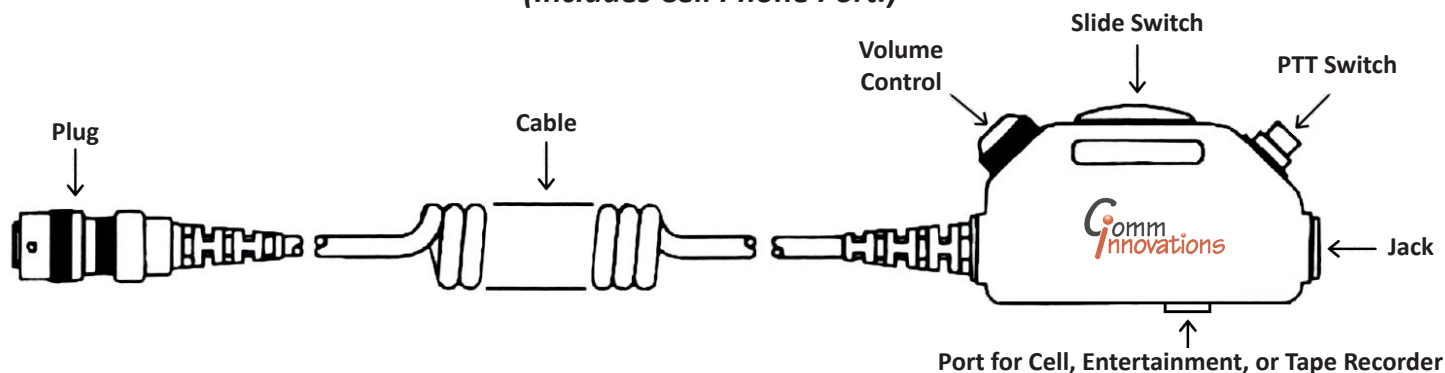
Jack
see page 22

Volume Control
see page 22

CIX6C Series Switch & Cable Assemblies

standard civilian headsets with single key function

(Includes Cell Phone Port.)



CIX6C

Case & Clip	Switch Config	Jack	Volume Control	Cable & Length	Plug

Accessory Cables	
Code	Included
C	cell phone

Switch Configuration					
code	Slide Switch			PTT switch	mike interrupt
	back	center	forward		
0	mom (ICS)	cell (1)	mom (ICS)	none	none
1			lock (ICS)		
2	no slide switch, cell always on			ICS	none
2Y					mike hi
3	mom (ICS)	off	lock (cell on)	none	mike hi
4	lock (ICS)				
5	lock (vox)				
6	mom (Xmit)	cell (1)	mom (Xmit)	none	none
7		off	lock (cell on)		mike hi
8	no slide switch, cell always on			Xmit	none
8Y					mike hi

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

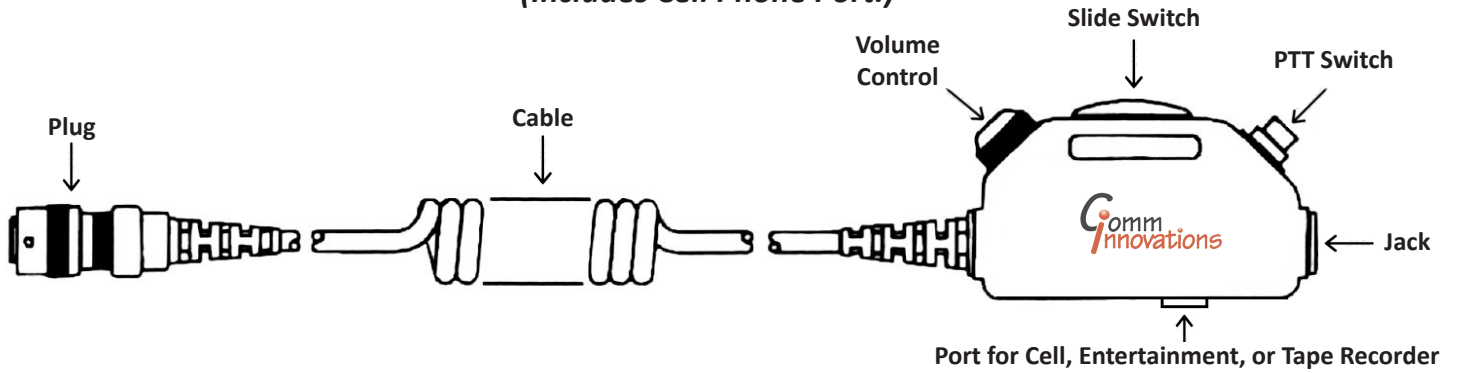
Plug	
code	description
5L	lugs
5X	no plug
74K	U-174/U (wired for key)
6P	MS3116E10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
6WE	MS3476W10-6P & EMI backshell
10W/tbd	MS3476W12-10P (10 contact plugs)
10WE/tbd	MS3476W12-10P & EMI backshell
77	U-77/U (MIL-C-10544)
YK	PJ-055B & PJ-068 (GA)

(1) Cell phone always on
(2) Special cable for EMS, 20" straight from coil to case

CIX6C Series Switch & Cable Assemblies

civilian aircraft powered ANR headsets with single key functions

(Includes Cell Phone Port.)



CIX6C

Case & Clip	Switch Config	Jack	Volume Control	If Stereo...	Cable & Length	Plug

Accessory Cable

See page 24

Case & Clip

See page 24

Switch Configuration

See page 24

Jack		
code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Bose X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Bose X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Volume Control

code	imp	ground
none	-	-
H	hi	yes
HA		no

If Stereo ICS & 2 Jack

code
S

Cable & Length

See page 24

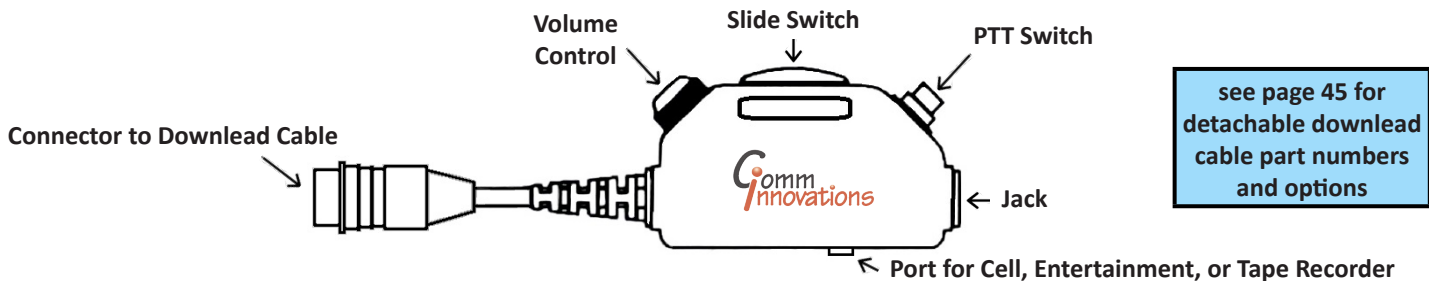
Plug

code	description
10W (1)	MS3476W12-10P (10 Contact plugs)
108	TP-108 (biaxially shielded)

- (1) Complete listing of MS3476W12-10P wiring options available upon request. See page 21 for partial listings.
- (2) Cell phone audio amplification power lost when detached from aircraft.

CIX6C Series Switch Assemblies

with detachable download cables (2) (Includes Cell Phone Port.)



see page 45 for detachable download cable part numbers and options

CIX6C

Case & Clip	Switch Config	Jack	Volume Control	DJ

Accessory Cable

See page 24

Case & Clip

See page 24

Switch Configuration

See page 24

Jack

See page 24 or above

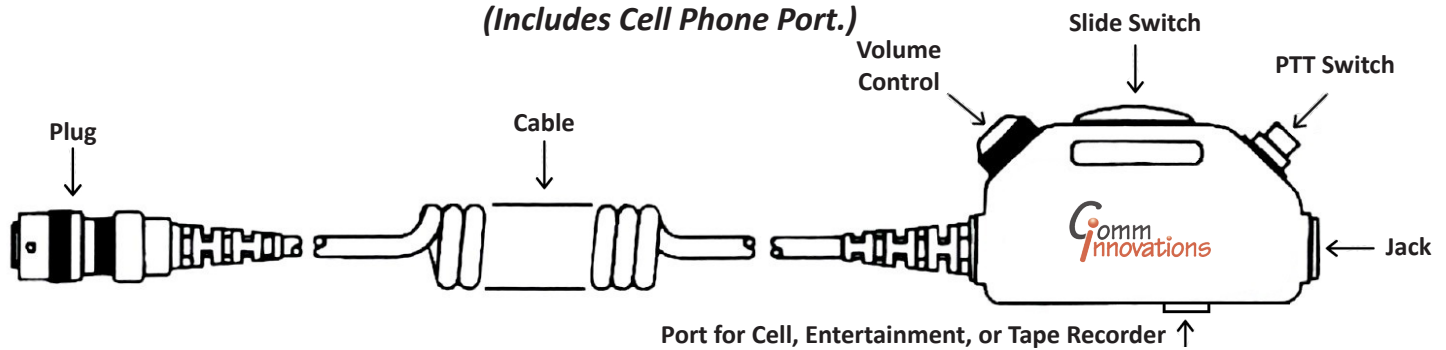
Volume Control

See page 24

CIX7C Series Switch & Cable Assemblies

standard civilian headsets with ICS & transmit key function

(Includes Cell Phone Port.)



CIX7C

Case & Clip

Switch Config

Jack

Volume Control

Cable & Length

Plug

Accessory Cables

Code	Included
C	cell phone

Switch Configuration

code	Slide Switch			PTT switch	mike interrupt
	back	center	forward		
0	mom (ICS)	cell (1)	mom (ICS)	Xmit	none
1			lock (ICS)		
2		off	lock (cell on)		
3	lock (ICS)	off	lock (cell on)	Xmit	none
2Y	mom (ICS)				mike hi
3Y	lock (ICS)				
3V	lock (vox)				

Cable & Length

code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip

code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Jack

code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control

code	imp	ground
none	-	-
H	hi	yes
HA		no

Plug

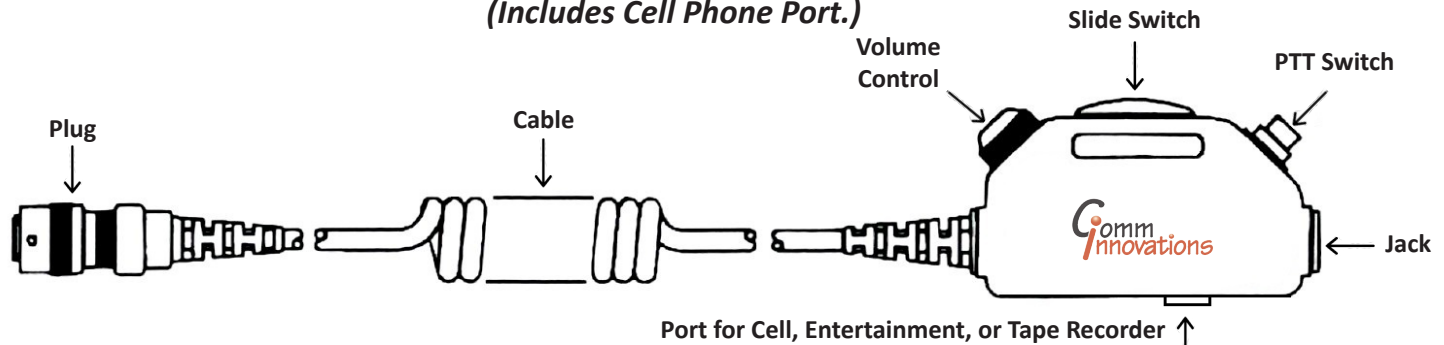
code	description
6X	no lugs
6L	lugs
6P	MS3116A10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
10W/tbd	MS3476W12-10P (10 contact lugs)
YK	CIPC-055 & CIPC-068 (GA)

(1) Cell phone always on
(2) Special cable for EMS, 20" straight from coil to case

CIX7C Series Switch & Cable Assemblies

civilian aircraft powered ANR headset with ICS & transmit ket function

(Includes Cell Phone Port.)



CIX7C

Case & Clip

Switch Config

Jack

Volume Control

If Stereo...

Cable & Length

Plug

Accessory Cable

See page 26

Case & Clip

See page 26

Switch Configuration

See page 26

Jack

code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Bose X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Bose X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Volume Control

code	imp	ground
none	-	-
H	hi	yes
HA		no

If Stereo ICS & 2 Jack

code
S

Cable & Length

See page 26

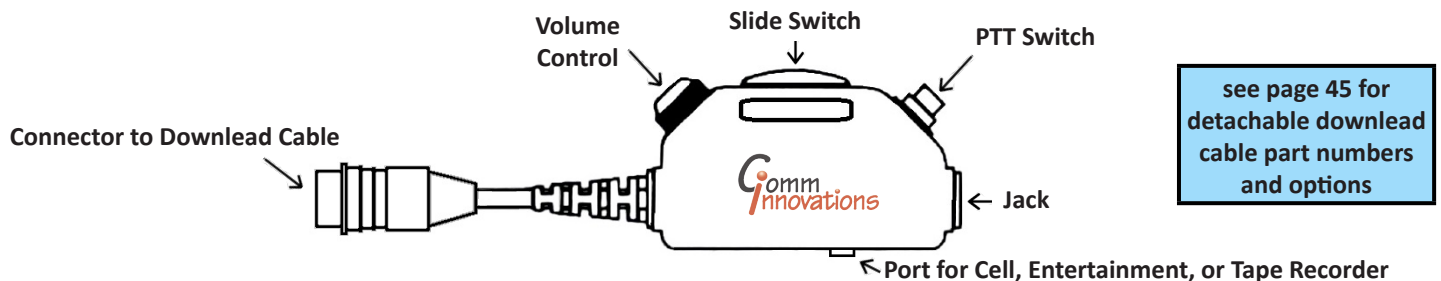
Plug

code	description
10W (1)	MS3476W12-10P (10 Contact plugs)
108	TP-108 (biaxially shielded)

- (1) Complete listing of MS3476W12-10P wiring options available upon request. See page 21 for partial listings.
- (2) Cell phone audio amplification power lost when detached from aircraft.

CIX7C Series Switch & Cable Assemblies

with detachable download cables (2) (Includes Cell Phone Port.)



see page 45 for detachable download cable part numbers and options

CIX7C

Case & Clip

Switch Config

Jack

Volume Control

DJ

Accessory Cable

See page 26

Case & Clip

See page 26

Switch Configuration

See page 26

Jack

See page 26 or above

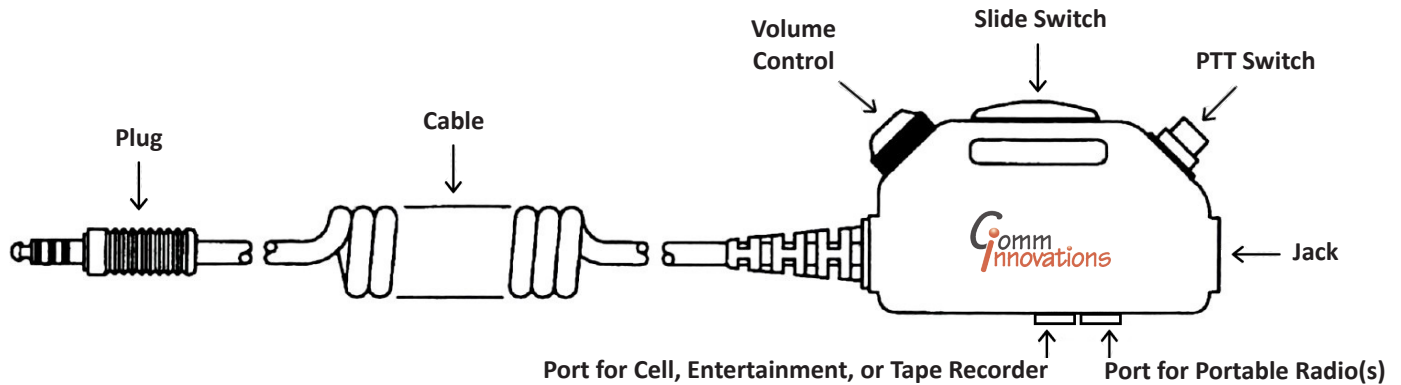
Volume Control

See page 26

CIX5CP Series Switch & Cable Assemblies

standard civilian headsets with microphone interrupt (no key functions)

(Includes Cell Phone Port & Port For Portable Radio.)



CIX5CP

Case & Clip	Switch Config	Jack	Radio..	Volume Control	Cable & Length	Plug

Accessory Cables	
Code	Included
C	cell phone
P	portable radio

Switch Configuration				
code	Slide Switch			PTT switch
	back	center	forward	
0	mom (ICS)	cell (1)	mom (ICS)	PR
1	lock (ICS)		mom (ICS)	
2	mom (ICS)	cell (1)	lock (ICS)	
3			lock (cell on)	
4		off	lock (cell on)	PR
5	lock (ICS)	off	lock (cell on)	

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	
R	red	large	no
S		none	
D	olive	large	no
E		none	

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Radio to ICS Feed Thru	
code	description
none	yes
F	no

Plug	
code	description
4X	no plug
4L	Lugs
74	TP-120 (civil helo)
YP	CIPC-055B & CIPC-068 (General Aviation)

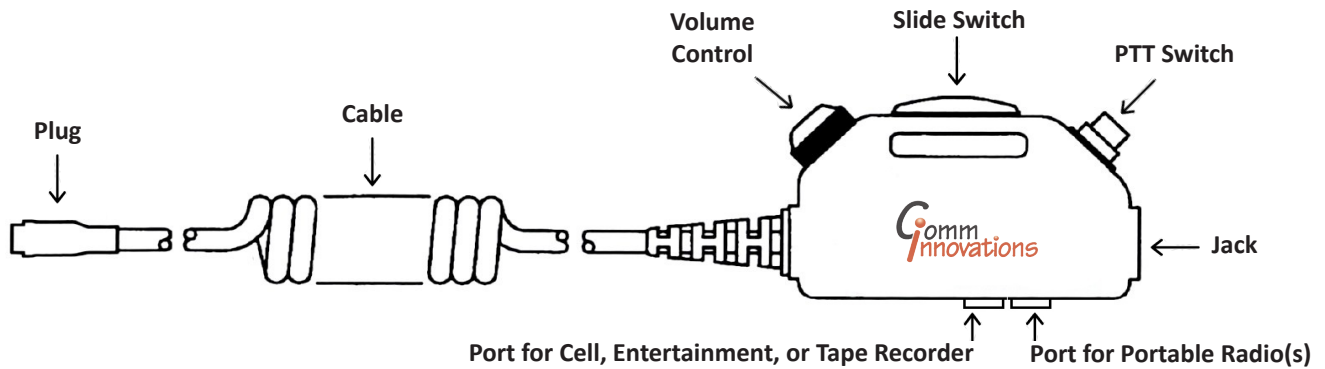
Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

Notes	
(1) Cell phone always on	
(2) Special cable for EMS, 20" straight from coil to case	

CIX5CP Series Switch & Cable Assemblies

civilian ANR headsets with microphone interrupt (no key functions)

(Includes Cell Phone Port & Port For Portable Radio.)



CIX5CP

Case & Clip	Switch Config	Jack	Radio..	Cable & Length	Volume Control	If Stereo...	Plug

Accessory Cable

See page 28

Case & Clip

See page 28

Switch Configuration

See page 28

Jack		
code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Bose X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Bose X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Radio to ICS Feed Thru

code

see page 28

If Stereo ICS & 2 Jack

code

S

Cable & Length

See page 28

Volume Control

code	imp	ground
none	-	-
H	hi	yes
HA		no

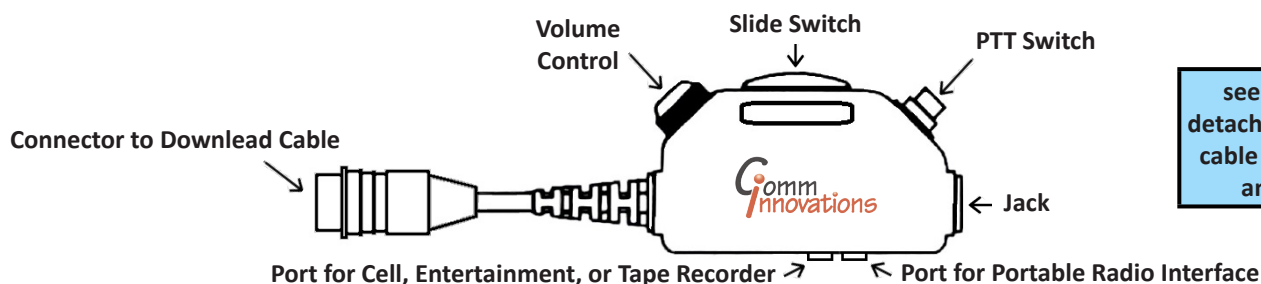
Plug

code	description
PX	Bose X (Lemo 6)
PD	David Clark (Hirose 10)
84R	U-384/U (5 contacts) (1)
108	TP-108 (biaxially shielded)

CIX5CP Series Switch & Cable Assemblies

with Detachable Download Cables (1)

(Includes Cell Phone Port & Port For Portable Radio.)



see page 45 for
detachable download
cable part numbers
and options

CIX5CP

Case & Clip	Switch Config	Jack	Volume Control	DJ

Accessory Cable

See page 28

Case & Clip

See page 28

Switch Configuration

See page 28

Jack

See page 28 or above

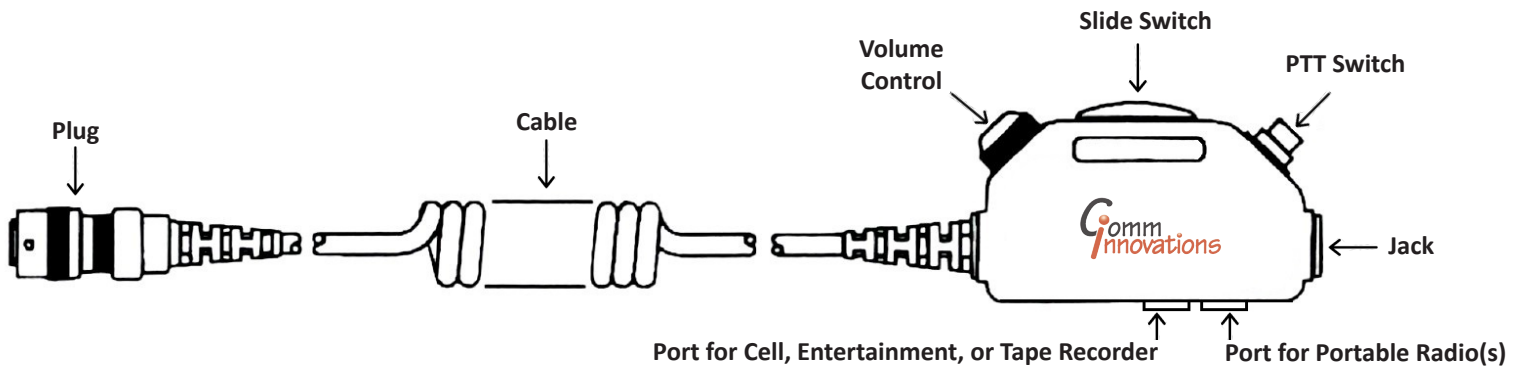
Volume Control

See page 28

CIX6CP Series Switch & Cable Assemblies

standard civilian headsets with single key functions

(Includes Cell Phone Port & Port For Portable Radio.)



CIX6CP

Case & Clip	Switch Config	Jack	Volume Control	Radio..	Cable & Length	Plug

Accessory Cables	
Code	Included
C	cell phone
P	portable radio

Switch Configuration					
code				PTT	mike
	back	center	forward	switch	interrupt
0	mom (ICS)	cell (1)	mom (PR)	none	none
1	lock (ICS)	cell (1)	mom (PR)	none	none
0Y	mom (ICS)	cell (1)	mom (PR)	none	mike hi
1Y	lock (ICS)	cell (1)	mom (PR)	none	mike hi
2	mom (ICS)	off	lock (cell)	PR	mike hi
3	lock (ICS)	off	lock (cell)	PR	mike hi
3Y	lock (vox)	off	lock (cell)	PR	mike hi
4	mom (xmit)	cell (1)	mom (PR)	none	none****
4Y	mom (xmit)	cell (1)	mom (PR)	none	mike hi
5	mom (xmit)	off	lock (cell)	PR	mike hi
8Y	select (ICS)	cell (1)	select (PR)	key	none****
6Y	select (ICS)	cell (1)	select (PR)	key	mike hi
6V	select (vox)	cell (1)	select (PR)	key	mike hi
7	select (ICS)	cell (1)	select (PR)	key	none****
7Y	select (ICS)	cell (1)	select (PR)	key	mike hi

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Plug	
code	description
6P	MS3116A 10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
10W (3)	MS3476W12-10P (10 contact plugs)
6P	PJ-055B & PJ-068 (general aviation)

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

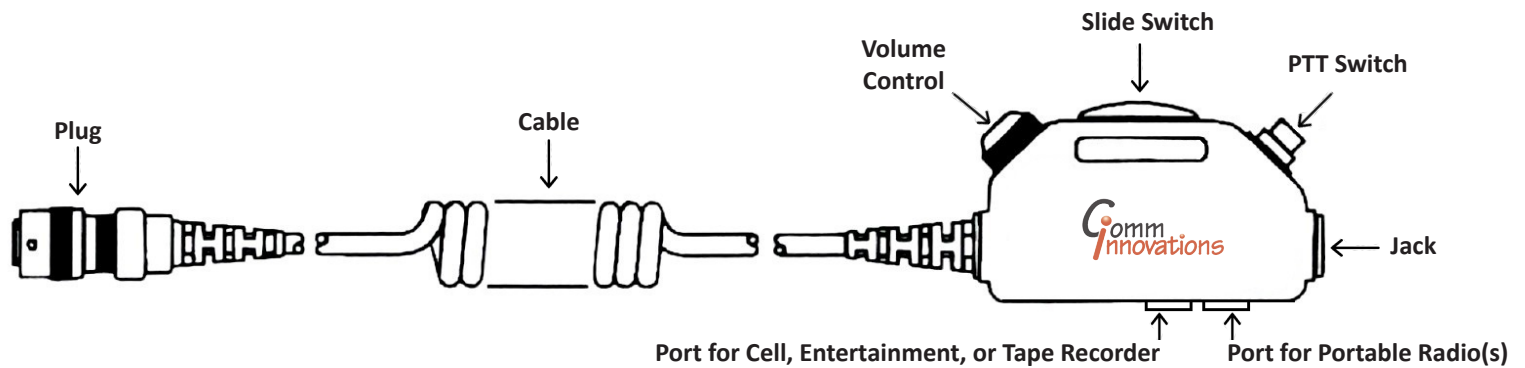
Radio to ICS Feed Thru	
code	description
none	no
F	yes

- (1) Cell phone always on
- (2) Special cable for EMS, 20" straight from coil to case
- (3) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for partial listing)

CIX6CP Series Switch & Cable Assemblies

civilian ANR headsets with with single key functions

(Includes Cell Phone Port & Port For Portable Radio.)



CIX6CP

Case & Clip	Switch Config	Jack	Radio..	Cable & Length	Volume Control	If Stereo...	Plug

Accessory Cable

See page 30

Case & Clip

See page 30

Switch Configuration

See page 30

Jack		
code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Bose X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Bose X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Radio to ICS Feed Thru

code

see page 30

If Stereo ICS & 2 Jack

code

S

Cable & Length

See page 30

Volume Control

See page 30

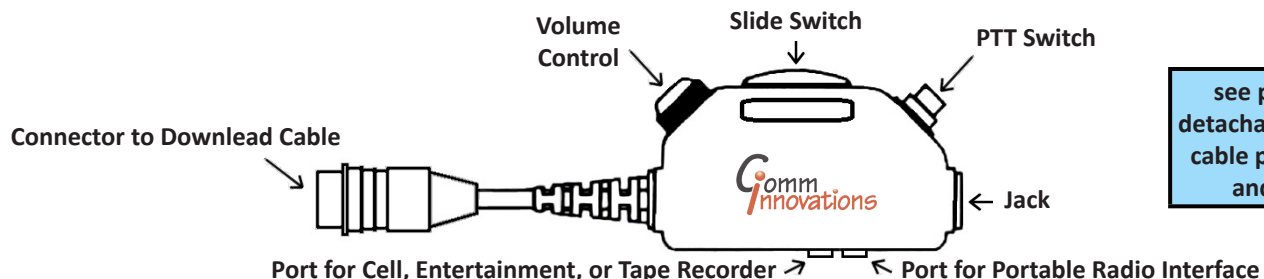
Plug

code	description
10W (1)	MS3476W10-6P (10 Contact plugs)
108	TP-108 (biaxially shielded)

- (1) Complete listing of MS3476W10-6P wiring options available upon request. See page 21 for partial listings.
- (2) Cell phone audio amplification power lost when detached from aircraft.

CIX6CP Series Switch & Cable Assemblies

with Detachable Download Cables (2) (Includes Cell Phone Port & Port For Portable Radio.)



see page 45 for detachable download cable part numbers and options

CIX6CP

Case & Clip	Switch Config	Jack	Volume Control	DJ

Accessory Cable

See page 30

Case & Clip

See page 30

Switch Configuration

See page 30

Jack

See page 30 or above

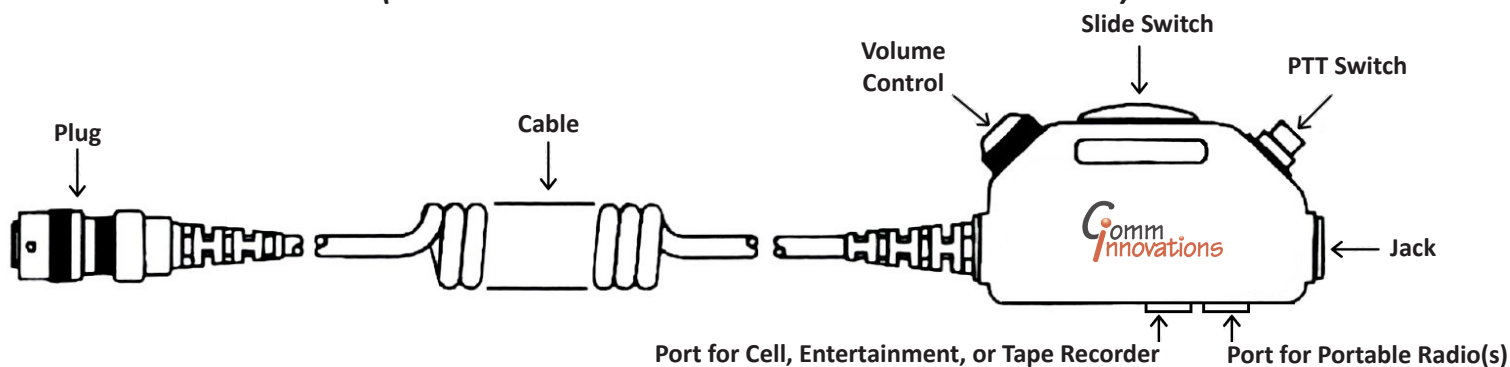
Volume Control

See page 30

CIX7CP Series Switch & Cable Assemblies

standard civilian headsets with ICS & transmit key function

(Includes Cell Phone Port & Port For Portable Radio.)



CIX7CP

Case & Clip	Switch Config	Jack	Radio..	Volume Control	Cable & Length	Plug

Accessory Cables	
Code	Included
C	cell phone
P	portable radio

Switch Configuration					
code	Slide Switch			PTT switch	mike interrupt
	back	center	forward		
0			mom (ICS)	PR	mike hi
1	mom (xmit)	cell***	lock (ICS)		
1V			lock (vox)		

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2	beige	none	-
4		large	
F	blue	low	yes
7		large	
8	gray	low	no
9		large	
A	red	none	-
R		large	
S	olive drab	none	no
D		large	
E	olive drab	none	-
		large	

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

Radio to ICS Feed Thru	
code	description
none	no
F	yes

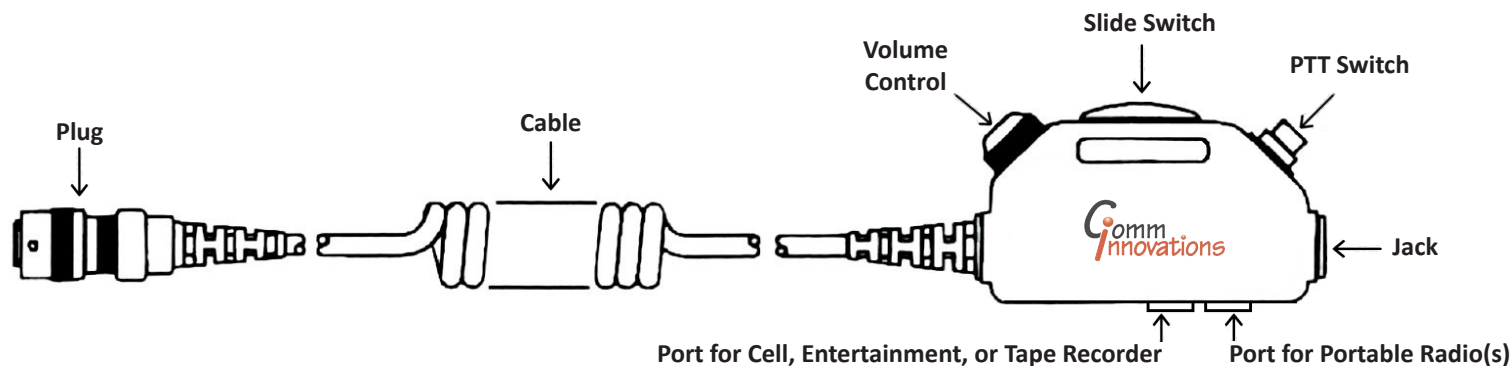
Plug	
code	description
6P	MS3116A 10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
10W (3)	MS3476W12-10P (10 contact plugs)

- (1) Cell phone always on
- (2) Special cable for EMS, 20" straight from coil to case
- (3) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for parial listing)

CIX7CP Series Switch & Cable Assemblies

civilian ANR headsets with ICS & transmit key function

(Includes Cell Phone Port & Port For Portable Radio.)



CIX7CP

Case & Clip	Switch Config	Jack	Radio..	Cable & Length	Volume Control	If Stereo...	Plug

Accessory Cable

See page 32

Case & Clip

See page 32

Switch Configuration

See page 32

Jack		
code	std headset	ANR headset
X	none	Bose X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120	Bose X (Lemo 6)
TD	(civil helo)	David Clark (Hirose 10)
TJX	TJ-101	Bose X (Lemo 6)
TJD	(civil helo)	David Clark (Hirose 10)
GX	general aviation	Bose X (Lemo 6)
GD		David Clark (Hirose 10)

Radio to ICS Feed Thru

code

see page 32

If Stereo ICS & 2 Jack

code

S

Cable & Length

See page 32

Volume Control

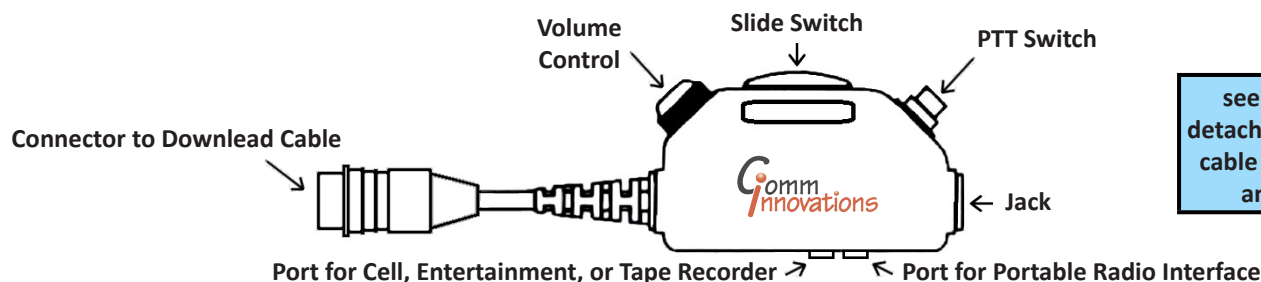
See page 32

Plug	
code	description
10W (1)	MS3476W10-6P (10 Contact plugs)
108	TP-108 (biaxially shielded)

- (1) Complete listing of MS3476W10-6P wiring options available upon request. See page 21 for partial listings.
- (2) Cell phone audio amplification power lost when detached from aircraft.

CIX7CP Series Switch & Cable Assemblies

with Detachable Download Cables (2) (Includes Cell Phone Port & Port For Portable Radio.)



see page 45 for detachable download cable part numbers and options

CIX7

Access. Cables	Case & Clip	Switch Config	Jack	Volume Control	DJ
P					

Accessory Cable

See page 32

Case & Clip

See page 32

Switch Configuration

See page 32

Jack

See page 32 or above

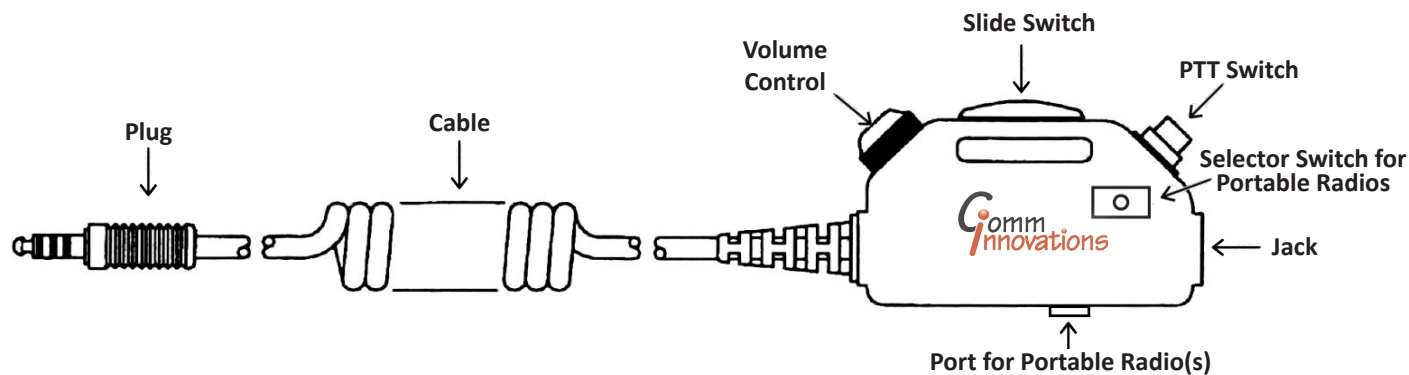
Volume Control

See page 32

CIX5P & 5DP Series Switch & Cable Assemblies

standard civilian headsets with microphone interrupt (no key functions)

(Includes Dual Ports For Portable Radios.)



CIX5

Portable Radios	Case & Clip	Switch Config	Jack	Radio..	Volume Control	Cable & Length	Plug

Portable Radios	
code	description
P	one
DP	two

Switch Configuration			
code	Slide Switch		PTT switch
	back	forward	
0	mom (ICS)	mom (PR)	none
1	lock (ICS)	mom (PR)	none
2	mom (ICS)	mom (ICS)	PR

Radio to ICS Feed Thru	
code	description
none	no
F	yes

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	
R	red	large	no
S		none	
D	olive drab	large	no
E		none	

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

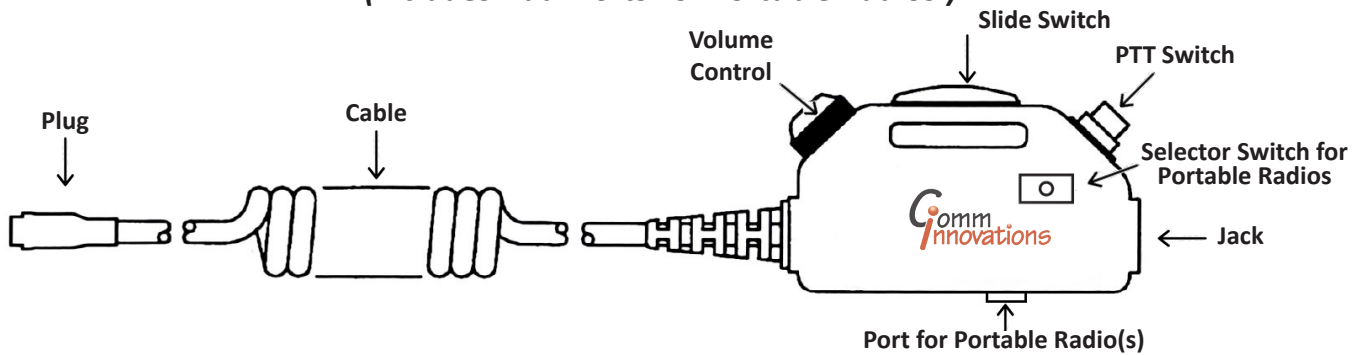
Plug	
code	description
74	Bose X (Lemo 6)
YP	CIPC-055 & CIPC-068 (general aviation)
4L	Lugs
4X	no plug

(1) Special cable for EMS, 20" straight from coil to case

CIX5P & 5DP Series Switch & Cable Assemblies

civilian ANR headsets with microphone interrupt (no key functions)

(Includes Dual Ports For Portable Radios.)



CIX5

Portable Radios	Case & Clip	Switch Config	Jack	Radio..	Volume Control	If Stereo...	Cable & Length	Plug

Portable Radios	Jack			Radio to ICS Feed Thru	If Stereo ICS & 2 Jack	
See page 34	code	std headset	ANR headset	code	code	
	X	none	Bose X (Lemo 6)	see page 34	S	
	D		David Clark (Hirose 10)			
	TX	TJT-120 (civil helo)	Bose X (Lemo 6)			
	TD		David Clark (Hirose 10)			
	TJX	TJ-101 (civil helo)	Bose X (Lemo 6)			
	TJD		David Clark (Hirose 10)			
	GX	general aviation	Bose X (Lemo 6)			
	GD		David Clark (Hirose 10)			

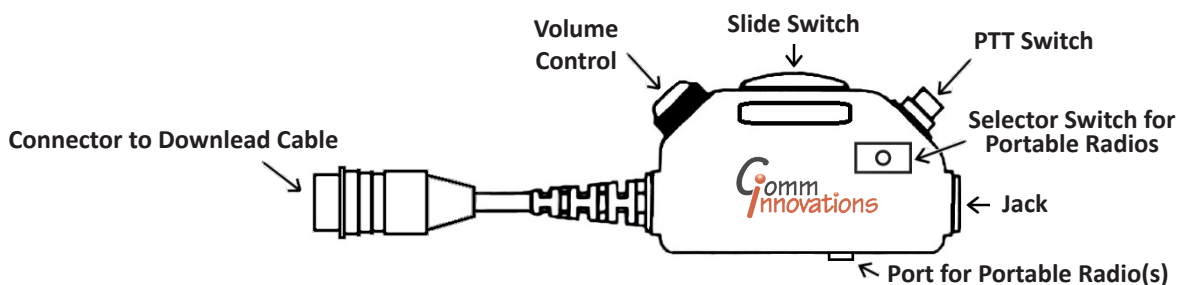
Cable & Length		Plug	
See page 34		code	description
		PX	Bose X (Lemo 6)
		PD	David Clark (Hirose 10)
		108	TP-108 (Biaxilly Shielded)

Volume Control
See page 34

CIX5P & 5DP Series Switch & Cable Assemblies

with Detachable Download Cables (1)

(Includes Dual Ports For Portable Radios.)



see page 45 for detachable download cable part numbers and options

CIX5

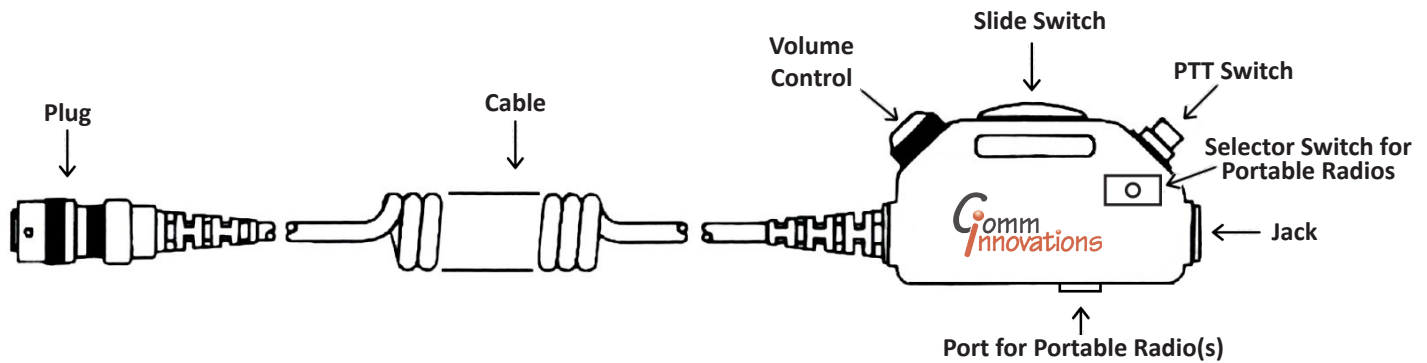
Access. Cables	Case & Clip	Switch Config	Jack	Volume Control	DJ

Portable Radios	Case & Clip	Switch Configuration	Jack	Volume Control
See page 34	See page 34	See page 34	See page 34 or above	See page 34

CIX6P & 6DP Series Switch & Cable Assemblies

standard civilian headsets with single key function

(Includes Dual Ports For Portable Radios.)



CIX6

Portable Radios	Case & Clip	Switch Config	Jack	Volume Control	Radio..	Cable & Length	Plug

Portable Radios

code	description
P	one
DP	two

Case & Clip

code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	-
R	red	large	no
S		none	-
D	olive drab	large	no
E		none	-

Cable & Length

code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Switch Configuration

code			PTT switch	mike interrupt
	back	forward		
0	mom (ICS)	mom (PR)	none	none
1	lock (ICS)	mom (PR)	none	none
0Y	mom (ICS)	mom (PR)	none	mike hi
1Y	lock (ICS)	mom (PR)	none	mike hi
2	mom (ICS)	mom (ICS)	PR	none
3	mom (ICS)	lock (ICS)	PR	none
2Y	mom (ICS)	mom (ICS)	PR	mike hi
3Y	mom (ICS)	lock (ICS)	PR	mike hi
3V	mom (ICS)	lock (vox)	PR	mike hi
4	mom (xmit)	mom (PR)	none	none
4Y	mom (xmit)	mom (PR)	none	mike hi
5	mom (xmit)	mom (xmit)	PR	none
5Y	mom (xmit)	mom (xmit)	PR	mike hi
6	select (ICS)	select (PR)	key	none
6Y	select (ICS)	select (PR)	key	mike hi
6V	select (vox)	select (PR)	key	mike hi
7	select (xmit)	select (PR)	key	none
7Y	select (ICS)	select (PR)	key	mike hi

Jack

code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Volume Control

code	imp	ground
none	-	-
H	hi	yes
HA		no

Radio to ICS Feed Thru

code	description
none	no
F	yes

Plug

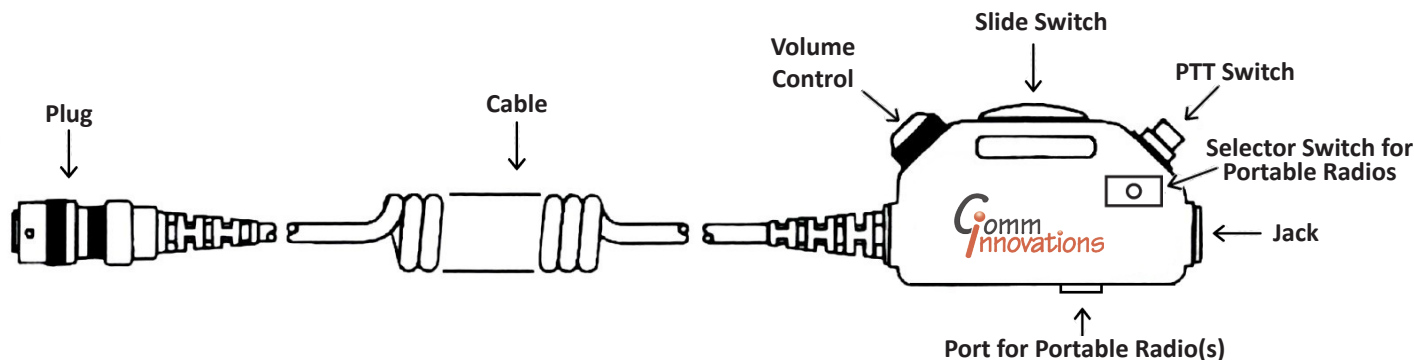
code	description
74K	U-174/U (wired for key)
6P	PTO 6A10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
6WE	MS3476W10-6P & EMI Backshell
10W (2)	MS3476W12-10P (10 contact plugs)

(1) Special cable for EMS, 20" straight from coil to case
 (2) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for partial listing)

CIX6P & 6DP Series Switch & Cable Assemblies

civilian ANR headsets with with single key function

(Includes Dual Ports For Portable Radios.)



CIX6

Portable Radios	Case & Clip	Switch Config	Jack	Volume Control	Cable & Length	Plug

Portable Radios
See page 36

Case & Clip
See page 36

Switch Configuration
See page 36

Jack Configuration (see page 2)		
code	STD headset	ANR headset
X	none	Box X (Lemo 6)
D		David Clark (Hirose 10)
TX	TJT-120 (civil helo)	Box X (Lemo 6)
TD		David Clark (Hirose 10)
TJX	TJ-101 (civil helo)	Box X (Lemo 6)
TJD		David Clark (Hirose 10)
GX	general aviation	Box X (Lemo 6)
GD		David Clark (Hirose 10)

Volume Control
See page 36

Cable & Length
See page 36

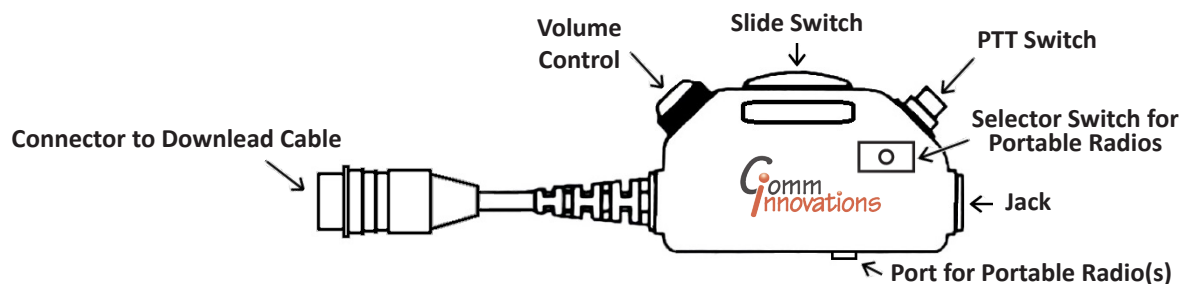
Plug	
code	description
10W (1)	MS3116A 10-6P (6 contact plugs)
D35	D38999/WB35PN
108	TP-108 (biaxially shielded)

(1) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for parial listing)

(2) Cable to portable radio not included. Order separately.

CIX6P & 6DP Series Switch & Cable Assemblies

with Detachable Download Cables (2) (Includes Dual Ports For Portable Radios.)



see page 45 for detachable download cable part numbers and options

CIX6

Access. Cables	Case & Clip	Switch Config	Jack	Volume Control	DJ

Portable Radios
See page 36

Case & Clip
See page 36

Switch Configuration
See page 36

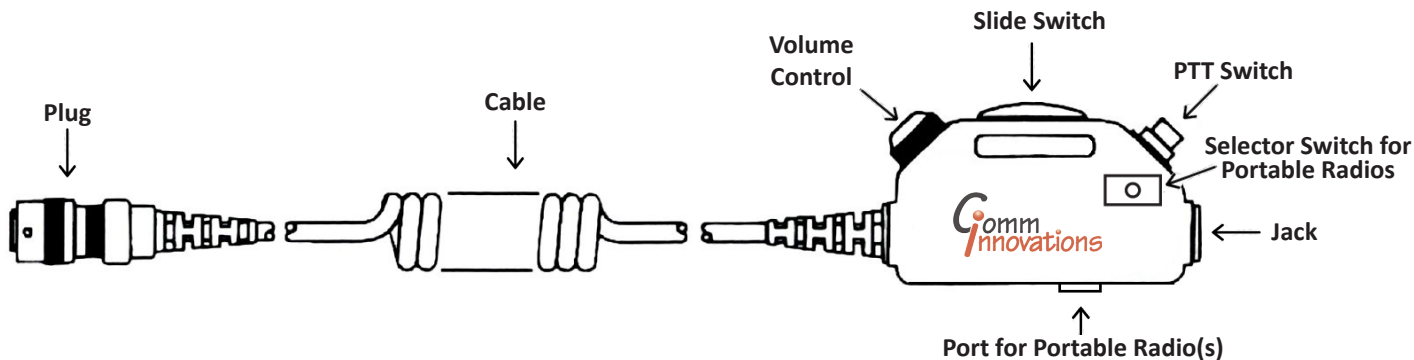
Jack
See page 36 or above

Volume Control
See page 36

CIX7P & 7DP Series Switch & Cable Assemblies

standard civilian headsets with with ICS & transmit key functions

(Includes Dual Ports For Portable Radios.)



CIX7

Portable
Radios

Case & Clip

Switch
Config

Jack

Radio..

Volume
Control

Cable &
Length

Plug

Portable Radios	
code	description
P	one
DP	two

Case & Clip			
code	color	profile	rotating
1	black	large	yes
C		low	
2		none	-
4	beige	large	yes
F		low	
7	blue	large	yes
8		low	
9	gray	large	no
A		none	
R	red	large	no
S		none	
D	olive drab	large	no
E		none	

Switch Configuration			
code	back	forward	PTT switch
0	mom (xmit)	mom (ICS)	none
1		lock (ICS)	none
0Y		mom (ICS)	none
1Y		lock (ICS)	none
1V		lock (vox)	PR

Jack	
code	description
none	TJT-120 (civil helo)
G	CIJ-055 & CIJ-068 (GA)
TJ	TJ-101 (civil helo)

Radio to ICS Feed Thru	
code	description
none	no
F	yes

Volume Control		
code	imp	ground
none	-	-
H	hi	yes
HA		no

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
6P	MS3116A 10-6P (6 contact plugs)
6W	MS3476W10-6P (6 contact plugs)
10W (2)	MS3476W12-10P (10 contact plugs)

- (1) Special cable for EMS, 20" straight from coil to case
- (2) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for partial listing)

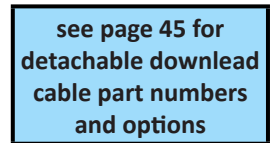
(Includes Dual Ports For Portable Radios.)



(1) Complete listing of MS3476W12-10P wiring options available upon request. (see pg 21 for partial listing)

(2) Cable to portable radio not included. Order Separately.

with Detachable Download Cables (2) *(Includes Dual Ports For Portable Radios.)*



Portable Radios	Case & Clip	Switch Configuration	Jack	Volume Control
See page 38	See page 38	See page 38	See page 38 or above	See page 38

CIX500, 600, & 700 Series Spare Parts

Case Assemblies



CICSX

Case & Clip



Drilled For



Case & Clip

See page 38

Drilled For

C	cell phone
P	one portbale radio
DP	two portable radios
CP	cell phone & portable radio

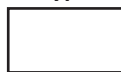
Plug to Tape Recorder
or Entertainment



2.5mm Plug to
Switch Case

CI

Type



Cable (to switch case)



Type

code	description
TR	3.5mm (tape recorder)
E	3.5mm (entertainment)

Cable (to switch case)

code	description	length
OXX	straight	xx inches
X	straight	x feet
K3	coiled	3 feet
K6	coiled	6 feet

Spare Volume Control Knob



CIKNB-303TPN

Potentiometers



**Commercial Potentiometers
with nut & washer**

code	description
CIPOT-1-500	(500 ohms)
CIPOT-1-2000	(2,000 ohms)



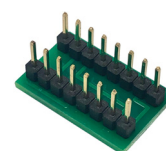
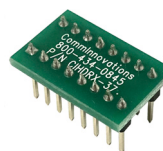
**Mil Spec Potentiometers
with nut & washer**

code	description
CIPOT-1-100	(100 ohms)
CIPOT-1-2000	(2,000 ohms)
CIPOT-1-10K	(10,000 ohms)

Headers

Mike Interrupt (no key) Switch Configurations

header p/n	cable p/n	description
CIHRDX-46	CIX2()0... or CIX2()1...	mom-mom or mom-lock
CIHDRX-37	CIX2()3...3	3 NO push to talk



Single Key Switch Configurations

header p/n	cable p/n	description	mik int
CIHRDX-44	CIX3()0... or CIX3()2...	key mom-mom or mom lock	none
CIHRDX-46	CIX3()1... or CIX3()3...	key mom-mom or mom lock	mike hi
CIHDRX-46V	CIX3()4...	mom-lcok (ICS vox)	mike hi
CIHDRX-36	CIX3()6...	3 NO push to talk	none
CIHDRX-37	CIX3()7...		mike lo
CIHDRX-38	CIX3()8...		mike hi

ICS & Single Key Switch Configurations

header p/n	cable p/n	slide switch	mike int
CIHRDX-40	CIX4()0 or 2...	ICS - Xmit	none
CIHRDX-41	CIX4()1 or 3...		mike hi
CIHRDX-44	CIX4()4 ...	ICS mom-lock	none
CIHRDX-45	CIX4()5 ...		mike lo
CIHRDX-46	CIX4()6 ...		mike hi
CIHRDX-45V	CIX4()5V ...	ICS mom-vox-lock	mike lo
CIHRDX-46V	CIX4()6V ...		mike hi

Detachable Download Cables

CIDP

Case & Clip

Plug

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
74	TP-120 (civil helo)
YP	PJ-055B & PJ-068 (general aviation)
4L	Lugs
4X	no plug
PX	Bose X (Lemo 6)
PD	David Clark (Hirose 10)
84R	U-384/U (5 contacts***)
6P	PTO 6A 10-P (6 contact plugs)
6W	MS3476W 10-6P (6 contact plugs)
10W*	MS3476W 12-6P (6 contact plugs)
YK	PJ-055B & PJ-068 (GA wired for ky)
108	TP-108 (biaxially shielded)

*Complete listing of MA3476W12-10P wiring options available upon request (see page 21 for partial listing)

Portable Radio Interface Cables



Portable Radio

Cable

CIHPL6

Portable Radio

See page 51-56

Cable

code	cable	length
K	coil	3 feet
0XX	straight	xx inches
X	straight	x feet

Cell Cable with Audio Amplification



CICPA

Battery

Cable
(to switch case)

Cable (to cell)

- P2.5

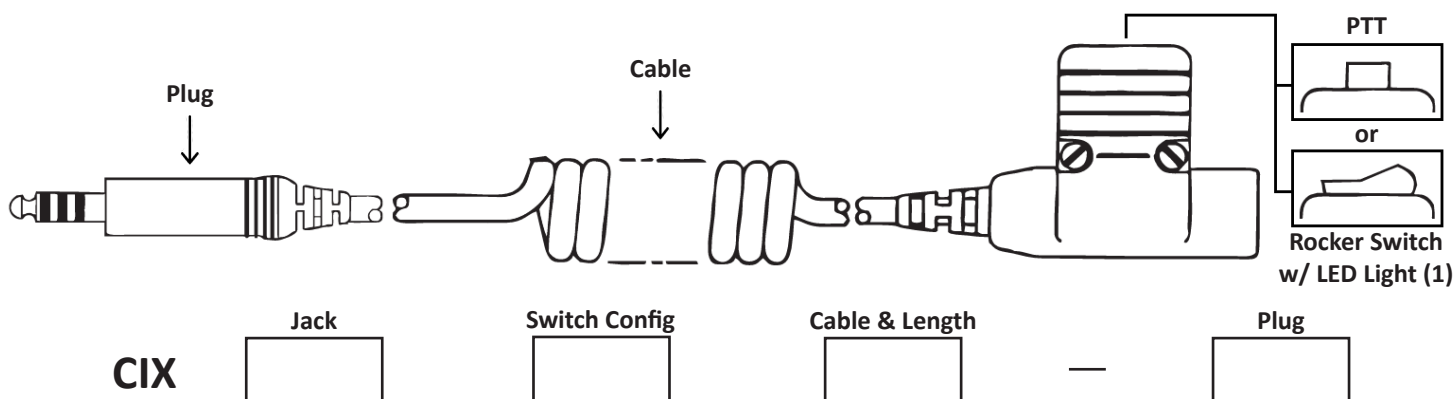
Battery	
code	description
B	9VDC
RB	Rechargeable

Cable (to switch case)		
code	cable	length
0XX	straight	xx inches
X	straight	x feet
K3	coiled	3 feet
K6	coiled	6 feet

Cable (to cell)		
code	cable	length
0XX	straight	xx inches
X	straight	x feet
K3	coiled	3 feet
K6	coiled	6 feet

CIX94 and CIX105 Series Switch & Cable Assemblies

with microphone interrupt (no key functions)



Jack	
code	description
94	U-94A/U
105	TJT-105 (5 contacts)
94NJ	NATO (Europe)
G	General Aviation (4)
GS	GA Stereo (4)
X	Bose

Switch	
code	type
none	PTT
R	rocker (1)

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
6P	MS3116A10-6P w/ overmold
6W	MS347610W-6P w/ overmold & backshell
10W /tbd (3)	MS347612W-10P w/ overmold & backshell
77	U-77/U (ten contacts) MIL-C-10544
YK	CIPC-055 & CIPC-068 (General Aviation)
YKS	CIPC-051 & CIPC-068 (GA Stereo)

CIX94 & CIX105 Series Switch & Cable Assemblies

with single key functions



Jack	
code	description
94	U-94A/U
105	TJT-105 (5 contacts)
94NJ	NATO (Europe)
G	General Aviation (4)
GS	GA Stereo (4)
X	Bose

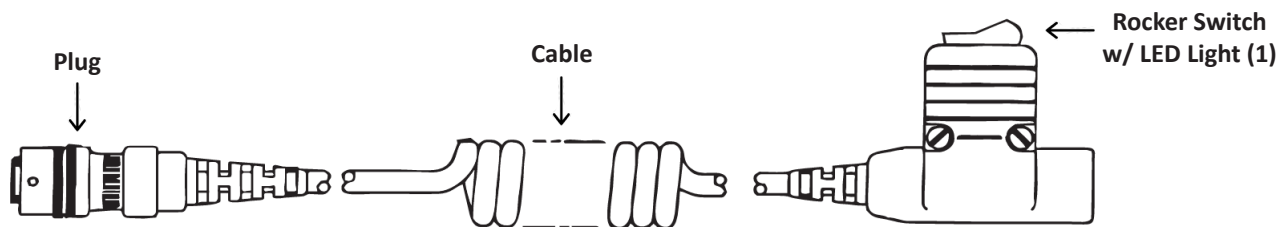
Switch			
code	type	key	mike int
none	3 NO PTT	ICS	none
Y			mike hi
D	PPDT PTT	ICS	mike lo
X	3 NO PTT	XMIT	none
XY			mike hi
D	PPDT PTT	XMIT	mike lo
R	3 NO PTT	ICS	none
RD	PPDT PTT	ICS	mike lo
RX	3 NO PTT	XMIT	none
RD	PPDT PTT	XMIT	mike lo

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
6P	MS3116A10-6P w/ overmold
6W	MS347610W-6P w/ overmold & backshell
10W /tbd (3)	MS347612W-10P w/ overmold & backshell
77	U-77/U (ten contacts) MIL-C-10544
YK	CIPC-055 & CIPC-068 (General Aviation)
YKS	CIPC-051 & CIPC-068 (GA Stereo)

CIX94 and CIX105 Series Switch & Cable Assemblies

with ICS and transmit key functions



CIX

Jack

Switch Config

Cable & Length

Plug

Jack
See page 39

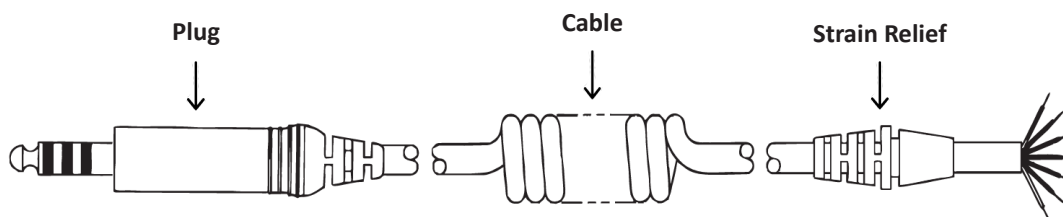
Switch Configuration		
code	rocker switch	mike int
RM	ICS (mom) - Xmit (mom)	none
RYM		mike hi
RL	ICS (lock) - Xmit (mom)	none
RLY	ICS vox (lock) - Xmit (mom)	mike hi

Cable & Length
See page 39

Plug	
code	description
6P	MS3116A10-6P w/ overmold
6W	MS3476W10-6P w/ backshell & overmold
10W/tbd (3)	MS3476W12-10P w/ backshell & overmold
77	U-77/U (ten contacts) MIL-C-10544

- (1) LED light illuminates when mike is 'on', civilian ICS only
- (2) special EMS cable with 20" straight section end of coil to PTT
- (3) complete listing of MS347612W-10P wiring options available upon request, see page 21 for partial listing
- (4) case for general aviation jacks not shown

Spark Cable Assemblies



CIX

Cable & Length

Strain Relief

Plug

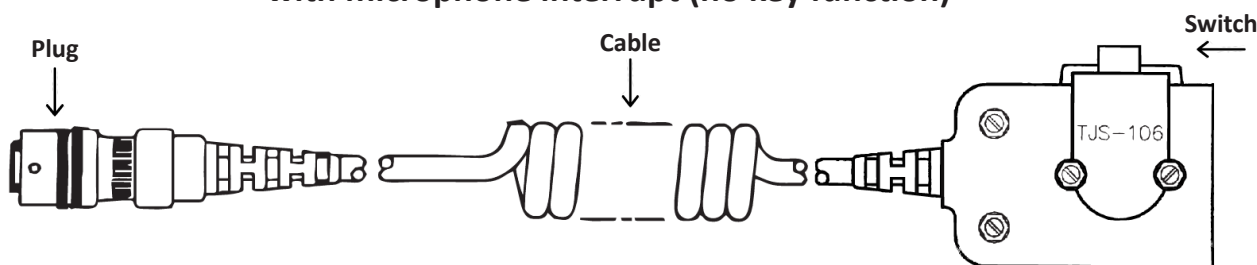
Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Strain Relief	
code	description
94	CIX94 types
x	CIXG types

Plug			
code	description	code	description
28-51	Commercial Aviation	24-6P	MS3116A10-6P
28-74	TP-120	24-6W	MS3476W10-6P
28-75	U-75/U (US Navy)	24-10W	MS3476W12-10P
28-84	U-384/U mono	28-YP	General Aviation
28-84S	U-384/U stereo	28-YPS	GA Stereo
28-NP	10H-18575 AM-671	28-YK	GA w/Key
28-NPS	NATO w/shroud	28-YKS	GA stereo w/Key

CIX104S, CIX106S, & CIX108S Biaxial Shielded Series Switch & Cable Assemblies

with microphone interrupt (no key function)



CIX

Jack/ Switch

Cable & Length

Plug

Jack/ Switch	
code	description
104S	TJSS-104 (4 contacts)
106S	TJSS-106 (6 contacts)
108S	TJSS-108 (8 contacts)

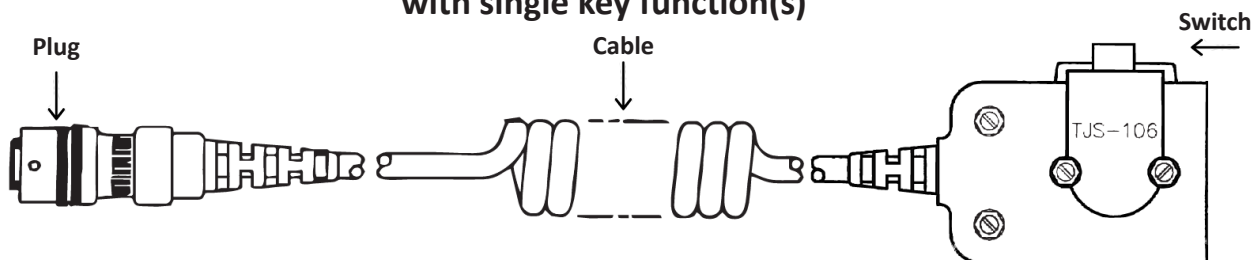
Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (1)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
106	6 contact TP-106 Biaxially Shielded
108	8 contact TP-108 Biaxially Shielded
74	TP-120 (civil helo)
74M	U-174/U (military helo)
75	U-75/U (USFS or USN)
NP	NATO (AM671 / 10H-17575 Europe)
84	U-384/U (5 contacts, stereo)
84R	U394/U (5 contacts, ANR)
YP	CIPC-055B & CIPC-068 (GA)

- (1) special coil cable for EMA applications, 20" straight section from end of coil to PTT
- (2) complete listing of MS347612W-10P wiring options available upon request, see page 21 for partial listing

CIX104 & CIX108 Biaxial Shielded Series Switch & Cable Assemblies

with single key function(s)



CIX

Jack/ Switch

Cable & Length

Plug

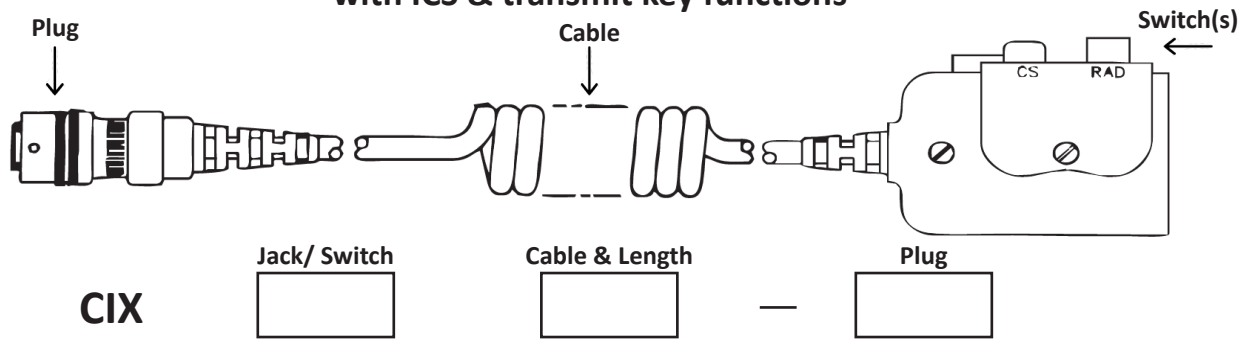
Jack/ Switch	
code	description
104SS	TJSS-104 (4 contacts)
106SS	TJSS-106 (6 contacts)
108SS	TJSS-108 (8 contacts)

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (1)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
108K	8 contact TP-108 Biaxially Shielded
74K	U-174/U (wired for key)
6P	MS3116A10-6P (6 contact plug)
6W	MS3476W10-6P (6 contact plug)
6WE	MS3476W10-6P & EMI backshell
10W	MS3476W12-10P (10 contact plug)
10WE	MS3476W12-10P & EMI backshell
77	U-77/U (MIL-C-10544)
YK	CIPC-055 & CIPC-68 (GA)

CIX104SS, CIX106SS, & CIX108SS Biaxial Shielded Series Switch & Cable Assemblies

with ICS & transmit key functions



CIX

Jack/Switch	
code	description
104SS	TJSS-104 (4 contacts)
106SS	TJSS-106 (6 contacts)
108SS	TJSS-108 (8 contacts)

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (1)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Plug	
code	description
6P	MS3116E10-6P (6 contact plug)
6W	MS3476W10-6P (6 contact plug)
6WE	MS3476W10-6P & EMI backshell
10W (2)	MS3476W12-10P (10 contact plug)
10WE (2)	MS3476W12-10P & EMI backshell
77	U-77/U (MIL-C-10544)

Standard Wiring for Biaxially Shielded Connectors

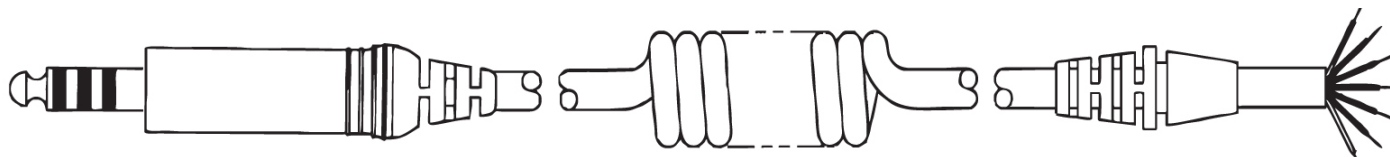
(unless otherwise specified)

	TP-106 Plug	TJ-106 Jack	TJS-106 Jack (mike interrupt)	TJS-106 Jack (single key)	TJSS-106 Jack (ICS & Xmit Key)
Mike Hi	Red to P1 (tip)	Red to J1 (tip)	Red to PTT 1 PTT 2 to J1 (tip)	Red to J1 (tip)	Red to J1 (tip)
Mike Lo	Green to P2 (ring)	Green to J2 (ring)	Green to J2 (ring)	Green to J2 (ring)	Green to J2 (ring)
Mike Shield	to P3 (sleeve)	to J3 (sleeve)	to J3 (sleeve)	to J3 (sleeve)	to J3 (sleeve)
Phones Hi	White to J1 (tip)	White to P1 (tip)	White to J1 (tip)	White to J1 (tip)	White to J1 (tip)
Phones Lo	Black to J2 (ring)	Black to P2 (ring)	Black to J2 (ring)	Black to J2 (ring)	Black to J2 (ring)
Phones Shield	to J3 (sleeve)	to P3 (sleeve)	to J3 (sleeve)	to J3 (sleeve)	to J3 (sleeve)
ICS Key	n/a	n/a	n/a	Yellow to PTT 1	Yellow to ICS PTT 1
Xmit Key	n/a	n/a	n/a	n/a	Blue to Xmit PTT 1
Key Return	n/a	n/a	n/a	Brown to PTT 2	Brown to both PTT 2s

	TP-108 Plug	TJ-108 Jack	TJS-108 Jack (mike interrupt)	TJS-108 Jack (single key)	TJSS-108 Jack (ICS & Xmit key)
Mike Hi	Red to P3	Red to J3	Red to PTT 1 PTT 2 to J3 (tip)	Red to J3	Red to J3
Mike Lo	Green to P1	Green to J1	Green to J1	Green to J1	Green to J1
Phones Hi	White to P2	White to J2	White to J2	White to J2	White to J2
Phones Lo	Black to P4	Black to J4	Black to J4	Black to J4	Black to J4
Shield	All shields to J1	All shields to P1	All shields to P1	All shields to P1	All shields to P1
Power Ground	Blue to J2	Blue to P2	Blue to P2	Blue to P2	J4 to P2
no contact	n/a	n/a	P3	P3	to P3
Power +28 vdc	Yellow to J4	Yellow to P4	Yellow to P4	Yellow to P4	Yellow to P4
ICS Key	J3 (if used)	P3 (if used)	n/a	Brown to PTT 1	Brown to ICS PTT 1
Xmit Key	n/a	n/a	n/a	n/a	Blue to Xmit PTT 1
Key Return	n/a	n/a	n/a	J4 to PTT 2	J4 to both PTT 2s

CIX94, CIX105, CIX106 & CIX108 Spare Parts

Cable Assemblies



CI

Cable & Length

□

Jack/ Switch

Plug

9

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft coil (2)
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
K20	20 ft coil
/XX	XX ft straight

Jack/Switch	
code	description
94	U-94A/U or TJS-105
108	TJS-106 TJSS-106 TJS-108 TJSS-108

Plug	
code	description
74	TP-120 (civil helo)
74M	TP-120 (military helo)
74K	TP-120 (wired for key)
75	U-75/U (USFS or USN)
NP	nato (Europe)
84	U-384/U (5 contacts)
YP	CIPC-055 & CIPC-068 (gen'l av'n)
YPS	CIPC-051 (stereo) & CIPC-068 (GA keyed)
YK	CIPC-055 & CIPC-068 (keyed)
YKS	CIPC-051 (stereo) & CIPC-068 (keyed)
106	6 Pin TP-106 Biaxially Shielded
108	8 Pin TP-108 Biaxially Shielded
6W	MS3476W10-6P (6 contact plug)
6WE	MS3476W10-6P & EMI backshell
10W	MS3476W12-10P (10 contact plug)
10WE	MS3476W12-10P & EMI backshell
77	U-77/U (MIL-C-10544)

RAF C-130J CI98PN580T-5

Oxygen Mask Interface Cable

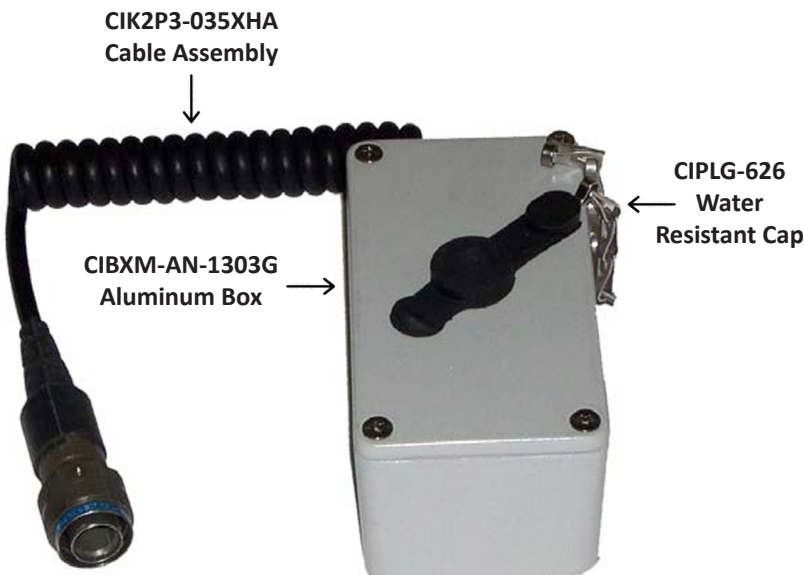


When the Royal Air Force (RAF) purchased the C-130J, it was specified that the aircraft be compatible with the Normalair Garrett type 15 Emergency Oxygen Mask. Lockheed Martin tasked CommInnovations, Inc. to design an Oxygen Mask Interface Cable (OMIC). OMIC is designed to wrap around the oxygen line to the RF C-130J aircraft ICS. Rigorous requirements were set to minimize electromagnetic interference.

The upper end of the CI98PNT-5 terminates in a Racal connector (NATO stock number 5965-00-951-5890 or 5935-99-911-6614) which mates with the Normalair Garrett oxygen masks. The lower end terminates in D38999/26WB98PN plug. A shielded interface circuit matches the RAF 200 ohm microphone to the 5 ohm input of the US type ICS. The overall cable length is 5 feet.

RAF C-130J CIXNJ-35PN

External Headset Adapter (XHA)



The CIXNJ-35PN External Headset Adapter (XHA) permits RAF ground crew to service the RAF C-130J aircraft.

The NATO jack and interface circuitry is built into the shielded housing. The opposing end of the cable shall be fitted with a D38999/26WB35PN bulkhead plug, which attaches to the aircraft in either one of two wells located on the exterior of the aircraft.

Not Shown
10H-18574-PM
Panel Mount NATO Jack

RAF C-130J & NATO C-27J

Biaxial Shielded Series Switch & Cable Assemblies with ICS & Transmit Key Functions

The C-130J and C-27 ICS systems are designed to be compatible with low impedance headsets such as the USAF H-157A/AIC. NATO and RAF versions of these aircraft require that it be configured to accept NATO type high impedance headsets fitted with the AM671 (CI part number 10H-18574) plug, USAF low impedance headsets fitted with the U-174/U plug, or ANR headsets fitted with the TP-108 plug.



CommInnovations, Inc. has designed a series of cable assemblies to provide an interface to match the impedance values, sensitivity levels, and plug options of these headset options to the ICS.

Application	RAF C-130J	NATO C-27	Westland Helo	PTT
Pilot / Co-Pilot	CI108NJ-K	CI108NJ27-K	CIS108NJW1-K6	No
Overhead Console	CIS 108NJ-K	CIS108NJ27-K	CIS108NJW1-K15	Yes
Augment	CIS108NJ-15	CIS108NJ27-15	CIS108NJW1-45	
Loadmaster	CIS108NJ-100	CIS108NJ27-100		

Cable			
-K	2 ft coiled	-15	15 ft straight
-K6	6 ft coiled	-45	45 ft straight
-K15	15 ft coiled	-100	100 ft straight

US C-27J

Biaxial Shielded Series Switch & Cable Assemblies with ICS & Transmit Key Functions

Application	US C-27	Cable	PTT
Pilot / Co-Pilot	C1108C27-K	2 ft coiled	No
Overhead Console	CIS108C27-K		Yes
Augment 1	CIS108C27-15	15 ft straight	Yes
Augment 2	CIS 108C27-50	50 ft straight	
Loadmaster	CIS 108C27-100	100 ft straight	

The US Coast Guard does not require compatibility with high impedance headsets (European)

Spare Cable Assemblies



Application	CI p/n~RAF C-103J	CI p/n~NATO C-27	Cable
Pilot/Co-Pilot/Overhead	CIK2P3D35	CI108NJ27-K	coiled
Augment	CIW152P3D35	CIS108NJ27-15	15 ft straight
Loadmaster	CIW1002P3D35	CIS108NJ27-100	100 ft straight

Spare Connectors



	CITJN-108	CITJN-108	CITJN-108	CITJN-108
Shell Halves, Clip & Hardware	included	included	included	included
Biaxially Shielded Plug & Jack	included	included	included	included
Two CIPLG-TJN Insert Plugs	included		included	
Insert Plug & CIPX-301LB1B PTT		included		included
AM626 9CI p/n 10H-18574) NATO Jack			included	included
CIT-2386 (4 to 150 ohm Transformer)			included	included
CIR01-715 (1% 715 ohm) Resistor			included	included
CIR01-825 (1% 825 ohm) Resistor			included	included
CI-8328 Poly Divider			included	included

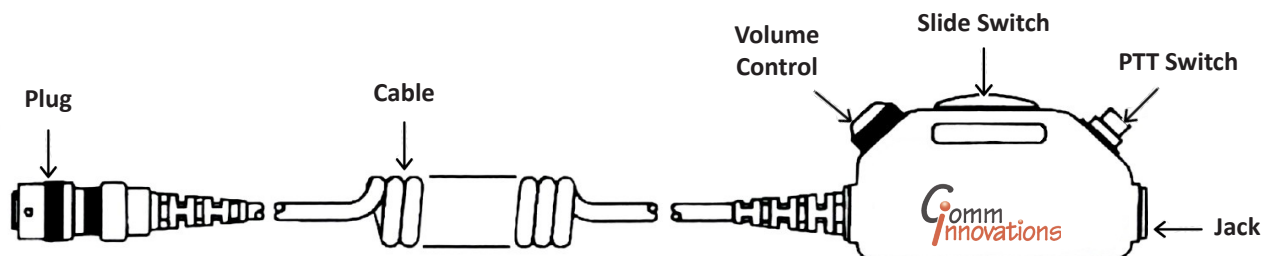
	Bulkhead Connector			Connector to Headset			Headset Plug		
	wire color	D38999/26WB35PN		CITJN-108			USAF	NATO	ANR
		RAF C-130J & Westland	NATO C-27	C-130 without PTT	C-27 & w/PTT C-130	Westland	U-174/U	AM671	TP-108
Mike Hi	Red	8	8	J3, 108 jack transformer & yellow stripe NATO jack	same	same	3	yellow dot	P3
Mike Lo	Green	9	9	J1, 108 jack transformer & green stripe NATO jack	same	same	1	green dot	P1
Phones Hi	White	1	1	J2, 108 jack & red stripe NATO jack	same	same	2	red dot	P2
Phones Lo	Black	2	2	J4, 108 jack & blue stripe NATO jack	same	same	4	blue dot	P4
Power Ground	Blue	6	6	P2 108 Plug	same	same			J2
Power + 28vdc	Yellow	5	5	P4 108 Plug	same	same			J4
ICS Key	Brown	10	10	n/a	PTT1	PTT1			
key return	Black	2	2	n/a	J4 108 Jack to PTT2	P2 108 Jack to PTT2			
All Shields	n/a	EMI backshell		P1 108 Plug	same	same			J1
no contact	n/a	3, 4 & 7	3	P3 108 Plug	same	same			J3
jumpers			4 & 7						

UH-60 Black Hawk Helicopter Cables

12 Point System

The UH-60 is sometimes used to transport passengers, so a twelve passenger intercom system was developed for this purpose. This intercom is a high impedance civilian type designed to be compatible with high impedance headsets. The UH-60 ICS, like most military intercommunication systems, is designed to be compatible with low impedance headsets.

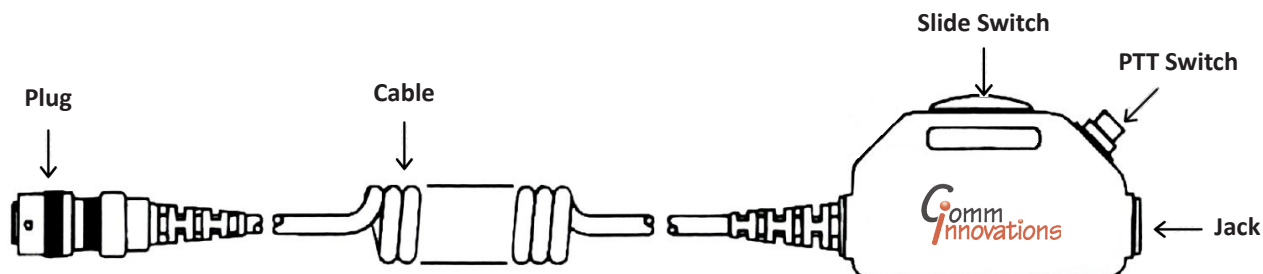
The switch and cable assembly used as part of the twelve passenger intercom system in the UH-60 is designed such that the microphone is interrupted in the normally open position. This is because if all twelve microphones were connected at the same time, an excessive impedance load would cause the system to not function properly. When the PTT is depressed, the microphone circuit of that single headset is completed at the same time the ICS line is keyed.



Part Number	Volume Control	Cable Length
CIXAT317HK6-6W	yes	6 ft coiled
CIXAT317HK10-6W		10 ft coiled
CIXAT317K6-6W	no	6 ft coiled
CIXAT317K10-6W		10 ft coiled

Satellite Command and Control

The US Army developed a satellite command and control communication system for the UH-60 helicopter which allows direct communication between the battle field commander and Centcom (central command) in Tampa. CommInnovations, Inc. was selected to provide the cable assemblies for this system.



CIX4A4MK15-6W/W9

P-8A Anti-Submarine Warfare Aircraft Cables

The Boeing P-8A Poseidon is used to conduct anti-submarine warfare, shipping interdiction, and carry torpedos, depth charges, anti-ship missiles, and other weapons. It also has the capability to drop and monitor sonobuoys.

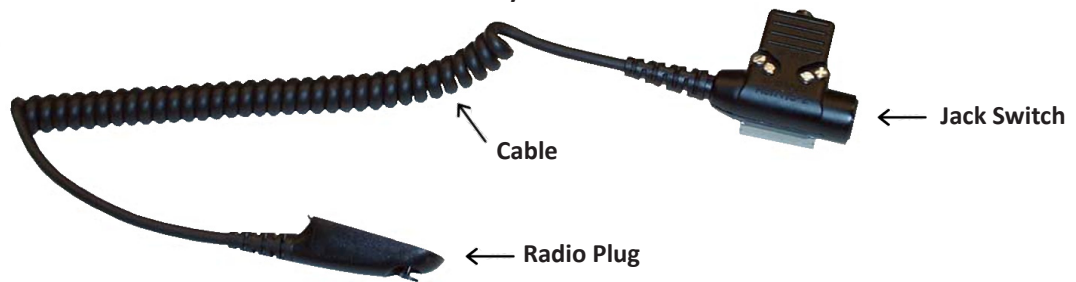
CommInnovations manufactures the switch and cable assembly that connects to the aircrewman's helmet and emergency mask. A selector switch is incorporated to allow quick change from the helmet mounted boom to the emergency mask.



Boeing P/N	CommInnovations P/N	Cable	Mike Interrupt	K-J Jumper
T-049560-4-3	CIX2S105CRK10-98B	10 ft coil	no	yes
T-049560-4-4	CIX2S105CR/25-98B	25 ft straight		
T-049560-4-5	CIX2S105CR/60-98B	60 ft straight		
T-049560-5	CIX2S105YCRK10-98B	10 ft coil	yes	no
T-049560-6	CIX2S105YCR/75-98B	75 ft straight		

Interfaces for Portable Radios

Civilian Helo or Military Headset



CIX

Jack	
code	description
94	U-94A/U (civil helo)
G	General Aviation

Radio Plug

Radio Plug
See pages 54-57

— Cable

Cable		
code	cable	length
K	coiled	3 feet
0XX	straight	XX inches*
X	straight	X feet*

*straight cable not available with all radios

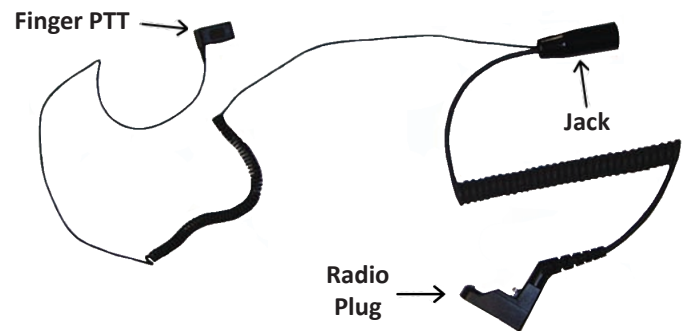
Finger PTT Adapter

CI

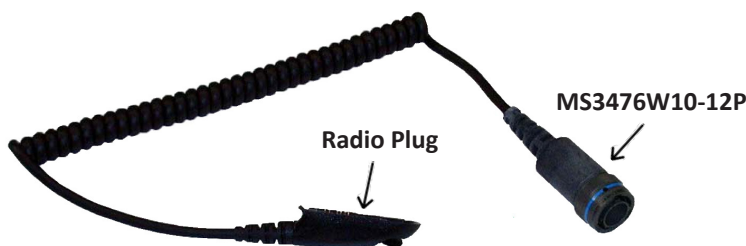
Jack	
code	description
92	U-92A/U (civil helo)
GJ	General Aviation

Radio Plug

Radio Plug
See pages 54-57



Adapter for Connection to Aircraft using NAT A34-300 Mixer



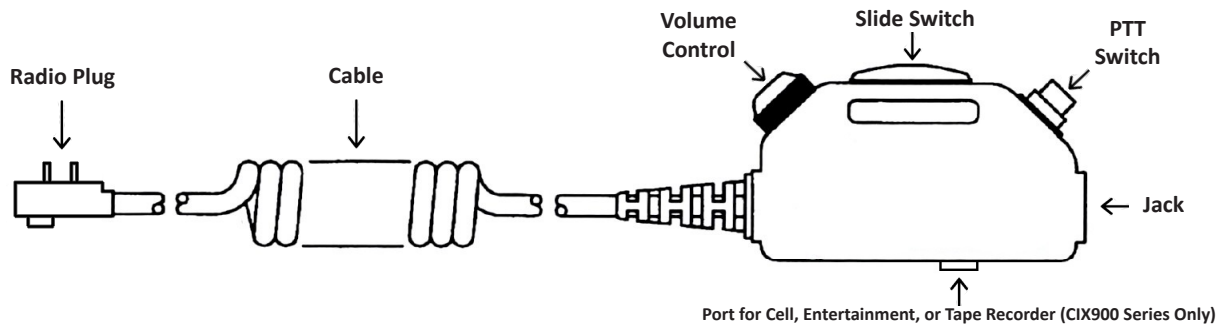
CI

Radio
see pages 54-57

— K — 10W/37

Mike Hi	to G
Mike Lo	to F
Mike Key #1	to B
Mike Key #2	to C
Phones Hi	to E
Phones Lo	to D
+28 VDC	to J
Ground	to A
Not connected	H

Interfaces for Portable Radios



CIX Case & Clip Switch Config Jack Radio Plug — **K**

Case & Clip				
code	color	profile	rotating	
1	black	large	yes	
C		low		
2		none	-	
4	beige	large	yes	
F		low		
7	blue	large	yes	
8		low		
9	gray	large	no	
A		none	-	
R	red	large	no	
S		none	-	
D	olive drab	large	no	
E		none	-	

Switch Configuration	
code	description
0	XMIT mom-mom
1	XMIT PTT

Jack	
code	description
none	TJT-120 (civil helo)
B	TJT-125 (5 contacts)
C	CIJ-051
F	U-61/U (USFS)
G	CIJ-055 & CIJ-068 (GA)

Radio Plug
see pages 54-57

with Adapter for Low Impedance Military Headset

CIXAT Shielding Case Switch Config Radio Plug Volume Control Cable

Shielding	
code	description
none	adjustable amp & shielded transformer
S	shielded amp & transformer

Case
see above

Switch Config
see above

Radio Plug
see pages 54-57

Volume Control
see above

Cable
see above

with Port for Cell Phone, Entertainment, or Tape Recorder

CIX9 Case Switch Config Radio Plug Volume Control Cable

Case
see above

Switch Configuration				
code	Slide Switch			PTT Switch
	back	center	forward	
0	mom (XMIT)	cell (1)	mom (XMIT)	none
1	no slide switch ~ cell always on			ICS
2	mom (XMIT)	off	lock (cell on)	none

Radio Plug
see pages 54-57

Volume Control
see above

Cable
see above

(1) Cell phone always on

Motorola Radio Plugs

CI P/N: ICMK



TalkAbout 200, 250, Distance
and Distance DPS

*Also used on ICOM, Maxon/Legacy, Vertex, and Ritron

CI P/N: M2



FRS/GMRS: FR50, FR60, Spirit GT, Spirit GT Plus
TalkAbout: T270, T280, T289, T5100, T5200, T5300,
T5320, T5400, T5410, T5420, T5600, T5620, T5700,
T5720, T5800, T5920, T5950, T6200, T6210, T6220,
T6250, T6300, T6400, T7200

CI P/N: JD



XTS1500, XTS2250, XTS2500, XTS3000, XTS3000,
Astro, XTS3500, XTS5000, XTS5100, XTS7700,
HT1000, JT1000, MT1500/2000/6000, MTS2000,
MTX8000, MTX838, MTX900, MTX9060, MTX-LS,
PR1500, GP900 & GP9000

*Also used on EF Johnson

CI P/N: HT



HT750, HT1250, HT1250LS, HT1550, HT1550XLS,
MTX850, MTX850LS, MTX950, MTX960, MTX8250,
MTX8250LS, MTX9250, PRO5150, PRO5350, PRO5450,
PRO5550, PRO5750, PRO7150, PRO7350, PRO7450,
PRO7550, PRO7750, PRO9150, PTX760, PTX780, GP140,
GP320, GP328, GP339, GP340, GP360, GP380, GP600,
GP640, GP650, GP680, GP1280

*Also used on HYT TC980

CI P/N: AST



Astro Digital
XTS-2000/-3000/-3500/
-5000, PR-1500

CI P/N: M3



Motorola Visar Series

CI P/N: MT1



MTH500, MTH650, MTH800,
MTH850, MTP850

CI P/N: SBR



Sabre

CI P/N: HT1



HT-600, MT-1000

CI P/N: LTS



LTS-2000, GP-300, CP-200

CI P/N: MT2



MTH650, MTH800
Falcon Series: i205, i305, i315, i325,
i530, i703, i710, i830, i860
Nextel Cup Series Driver Phones

Bendix King (Relm) Radio Plugs

CI P/N: K1



RPV416, RVP516, RPU499, RVP599X,
RPV516A, RVP559A Plus, RPU416A,
RPU499A Plus, RPU4200

*Also used on Kenwood and HYT/HYTERA radios

CI P/N: EPH



EPH, LPH, DPH, GPH Series

CI P/N: M5



RPV3000, RVP3600, RVP7500,
RPU3000, RVP3300C, RVP-360

*Also used on Kenwood and HYT/HYTERA radios

CI P/N: M1



RP6500

*Also used on Kenwood and HYT/HYTERA radios

CI P/N: KNG



P150, P400, P500, P800

ICOM Radio Plugs

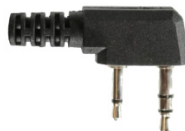
CI P/N: ICM4



Aviation: A-5 & A-23

*Also used on Kenwood and HYT/HYTERA radios

CI P/N: ICMK



Unkeyed: IC-F3, IC-F3S, IC-F4, IC-F4S, IC-F10, IC-F20,
IC-H2, IC-H6, IC-J12, IC-MS, IC-U12, IC-U16, IC-F30G,
IC-F31, IC-E4TR, , IC-4008, IC-4088A, all dual comm
in amateur radios

Keyed: BC100, IC-F3G, IC-F3GS, IC-G3GT, IC-F4G, IC-F4GS, IC-F43GS,
IC-F43GT, IC-F43TR, IC-F11, IC-F11S, IC-F14, IC-14S, IC-F15, IC-F21,
IC-F21S, IC-F22, IC-F24, IC-F24S, IC-F31, IC-F33, IC-F43, IC-F3001,
IC-F3011, IC-F3021, IC-F3021S, IC-F4001, IC-F4011, IC-F4021, IC-F4021S,
IC-F4021T

Aviation: A-3, A-4, A-6, A-14, A-20, A-24

*Also used on Motorola, Maxon/Legacy, Vertex, and Ritron radios

CI P/N: S1



IC-F3G, IC-F3GS, IC-F4G, IC-F4GS, IC-F11, IC-F21
IC-F21, IC-F14, IC-F14S, IC-F24, IC-F24S, IC-F31,
IC-F33G, IC-F43G, IC-F43TA, SC-100, IC-F3001,
IC-F3011, IC-F3021, IC-F3021F, IC-F3021T, IC-F4001,
IC-F4011, IC-F4021, IC-4021T, IC-F4101, IC-F4041,
IC-F3101, IC-F3041

CI P/N: S2



IC-F3261, IC-F4261, IC-F9011, IC-F9021

CI P/N: S4



IC-F50, IC-F51, IC-F60, IC-F61, IC-F30G, IC-F30GT, IC-F30GS,
IC-F31GS, IC-F31GT, IC-F40G, IC-F40GS, IC-F40GT, M87/88
IC-F3061 Series, IC-F4061 Series, IC-F3161 Series, IC-F4101
Series, IC-F31, IC-F2HG, IC-FSOV, IC-F70DT & IC-F80D

Kenwood Radio Plugs

CI P/N: K1



TK-208, 220, 240, 240D, 248, 250, 260, 260G, 270,
270G, 308 TK-340, 340D, 348, 350, 353, 360, 360G,
370, 370G, 372G, 430, 431 TK-2100 (Pro Talk), 2102
(Pro Power), 2130 (Pro Talk XLS), 2160 TK-3100 (Pro
Talk), TK-3101 (Free Talk XL), TK-3102 (Pro Power),
TK-313 (Pro Talk XLS), 3131 (Free Talk XLS), 3160

*Also used on Relm and HYTERA radios

CI P/N: ICM4



TK-280, TK-290, TK-380, TK-385,
TK-390, TK-480, TK-481, TK-2041
TK-2140, TK-3140, TK-3148

Maxon/Legacy Radio Plugs

CI P/N: M2



PI1145, PL2215,
PL24125, PL22445,
SL25, SL55, SP120,
SP130, SP140, SP100,
All Cobra 2 pins radios

*Also used on Motorola, Vertex,
and Ritron radios

CI P/N: MA1



SL25, SP55, SP100,
SP120, SP130, SP140,
PL1145, PL2215,
PL24125, PL2245, PI2441

CI P/N: MA2



SL100, SP200, SP200K,
SP210L, SP200K, PL1145,
PL2245, PL2215P, PL2245P,
PL2415, PL2445, PL5151,
PL5161, PL5164, TruTalk,
MURS-22/25

Vertex Radio Plugs

CI P/N: V1



Two Screws: VX130, VX160, VX180, VX210,
VX210A, VX400, VX410, VX420, VX340, VX451,
VX454, VX458, VX230, VX231, VX350, VX351,
VX450, VX426

CI P/N: V3



Single Mounting Screw: VX-10, VX130, VX160,
VX180, VX210, VX210A, VX300, VX400,
VX410, VX420, VX384, VX451, VX454, VX458,
VX230, VX231, VX350, VX351, VX450, VX451,
VX454, VX458, VX428

CI P/N: V4



MH-360M, MH450M, MH5027Z,
VH-110, VH-115M, VH-120, VH-130,
VH-215M, VH-225M, VX500, VX510,
VX520, VX600, VX800, VX900

CI P/N: Y6



VX820, VX821, VX829, VX920,
VX921, VX924, VX929, VX871,
VX874, VX879, VX971, VX974,
VX979, VXD720, VTX720

Sepura Radio Plugs

CI P/N: SP



SRP2000,
SRP3000,
SRH3500,
SRH3800

CI P/N: SP1



SRP2000,
SRP3000,
SRH3500,
SRH3800

CI P/N: SP2



SRP2000,
SRP3000,
SRH3500,
SRH3800

CI P/N: SP3



SRP8000

Ritron Radio Plug

CI P/N: ICMK



Patriot, RTX, SST, Jobcom,
JMX, MBX

*Also used on Motorola,
Vertex, and ICOM radios

Simoco Radio Plug

CI P/N: SC1



Simoco SRP Series

Tait Radio Plugs

CI P/N: T1



TP8110, TP8115, TP88120,
TP8135, TP8140, TP7110

CI P/N: T2



TP8100, TP9100

HYT Radio Plugs

CI P/N: H1



HYT2100, TC500, TC600,
TC610, TC620, TC700,
TC2100

*Also used on Relm and Kenwood radios

CI P/N: H1S



Hytera PD70X and
Hytera PD78X Series

CI P/N: H3



HYT2100, TC500, TC600,
TC610, TC620, TC700,
TC2100

CI P/N: K1



TC620, TC700EX

*Also used on Relm and Kenwood radios

CI P/N: HT



TC980

*Also used on Motorola radios

CI P/N: M5



TC610P,
TC780

*Also used on Motorola radios

Harris M/A Com Radio Plugs

CI P/N: MCZ



JAGUAR 700P, P5100, P5130, P7100,
P7130, P7150, P7170

CI P/N: MC1



PLE200, PRISM

CI P/N: MC3



P5300 Series, P5400 Series, P7300
Series, UNITY XG-75

CI P/N: XG



UNITY XG-100

Midland Radio Plugs

CI P/N: MD1



LXT210, LXT216, LXT303, LXT305, LXT310, LXT410,
LXT420, LXT435, G225, G300, GXT250, GXT325,
GXT310, GXT400, GXT450, GXT500, GXT550,
GXT565, GXT600, GXT650

CI P/N: MA1



LTX410, GXT500, GXT710

*Also used on Maxon radios

Tekk Radio Plug

CI P/N: M1



XU100, XV100, XU1000, XV1000

*Also used on Motorola and Relm radios

EF Johnson Radio Plug

CI P/N: JD



51SL, 5000 Series, 5100 Series,
7700 Series, Multi-net Ascend

*Also used on Motorola radios

Radio Connectors

HIROSE
add to p/n: HR6P



NEXUS
add to p/n: TPM



RJ45
add to p/n: RJ45



2 Contact 2.5mm

add to p/n: 2.5



add to p/n: 2.5R



3 Contact 2.5mm

add to p/n: 2.5



add to p/n: 2.5R



2 Contact 3.5mm

add to p/n: 3.5



add to p/n: 3.5R



3 Contact 3.5mm

add to p/n: 3.5



add to p/n: 3.5R



Adapter Connectors

For use with Motorola (JD) Jedi Radios

Also used on EF Johnson Radios



GP300, GP9000, HT1000, JT1000, MT2000, MTS2000,
MT6000, MTX838, MTX900, MTX1000, MTX8000,
MTX9000, MTX-LS, XTS2000, STX2500, STX3000,
XTS3500, STX5000/5100/7700

EF Johnson Series: 5100/5700 series, 511X, 512X, 518X

TC3.5-JD Adapts cables with threaded 3.5mm plug

TCHR6S-JD Adapts cables with six pin Hirose* plug

*Please note - not all manufacturers wire plugs are the same.

Adapter Connectors

For Use with Motorola (M7) Radios



XPR6100, XPR6300, XPR6350, XPR6500, XPR6550, APX7000

TC3.5-MJ Adapts cables with threaded 3.5mm plug

TCM1-M7 Adapts cables with two pin (M1) Motorola plug

TCHR6S-M7 Adapts cables with six pin Hirose* plug

For Use with Harris Unity XG-100 Radios



TCHR6S-XG Adapts cables with six pin Hirose* plug

For Use with Motorola (HT) Radios

Also used on EF Johnson Radios



HT750, HT1250, HT1250LS, HT1550, HT1550XLS,
MTX850, MTX850LS, MTX950, MTX960, MTX8250, MTX8250LS, MTX9250,
PRO5150, PRO5350, PRO5450, PRO5550, PRO5750, PRO9150,
PTX700, PTX760, PTX780,
GP140, GP320, GP328, GP329, GP338, GP339, GP360, GP380, GP600, GP640, GP650, GP680, GP1280

TC3.5-HT Adapts cables with six pin Hirose* plug

TCM1-HT Adapts cables with two pin (M1) Motorola plug

TCHR6S-HT Adapts cables with six pin Hirose* plug

For Use with Kenwood (K2) Radios



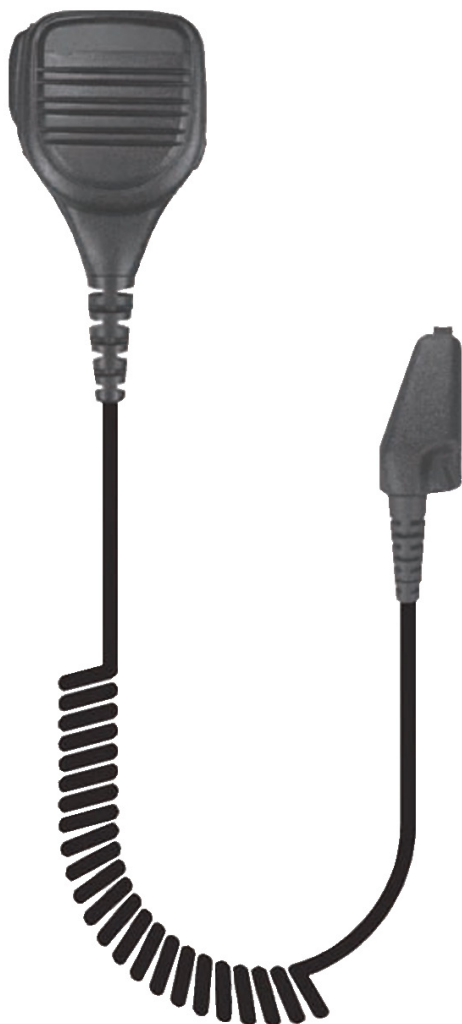
TK-280, TK-290, TK-380, TK-480, TK-481, TK-2041, TK2140, TK3140, TK-3148

TC3.5-K2 Adapts cables with six pin Hirose* lug

TCHR6S-K2 Adapts cables with two pin (M1) Motorola plug

*Please note - not all manufacturers wire plugs are the same.

Speaker Microphone



- Loud and clear sound
- Robust design
- Environmental PU cable

TCSM Type — Connector

code	duty	emergency button	audio jack
L	light	no	2.5mm listen only
M1	medium		3.5mm listen only
M2	medium		3.5mm listen & talk
M3	medium	yes	3.5mm listen & talk
H	heavy	no	3.5mm listen & talk

Connector

See pages
58-59

Light Duty	
Technical Specifications	
Speaker	
Dimension	45.0mm
Impedance	32 Ohm $\pm$ 15% at 1000Hz
Rated input power	500mW
Maximum output power	1 W
Sound Pressure Level	86 $\pm$ 4dB at 1000Hz
Microphone	
Type	Electret Condenser Microphone
Impedance	2.2 kOhm
Sensitivity	-37 $\pm$ 3dB at 1000Hz (0dB=1V/Pa)
Operating Voltage	1.1-10 VDC

Medium Duty	
Technical Specifications	
Speaker	
Dimension	45.0mm
Impedance	80 Ohm $\pm$ 15% at 1000Hz
Rated input power	500mW
Maximum output power	1 w
Sound Pressure Level	103 $\pm$ 4dB at 1000Hz
Microphone	
Type	Electret Condenser Microphone
Impedance	2.2 kOhm
Sensitivity	-36 $\pm$ 3dB at 1000Hz (0dB=1V/Pa)
Operating Voltage	1.1-10 VDC

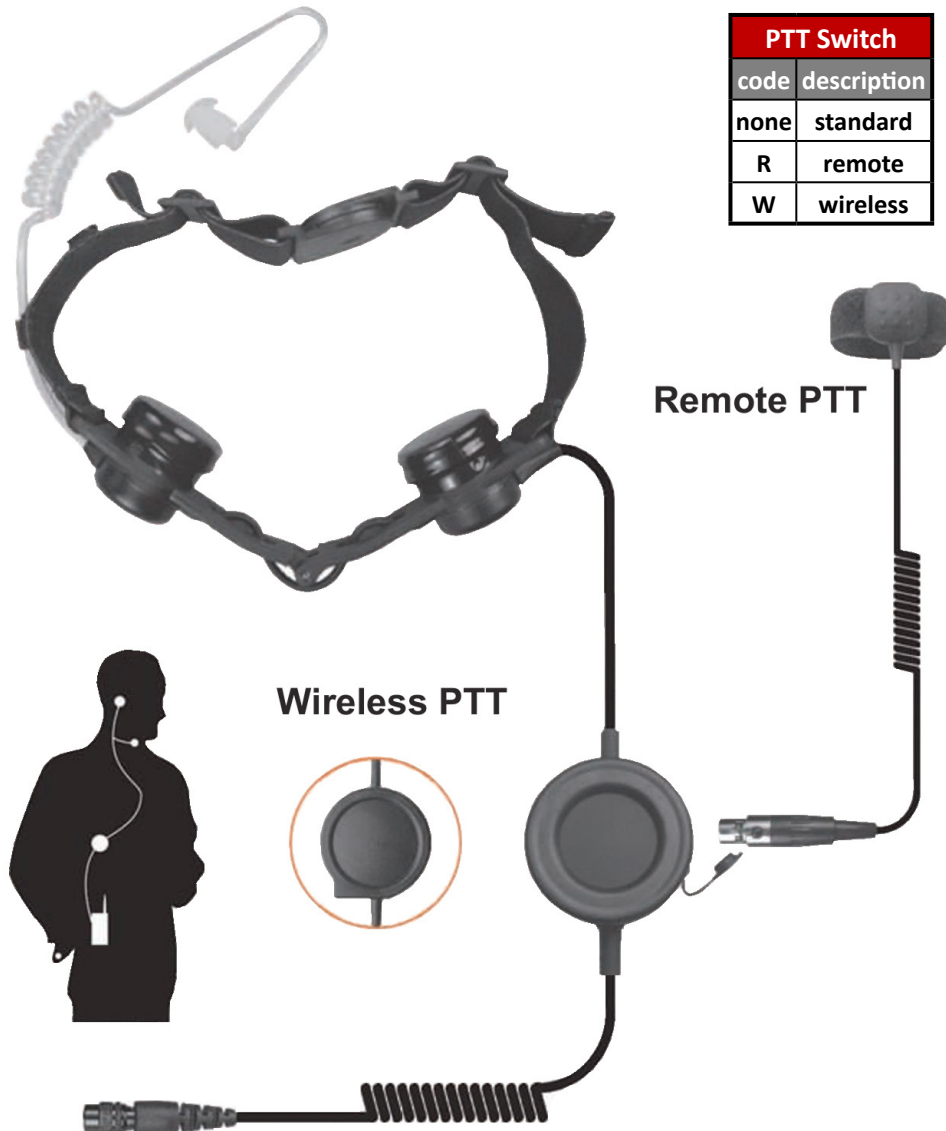
Heavy Duty	
Technical Specifications	
Speaker	
Dimension	45.0mm
Impedance	80 Ohm $\pm$ 15% at 1000Hz
Rated input power	500mW
Maximum output power	1W
Sound Pressure Level	88 $\pm$ 3dB at 2V, 0.5m
Microphone	
Type	Electret Condenser Microphone
Impedance	2.2 kohm
Sensitivity	-40 $\pm$ 3dB at 1000Hz (0dB=1V/Pa)
Operating Voltage	1.1-10 VDC

Heavy Duty Throat Mic

- Waterproof wireless PTT
- Excellent intelligent capability
- Great noise cancellation capability
- Rugged design
- Kevlar reinforced cable
- Comfortably works with breathing masks, tactical and motorcycle helmets
- Applicable for SWAT, police, military, and mission control

Technical Specifications	
Speaker	
Dimension	16.2* 10.6mm
Impedance	250±500hm
Sound Pressure Level	104±3dB at 1000Hz
Microphone	
Type	Electric Condenser Microphone
Impedance	2.2 kOhm
Sensitivity	-40±3dB at 1000Hz(0dB=1V/Pa)
Operating Voltage	1.1-10VDC
PTT	
Dimension	14.8mm(Max), 52.5mm in length

TCTM2		PTT	Connector
			
PTT Switch		Connector	
code	description	See pages 58-59	
none	standard		
R	remote		
W	wireless		



Plugs, Jacks & Connectors

For Use with Kenwood (K2) Radios



JJ-055 Jack

Mil-P-642/8-1
NSN 5935-00-636-6602



U-172/U Jack

NSN 5935-00-665-7599



U-173U/U Plug

NSN 5935-00-888-5351



U-172A/U Jack

w/ lock



PJ-292 Plug

NSN 5935-00-192-4756

JJ-055 Jack

For Small diameter cable

JJ-055 Jack

Weather resistant strain relief
for U-172/U or U-179A/U

Three Conductor Microphone Connectors



JJ-055 Jack

mating connectors are two MP-103 plugs
& one MJ-103 or MJ-113 Jack



MJ-103 Locking Jack



MP-103 Plug

MJ-113 Jack

Miniature AP-107 Waterproof Connectors

AJ-117PM	Front Panel Mount Jack
AJ-117PMDC	Rear Panel Mount Jack
AJ-117PLR	Rear Panel Mount Jack w/ Locking Ring
AP-117PLR	Rear Panel Mount plug w/ Locking Ring
AJ-117PMBS	Front Panel Mount Jack w/ Back Shell
AJ-117BR	Waterproof Jack w/ Wire Strain Relief
AP-117OM	Plug Over Mold Version
AP-117OMS	Shielded Plug

AP-117BR	Plug w/ Wire Strain Relief
AJ-117BRXL	Jack w/ Wire Strain Relief & Solder Terminals
AP-117BRXL	Plug w/ Wire Strain Relief
AP-117LR-AL	Plug w/ Locking Ring
AJ-117LR-AL	Jack w/ Locking Ring
AP--117OM	Jack Over Mold Version
AJ-117OMS	Shielded Jack

MIL-C-10544 Ten Contact Connectors



U-78/U Cable Installed Receptacle
U-79/U Panel Mount Receptacle



U-77/U Plug
U-161/U Plug
U-127 Right Angle Plug

Lemo Six Conductor Connectors (Bose ANR Headset)



CIJLPM-06
Panel Mount Jack

Part No.	Cable OD
CIJLPM-06	n/a
CIJLPM-06-150	.10"-.15"
CIJLPM-06-195	.15"-.20"
CIJLPM-06-241	.20"-.25"



CIJL-06
Cable Installed Jack

Part No.	Cable OD
CIJLPM-06-150	.10"-.15"
CIJLPM-06-195	.15"-.20"
CIJLPM-06-241	.20"-.25"



CIPL-06
Plug

Part No.	Cable OD
CIJLPM-06-150	.10"-.15"
CIJLPM-06-195	.15"-.20"
CIJLPM-06-241	.20"-.25"

Hirose Six Conductor Connectors



CIJPM-HRS-6S
Panel Mount Jack



CIJ-HRS-6S
Cable Installed Jack



CIP-HRS-6P
Plug

Hirose Ten Conductor Connectors (David Clark ANR Headset)



HR10A-10R-10S
Panel Mount Jack



HR10A-10J-10S
Cable Installed Jack



HR10A-10P-10P
Plug

MIL-C-9177 Four Conductor Connectors

Jack/Switch



U-94A/U

Jack w/ NO PTT Switch
MIL-C-9177/5-2
p/n M9177/5/2
NSN 5935-00-518-8843
or 5835-00-553-9352

U-94-DPDT

Jack w/ DPDT PTT Switch



CIPX304BBIB

3 NO PTT switch
three contact normally open
MIL-S-8805
p/n MS25089-4B

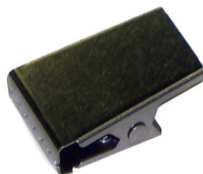
CIPX304BBIB

double pole double throw
MIL-S-8805
p/n MS25089-7B



Strain Relief

CISR94-180 cable OD .180" or less
CISR94-195 cable OD .181" to .195"
CISR94-241 cable OD .195" to .245"



CIPLP-94

Jack w/ DPDT PTT Switch

Plugs



U-174/U

MIL-C-9177/2-1
NSN 5935-00-246-2383



U-93A/U

MIL-C-9177/1-1
NSN 5935-00-642-0626



TP-120

commercial version
of the U-174/U

Cable Installed Jacks



U-92A/U

MIL-C-9177/3-1
B\NSN 5935-00-642-0626



TJ-101

commercial jack



CIG-1531-8 Grommet

U-93A/U Plug or U-92A/U Jack
NSN 5935-00-642-0626

Threaded Front Panel Mount Jacks



TJT-120

TJGT-120

(w/ normally open switch)

TJST-120

(w/ normally closed switch)



TJT-120

MIL-C-9177/4-1
P/N 9177/4-1



TJT-120TSL-M1

w/ "toilet seat lid"

CIJC-0181

w/ "toilet seat lid"

CINUT-120-1 Hex Nut

CIWSH-120-3 Star Washer

Flanged Rear Panel Mount Jacks



TJ-120 w/o screws

TJ-120S w/ screws

TJGT-120 w/ no switch

TJST-120 w/o n/c switch

MIL-C-22442 Four Conductor Connectors



U-64/U Jack
MIL-C-22442/4-1



U-75/U JPlug
MIL-C-22442/5-1



CISRH-180
Cable OD .180" or less

U-61TFR

MIL-C-22442/4-2
Jack with 8 to 600 ohm
impedance transformer

U-75TFR

MIL-C-22442/5-2
Jack with 8 to 600 ohm
impedance transformer

CISRH-195

Cable OD .181" to .195"

CISRH-241

Cable OD .195" to .245"

MIL Spec Five Conductor Connectors



TJS-105
Jack w/ 3 NO PTT switch



U-385/U Jack
MIL-C-641/22-1



U-384/U Plug
MIL-C-642/14-1
NSN 5935-00-026-0914

TJS-105 DPDT

Jack w/ DPDT PTT switch

See Jack/Switch for
information on spare
parts and accessories.



TJT-125M
Panel mount jack four solder
lugs & threads fifth contact
(nut & washer included)

TJT-105

Panel mount jack
five solder lugs

NATO Four Conductor Connectors



CINJS-3NO
Jack w/ 3 NO PTT switch



10H-18574 Jack
AM-626



10H-18575 Plug
AM-671

CINJS-DPDT

Jack w/ DPDT PTT switch



10H-18574PM Jack
Panel mount jack



CINPS-96300
Shroud for Plug

CINPLG-626

Cover for NATO Jack,
Chain Lanyard

General Aviation Phones (Mono) Connectors



CIJPM-055

Panel Mount Jack
JJ-034, M641/6-1
(Switchcraft p/n 120)
nut & washer included



CIJPM-055TLS

Panel Mount Jack w/ "toilet
seat lid", 2 nuts & washer

CIJC-515

Toilet seat lid also used with
CIJPM-068 & CIPM-051



CIPF-055 Flat Profile Plug

w/ solder terminals
(Switchcraft p/n 227)

CIPF-055W Flat Profile Plug

w/ screw terminals
(Switchcraft p/n 220)

CIPF-055S Flat Profile Shielded Plug

w/ solder terminals
(Switchcraft p/n 230)

CIPRA-055 Right Angle Shielded Plug

(not shown)
w/ solder terminals
(Switchcraft p/n 226)



PJ-055B Plug

MIL-P-642/4-1
(Switchcraft p/n 440)

CIPC-055 Commercial Plug

w/ solder terminals
(Switchcraft p/n 250)

CIPC-055W Commercial Plug

w/ screw terminals
(Switchcraft p/n 240)

CIPC-055S Shielded Plug

w/ solder terminals
(Switchcraft p/n 280)

CIPC-055SW Shielded Plug

w/ screw terminals
(Switchcraft p/n 240)

CIPJ-055S Shielded Jack

w/ solder terminals
(Switchcraft p/n 121)

CIJ-055SW Shielded Jack

w/ screw terminals
(Switchcraft p/n 120)



CIPJ-055 Commercial Jack

w/ solder terminals
(Switchcraft p/n 121)

CIJ-055W Commercial Jack

w/ screw terminals
(Switchcraft p/n 120)

General Aviation Microphone Connectors



CIJPM-068

Panel Mount Jack
JJ-033, M641/6-1
(Switchcraft p/n S12B)
nut & washer included



CIPF-0068W Flat Profile Plug

w/ screw terminals
(Switchcraft p/n S230)



PJ-068 Plug

MIL-P-642/5-1
(Switchcraft p/n 480)

CIPC-068 Commercial Plug

w/ solder terminals
(Switchcraft p/n 267)

CIPC-068W Commercial Plug

w/ screw terminals
(Switchcraft p/n 260)

CIJPM-068TLS

Panel Mount Jack
w/ "toilet seat lid"
nut & washer included



CIJ-055W Commercial Jack

w/ screw terminals
(Switchcraft p/n S830)

Commercial Aviation or GA (Stereo)



CIJPM-051

Panel Mount Jack
(Switchcraft p/n 12B)
nut & washer included

CIJPM-051B

Panel Mount Jack
w/ "toilet seat lid"
nut & washer included



CIPF-051 Flat Profile Plug

w/ solder terminals
(Switchcraft p/n 227)

CIPF-051W Flat Profile Plug

w/ screw terminals
(Switchcraft p/n 2230)

CIPF-051S Flat Profile Shielded Plug

w/ solder terminals
(Switchcraft p/n 238)



PJ-051B Plug

MIL-P-642/2-1
(Switchcraft p/n 483)

CIPC-051 Commercial Plug

w/ solder terminals
(Switchcraft p/n 267)

CIPC-051W Commercial Plug

w/ screw terminals
(Switchcraft p/n 2460)

CIPC-051S Shielded Plug

w/ solder terminals
(Switchcraft p/n 297)

CIPC-051SW Shielded Plug

w/ screw terminals
(Switchcraft p/n 290)



U-94A/U

for use with cable less than .180" or less on
PJ-055B, CIPC-055,
CIPS-055W, CIJ-055,
CIJ_055W, PJ-068,
CIPS-068, CIPS-068W,
CIJ-068W, PJ-051B,
CIPC-051, CIPC-051W,
CIJ-051 or CIJ-055W

CIPRA-051 Right Angle Shielded Plug

(not shown)

w/ solder terminals
(Switchcraft p/n 226)



CIPJ-051S Shielded Jack

w/ solder terminals
(Switchcraft p/n 131)

CIJ-051SW Shielded Jack

w/ screw terminals
(Switchcraft p/n 130)

CIPJ-051 Commercial Jack

w/ solder terminals
(Switchcraft p/n 838)

CIJ-051W Commercial Jack

w/ screw terminals
(Switchcraft p/n 830)

Six or Eight Conductor Biaxially Shielded Connectors



TJ-108 Tempest Jack

TJ-108PM Panel Mount



TJS-108 w/ switch

TJSS-108 w/ two switches



TP-108 Tempest Plug Eight Contacts

MIL-C-26482 Six Conductor Connectors



Strain Relief

use with the MS3116A10-6P

CISR6P-180 cable OD .180" or less
CISR6P-195 cable OD .181" to .195"
CISR6P-241 cable OD .195" to .245"



PS3116A-6P Plugs

commercial version



M85049/51-10W

Right Angle Backshell
 use with the MS3476W10-6P
 or MS3116A10-6P

Strain Relief

use with the MS3116A10-6P
 or PT06A-10-6P

CISR10PA-180 cable OD .180" or less
CISR10PA-195 cable OD .181" to .195"
CISR10PA-241 cable OD .195" to .245"



Backshell CIBS-6W

use with strain relief and the
 MS3476W10-6P plug to
 enhance electromagnetic
 interference protection



MS3476W10-6P Plugs

MIL-C-26482 Series II
 OD green finish



MS3111F10-6S Receptacle

MIL-C-26482 Series I (solder)
 with strain relief



MS3111F10-6S Receptacle

MIL-C-26482 Series I (crimp)
 with strain relief



MS3476L-10-6P Plugs

MIL-C-26482 Series II
 chrome finish



MS3112E10-6S Receptacle

MIL-C-26482 Series I (solder)
 rear panel mount

Bend Reliefs

use with MS3116F10-6P,
 MS33116F10-6S,
 MS3116F106S,
 or MS3112E12-10S



MS3114E10-6S Receptacle

MIL-C-26482 Series I (solder)
 rear panel mount



CISB-6P Polyurethane

for cable OD .260" or less



MS3116F10-6P Plugs

MIL-C-26482 Series I
 with strain relief clamp

MIL-C-26482 Ten Conductor Connectors



Strain Relief

use with the MS3476W12-10P
or MS3476L12-10P

CISR10PA-180 cable OD .180" or less
CISR10PA-195 cable OD .181" to .195"
CISR10PA-241 cable OD .195" to .245"



EMI Backshells

use with the
MS3476W12-6P
and strain relief



MS3476L12-10P Plugs

MIL-C-26482 Series II
chrome finish



MS3112E12-10S Receptacle

MIL-C-26482 Series I (solder)

MS3122E12-10S Receptacle

MIL-C-26482 Series I (crimp)
front panel mount



M85049/51-1-12W

Right Angle Backshell
use with the
MS3476W12-10P



MS3476W12-10P Plugs

MIL-C-26482 Series II
OD green finish

MIL-C-38999 Series 3 Connectors



Strain Relief

use with the D38999/WB35PN
or D38999/WB98PN

CISR6PA-180 cable OD .180" or less
CISR6PA-195 cable OD .181" to .195"
CISR6PA-241 cable OD .195" to .245"



CIBS-D35 EMI Backshells

for D38999/26WB-35PN &
D38999-26WB-98N Plug



D38999/26WB35PN Ten Contact Plug

for connecting headsets in the
RAF C-130 & NATO C-27 aircraft

D38999/26WB98PN Six Contact Plug

for connecting emergency oxygen
masks in the FAR C-130

Adapter & Extension Cable Assemblies

Jacks



10H-18574 (AM626)
NATO European Military



TJ-101
Helicopters & Military



U-92A/U
Helicopters & Military



CIJ-051
Commercial Aviation



CIJ-055 & CIJ-068 (mono)
CIJ-051 & CIJ-068 (stereo)
General Aviation (GA)



CIJ-055 & CIJ-068 "Y" (mono)
CIJ-055 & CIJ-068 "Y" (stereo)
General Aviation (GA)



TJ-106 or TJ-108
Biaxially Shielded



U-61/U
US Navy & Forest Service



U-385/U
Five Conductor



HR10A-10J-10S
David Clark ANR Headset
(10 contact Hirose Socket)



CIJ-HRS-6S
2nd Gen Bose Headset
(6 contact Hirose Socket)



CIJL-06
Bose X Headset
(6 contact Lemo Socket)

Jack	
Code	Description
TJ	TJ-101
92	U-92A/U
NJ	NATO
YJ	GA "Y" mono
YJS	GA "Y" stereo
GJ	GA case mono
GJS	GA case stereo
J3	CIJ-051
85	U-385/U
61	U-61-U
J6	TJ-106
J8	TJ-108
JX	Bose X
JN	2nd Gen Bose
JD	DC ANR

CI	Jack	Plug	Cable
Plug			
Code	Description	Code	Description
74	TP-120	YPM	GA mil spec mono
74M	TP-120	YPMS	GA mil spec stereo
93	U-93A/U	YP	GA comm'l mono
51	CIPC-051	YPS	GA comm'l stereo
51M	PJ-051B	YKM	GA mil spec mono w/ key
84	U-384/U	YKMS	GA mil spec mono w/ key
75	U-75/U	YK	GA mil spec stereo w/ key
P6	TP-106	YKS	GA mil spec stereo w/ key
P8	TP-108	PX	Bose X
NP	NATO	P2	2nd Gen Bose
NPS	NATO s/shroud	PD	D Clark ANR
NPSE	NATO s/shroud & epoxy encapsulation		

Straight Cable	
code	length
OXX	xx inches
X	x feet

Coil Cable		
code	retr'd	extended
K2	5"	2-3 ft
K3	12"	3-5 ft
K6	18"	6-9 ft
K10	6"	10-14 ft
K15	45"	15-20 ft

Adapter & Extension Cable Assemblies

Plugs



T-120 or U-174/U
Helicopters & Military



TP-120 overmold
Helicopters & Military



U-93A/U
Helicopters & Military



PJ-055B & PJ-068 (Mil spec)
PJ-051B & PJ-068 (stereo)
General Aviation (GA)

CIPC-055 & CIPC-068 (commercial)
CIPC-051 & CIPC-068 (stereo)
General Aviation (GA)



PJ-051B or CIPC-051
Commercial Aviation (GA)



U-384/U
Five Conductor



U-75/U
US Navy & Forest Service



TJ-106 or TJ-108
Biaxially Shielded



CIJL-06
Bose X Headset



CIP-HRS-6P
2nd Gen Bose Headset



HR10A-10P-10P
David Clark ANR Headset



10H-18575 (AM671)
NATO European Military



10H-18575 overmolded
NATO European Military



10H-18575 w/ Shroud
NATO European Military

Cable



*unless otherwise specified

Straight cable measured from inside jack to inside plug.

Passive Noise Attenuation



CIH-1

Color

0

Comms

Color		
code		color
0		black
1		pink
2		red
3		yellow
4		blue
5		gray

Comms		
code		description
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug

* General Aviation headsets are fitted with straight cable (150cm~4ft) NRR 29dB

Ultra Lightweight

CIH-400

Comms

Comms		
code		description
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug



9oz (225g)

Active Noise Reduction

CIH-1

Color

0

Comms

R

Color		
code		color
0		black
1		pink
2		red
3		yellow
4		blue
5		gray

Comms		
code		description
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug



*** General Aviation headsets are fitted with straight cable (150cm~4ft) NRR 29dB**

Aircraft or Battery Powered

CIH-1

Color

1

Comms

R

Color		
code		color
0		black
1		pink
2		red
3		yellow
4		blue
5		gray

Comms		
code		description
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug



Ultra Lightweight ANR

Comms
CIH-400 **R**

Comms		
code	description	
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug



Aircraft or Battery Powered

Comms
CIH-401 **R**

Comms		
code	description	
H	<u>Civil</u> <u>Helo</u>	Electret mic 300 ohm phones U-174 type plug
G*	<u>General</u> <u>Aviation</u>	Electret mic 300 ohm phones GA dual plugs
N	<u>Euro</u> <u>NATO</u>	150 ohm dyn. mic 300 ohm phones NATO plug
M	<u>Military</u>	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	<u>Mil</u> <u>spec</u>	M-101/AIC mic H-143/AIC phones U-174/U plug



Battery Powered Lightweight ANR with Bluetooth



Comms

CIH-402 **R**

Comms		
code	description	
H	Civil Helo	Electret mic 300 ohm phones U-174 type plug
G*	General Aviation	Electret mic 300 ohm phones GA dual plugs
N	Euro NATO	150 ohm dyn. mic 300 ohm phones NATO plug
M	Military	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	Mil spec	M-101/AIC mic H-143/AIC phones U-174/U plug

Aircraft or Battery Powered

Comms

CIH-403 **R**

Comms		
code	description	
H	Civil Helo	Electret mic 300 ohm phones U-174 type plug
G*	General Aviation	Electret mic 300 ohm phones GA dual plugs
N	Euro NATO	150 ohm dyn. mic 300 ohm phones NATO plug
M	Military	5 ohm dyn. mic 19 ohm phones U-174/U type plug
MS	Mil spec	M-101/AIC mic H-143/AIC phones U-174/U plug



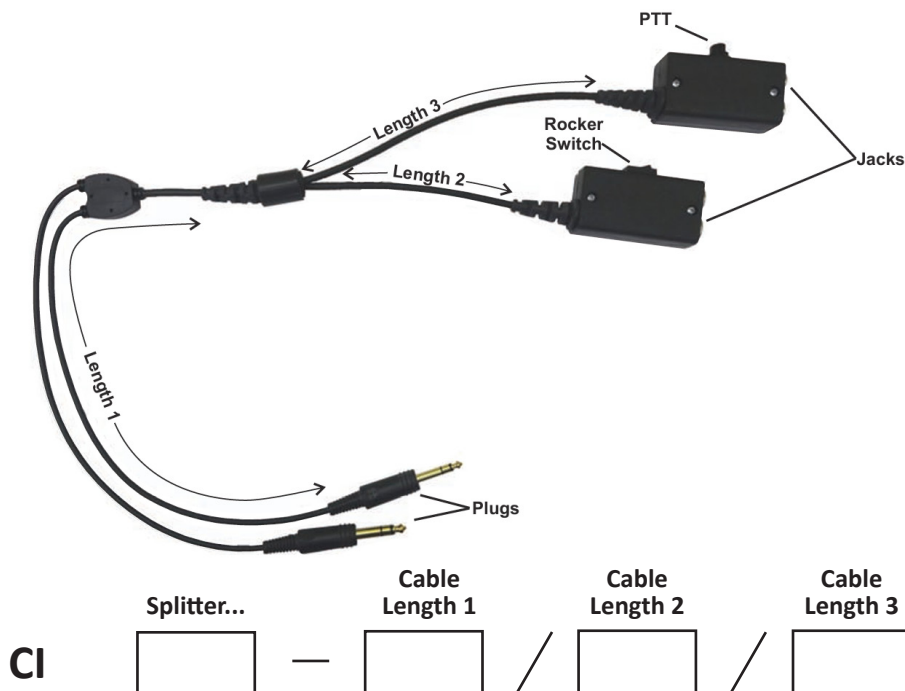
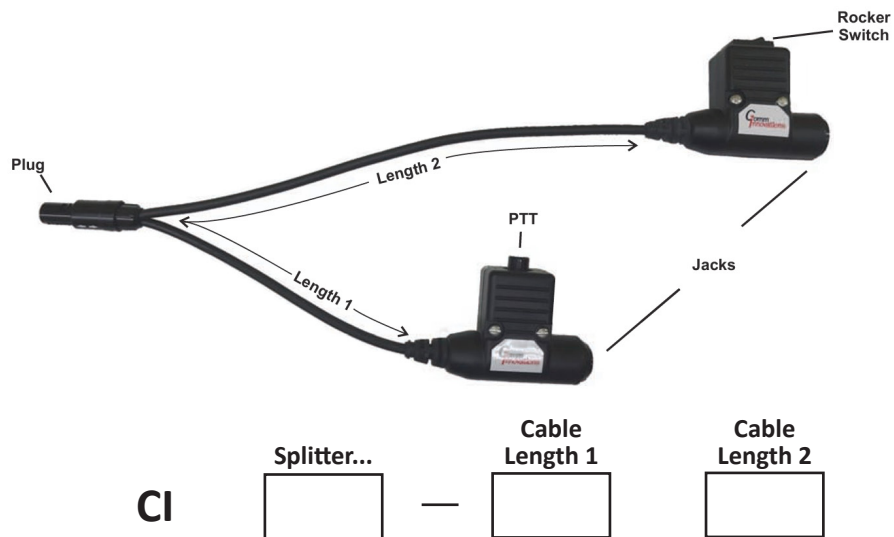
Splitter Cables with PTT

"V" Type Splitter

Splitter, Two Headsets to One ICS			
Code	Description	Jacks	Plug
H	civil helo	U-94A/U	TP-120
M	military	U-94A/U	TP-120
B	five conductor	TJS-105	U-384/U
C	commercial aviation	CIJ-051	CIPC-051
N	European Military	10H-18574	10h-18575
X	Bose A20	Lemo 6	Lemo 6

Straight Cable	
code	length
0XX	xx inches
X	x feet

Coil Cable		
code	retr'd	extended
K2	5"	2-3 ft
K3	12"	3-5 ft
K6	18"	6-9 ft
K10	6"	10-14 ft
K15	45"	15-20 ft



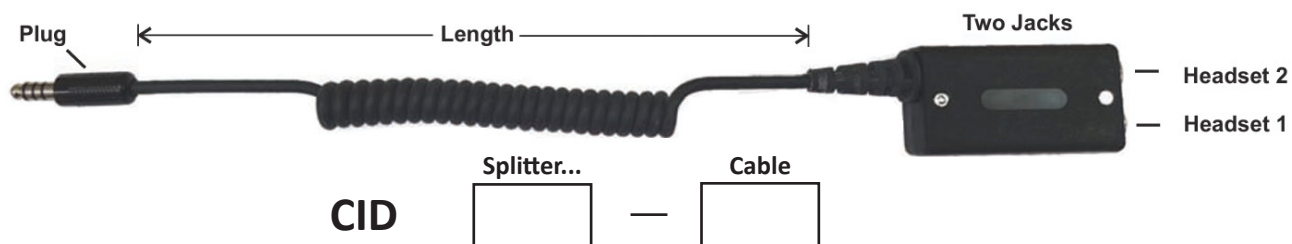
Splitter Cables without PTT

Splitter, Two Headsets to One ICS			
Code	Description	Jacks	Plug
H	civil helo	TJT-120	TP-120
M	military	TJT-120	TP-120
B	five conductor	TJT-125	U-384/U
C	commercial aviation	CIJ-051	CIPC-051
N	European Military	10H-18574	10h-18575
X	Bose A20	Lemo 6	Lemo 6

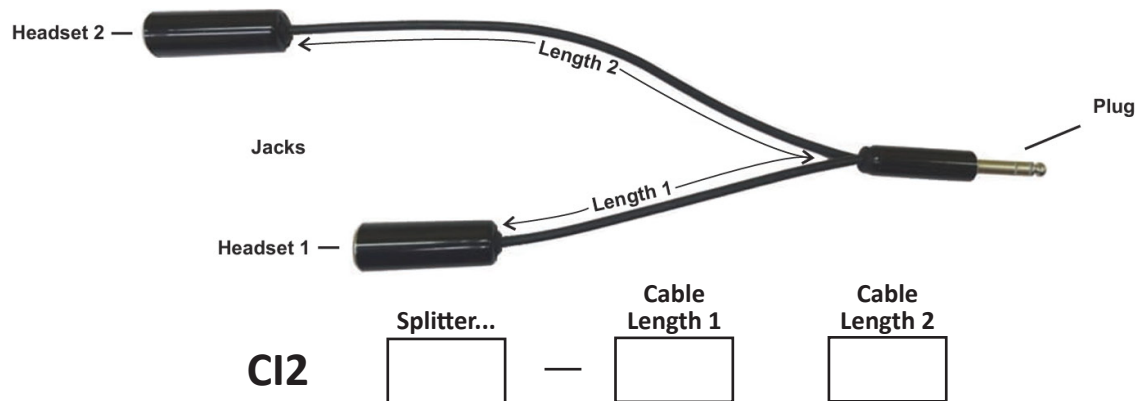
Straight Cable	
code	length
0XX	xx inches
X	x feet

Coil Cable		
code	retr'd	extended
K2	5"	2-3 ft
K3	12"	3-5 ft
K6	18"	6-9 ft
K10	6"	10-14 ft
K15	45"	15-20 ft

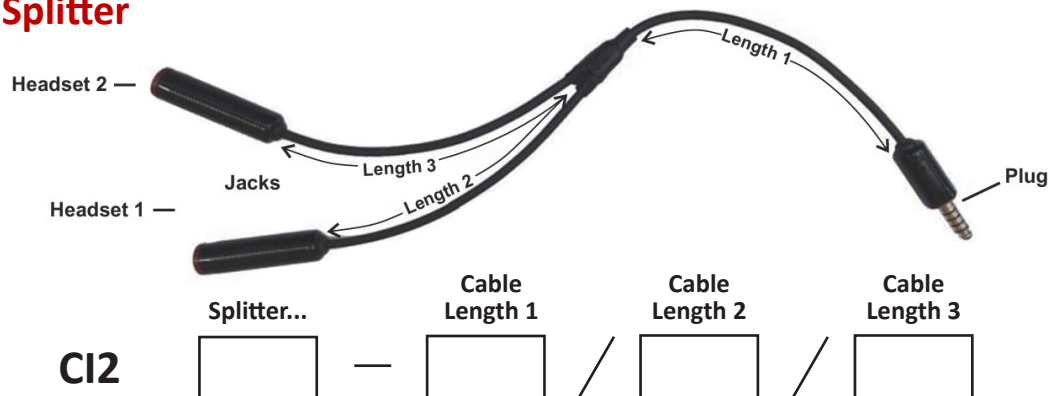
"D" Type Splitter



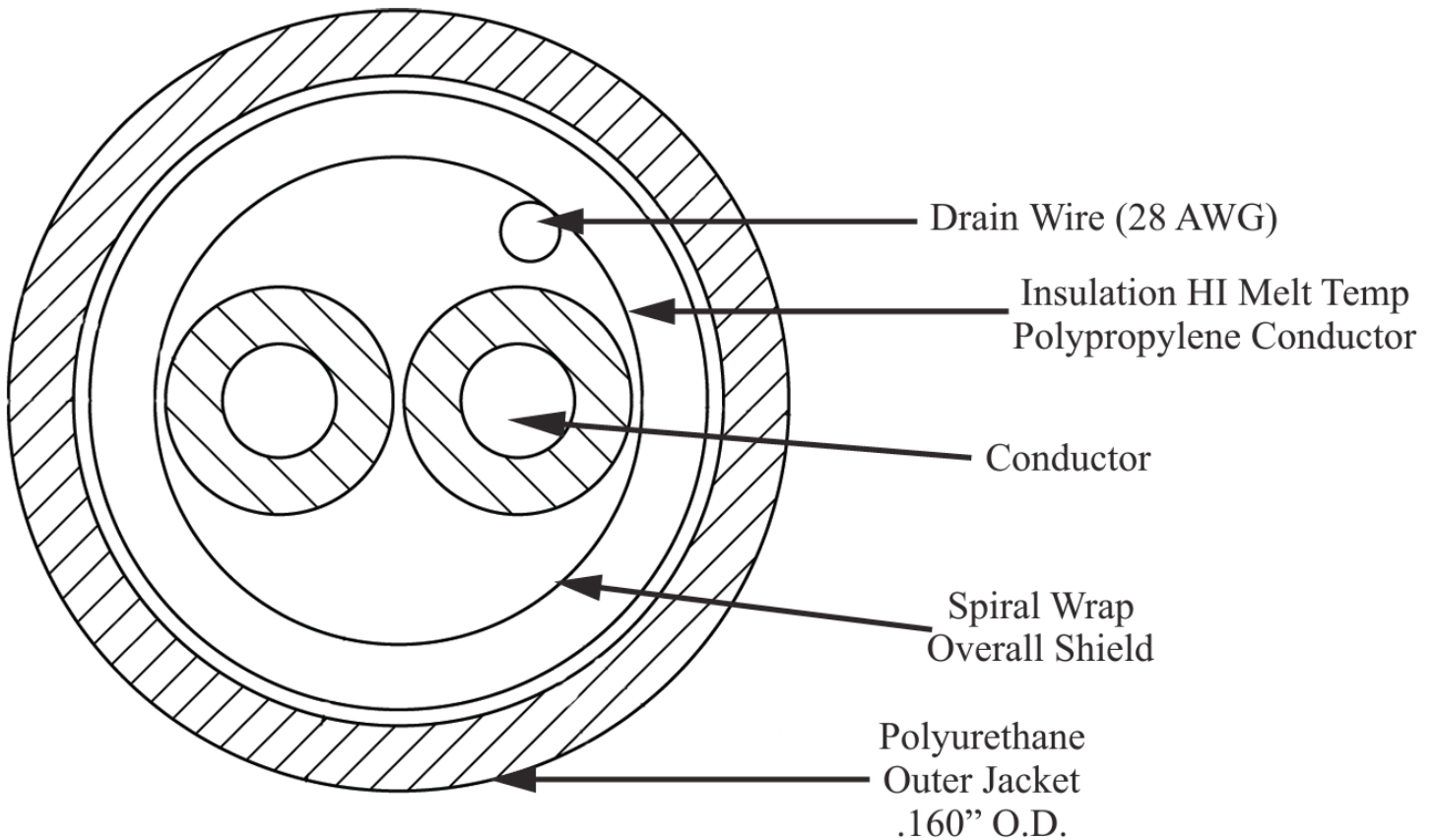
"V" Type Splitter



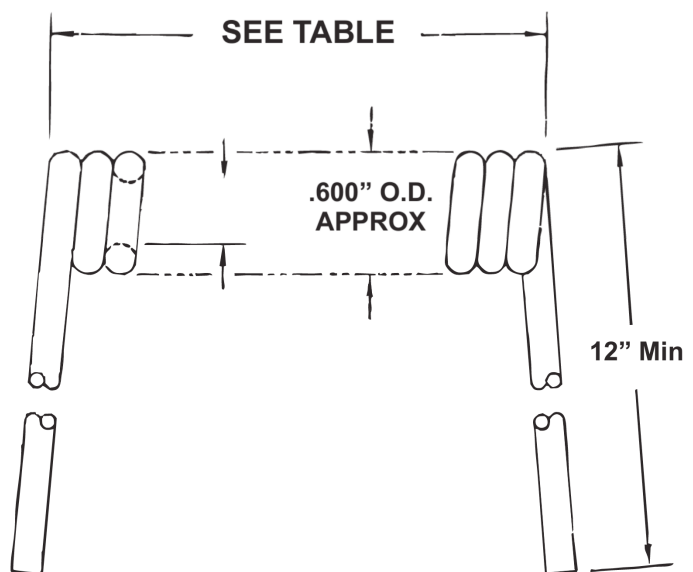
"Y" Type Splitter



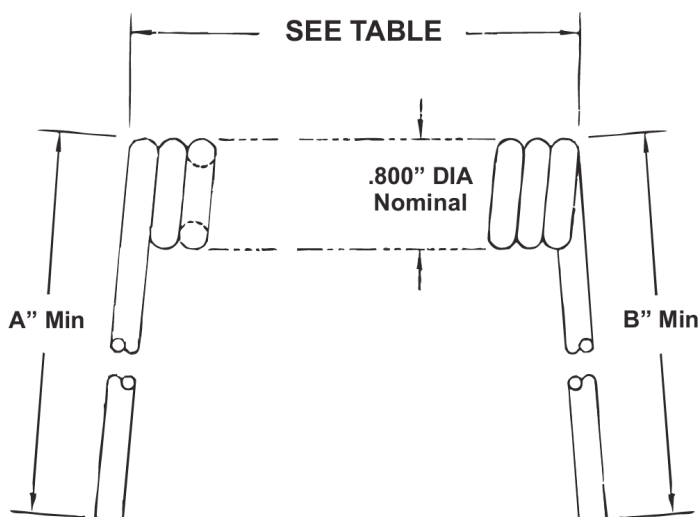
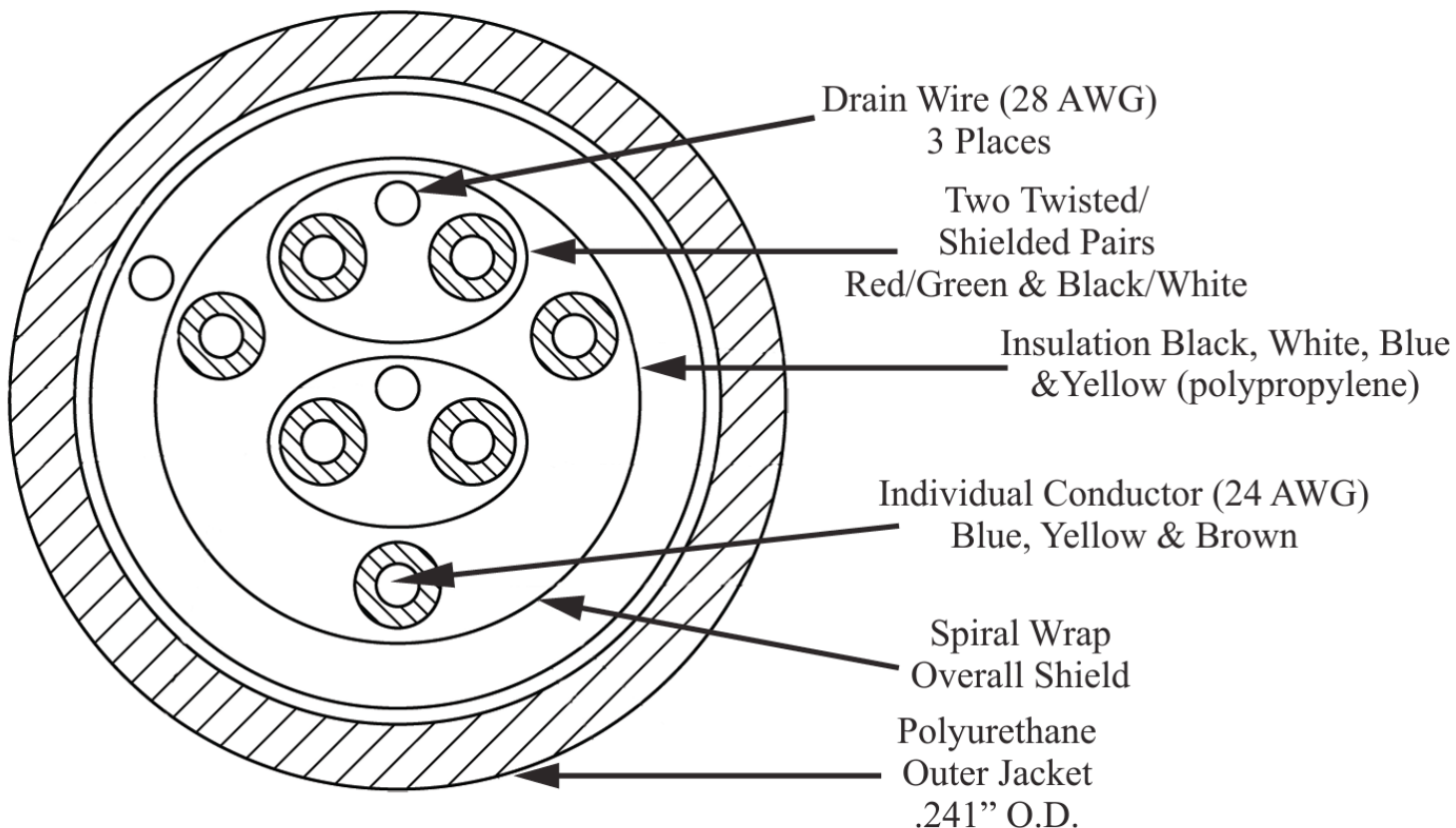
Two Conductor Cable



Part Number	Coil Length	
	Retr'd	Extended
CIK2-24-RGSU	4 inches	2 feet min
CIK3-24-RGSU	8 inches	3 feet min
CIK5-24-RGSU	12 inches	5 feet min
CIW-24-RGSU	straight cable	

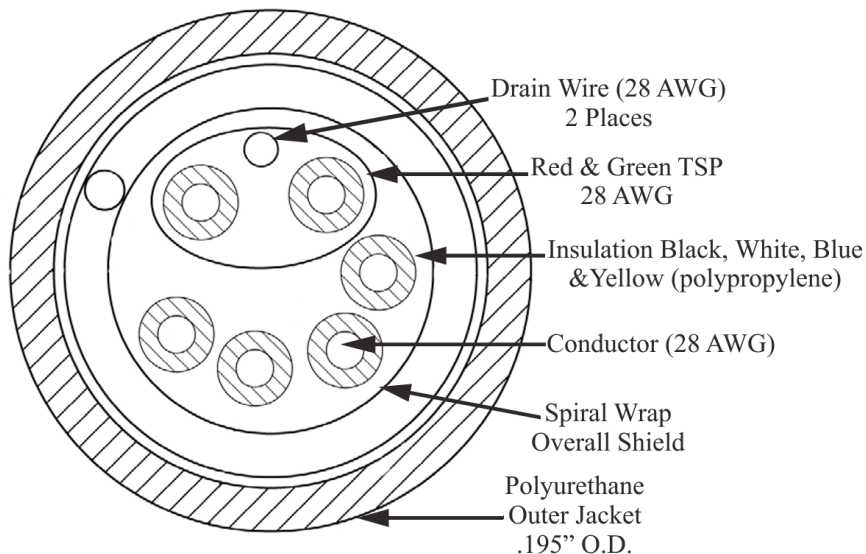


Seven Conductor Cable

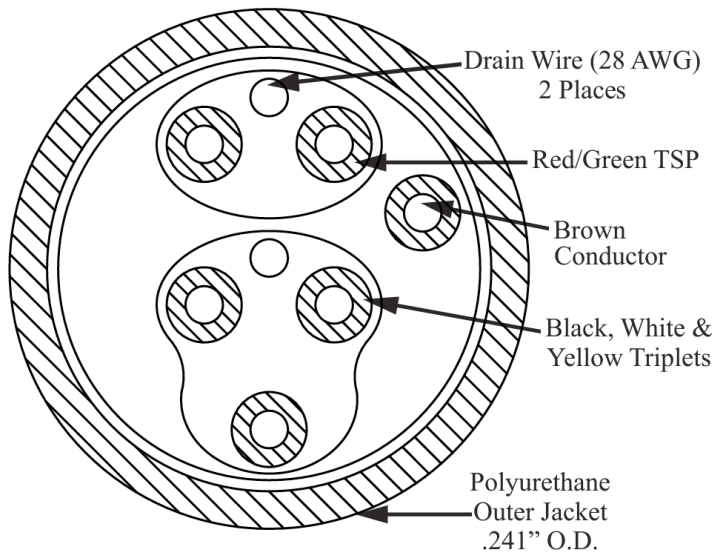
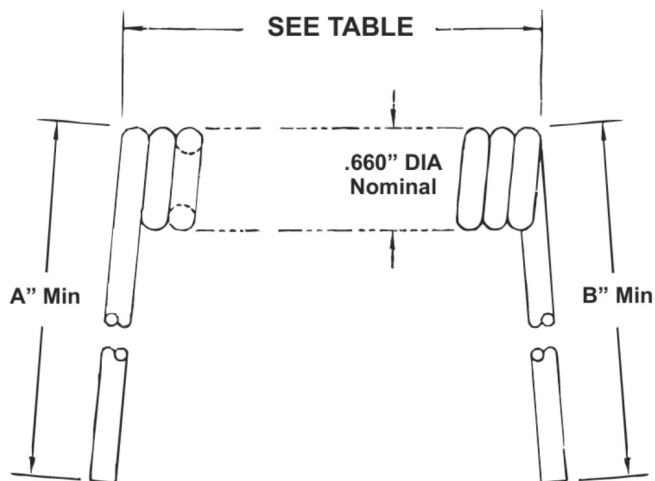


Part Number	Coil Length		Length A	Length B
	Retr'd	Extended		
CIK2-24-2P3	5 inches	2 feet min	13 inch min	
CIK3-24-2P3	12 inches	3 feet min		
CIKM-24-2P3	12 inches	3 feet min	24 inch min	13 inch min
CIK6-24-2P3	18 inches	6 feet min	13 inch min	
CIK10-24-2P3	36 inches	10 feet min		
CIK15-24-2P3	48 inches	15 feet min		
CIK20-24-2P3	60 inches	20 feet min		
CIK20A-24-2P3	60 inches	20 feet min		
CIW-24-2P3	straight cable			

Six Conductor Cable

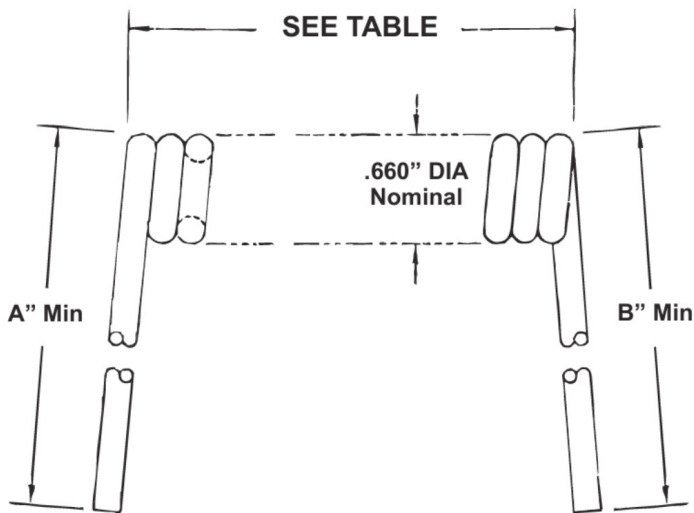
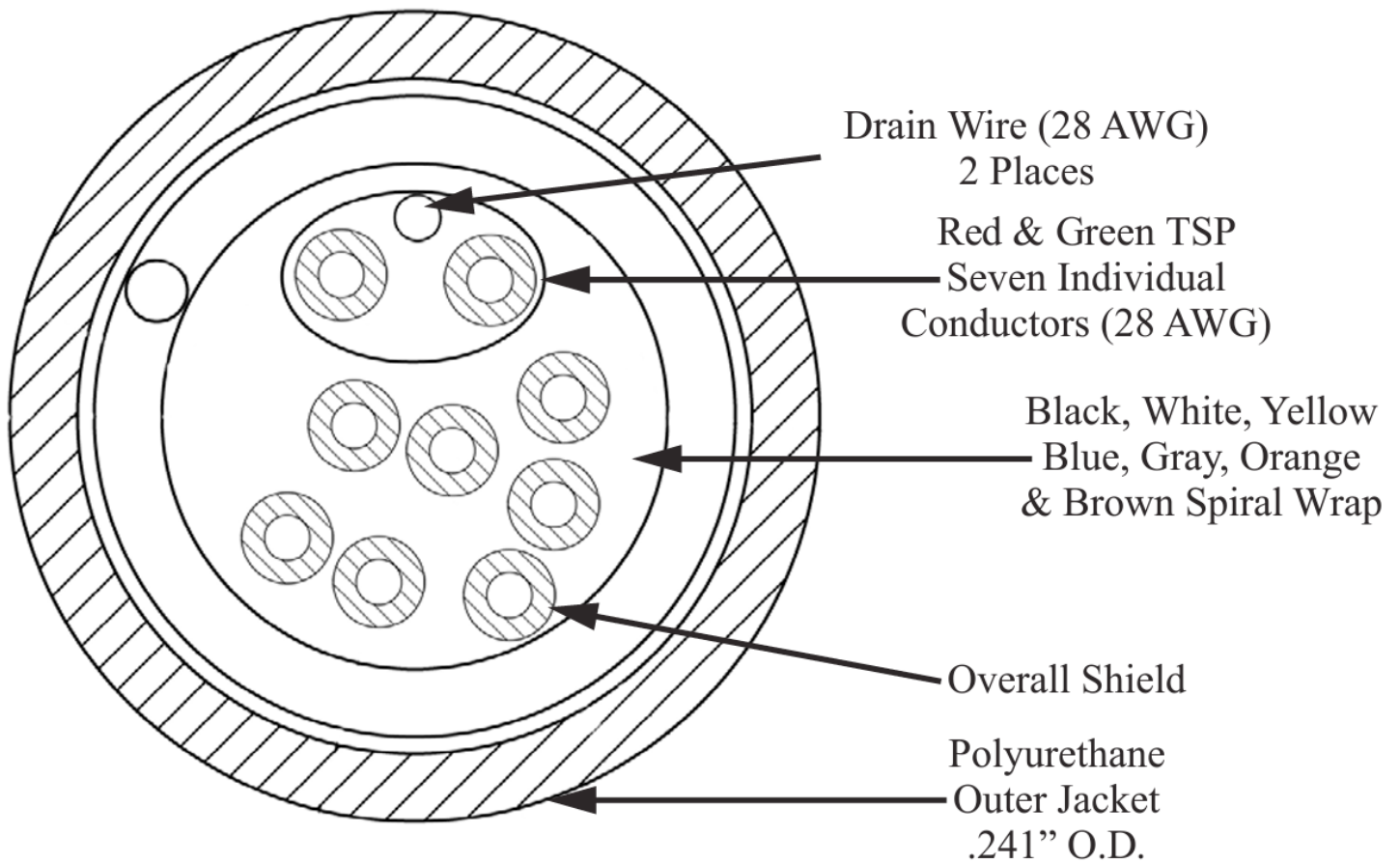


Part Number	Coil Length		Length A	Length B
	Retr'd	Extended		
CIK2-28-6SU	5 inches	2 feet min	13 inch min	
CIK3-28-6SU	12 inches	3 feet min		
CIK3D-28-6SU	12 inches	3 feet min	24 inch min	13 inch min
CIK6-28-6SU	18 inches	6 feet min	13 inch min	
CIK10-28-6SU	36 inches	10 feet min		
CIK15-28-6SU	48 inches	15 feet min		
CIK20-28-6SU	60 inches	20 feet min		



Part Number	Coil Length		Length A & B
	Retr'd	Extended	
CIK2-24-1T1P1	5 inches	2 feet min	13 inch min
CIK3-24-1T1P1	12 inches	3 feet min	
CIK6-24-1T1P1	18 inches	6 feet min	
CIK10-24-1T1P1	36 inches	10 feet min	
CIK15-24-1T1P1	48 inches	15 feet min	
CIK20-24-1T1P1	60 inches	20 feet min	
CIW-24-1T1P1	straight cable		

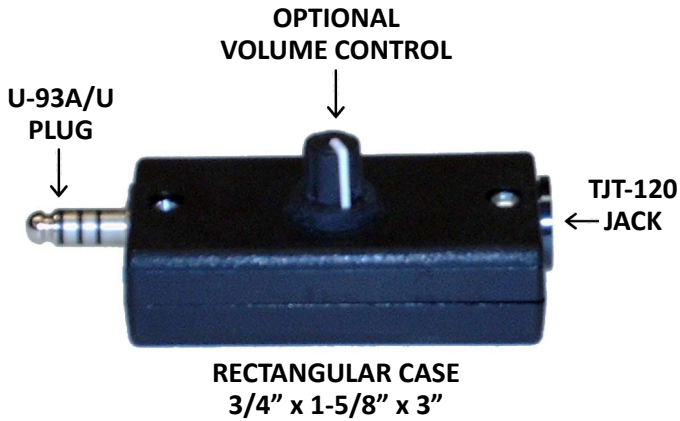
Nine Conductor Cable



Part Number	Coil Length		Length A	Length B
	Retr'd	Extended		
CIK2-28-9SU	5 inches	2 feet min	13 inch min	
CIK3-28-9SU	12 inches	3 feet min		
CIKM-28-9SU	12 inches	3 feet min	24 inch min	13 inch min
CIK6-28-9SU	18 inches	6 feet min	13 inch min	
CIK10-28-9SU	36 inches	10 feet min		
CIK15-28-9SU	48 inches	15 feet min		
CIK20-28-9SU	60 inches	20 feet min		
CIK20A-28-9SU	60 inches	20 feet min	36 in min	
CIW-28-9SU	straight cable			

Low To High Impedance Adapters

Low Impedance Military Headsets Used in Civilian Aircraft



CILH Shielding Case & Clip Impedance Volume Control — 93

Shielding	
Code	Description
none	adjustable* amp and shielded transformer
S	shielded amp and transformer

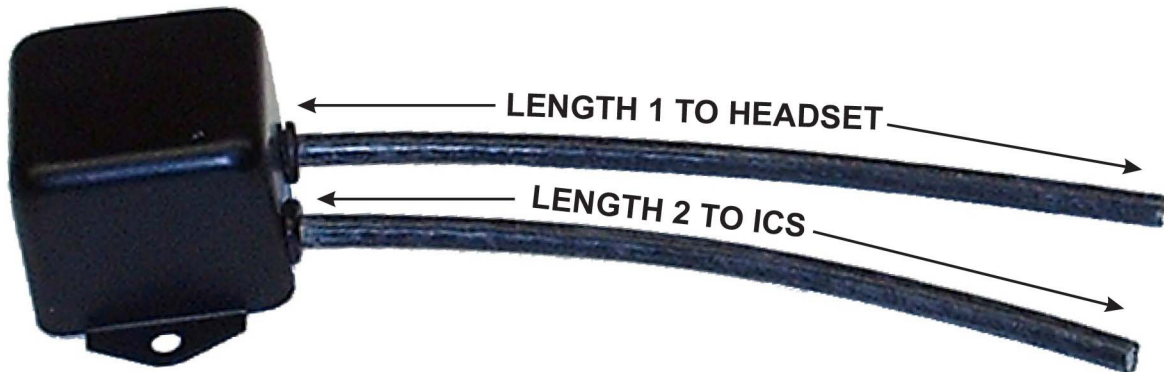
Case & Clip		
code	length	clip
none	rectangle	no
C	rectangle	yes
R	round*	no

Impedance	
none	8 to 150
6	8 to 600

Volume Control	
code	ground
none	n/a
V	yes
VA	no

*adjustable amp and volume control are not available with round case

Under Panel Type



CILH Shielding Length 1 Length 2

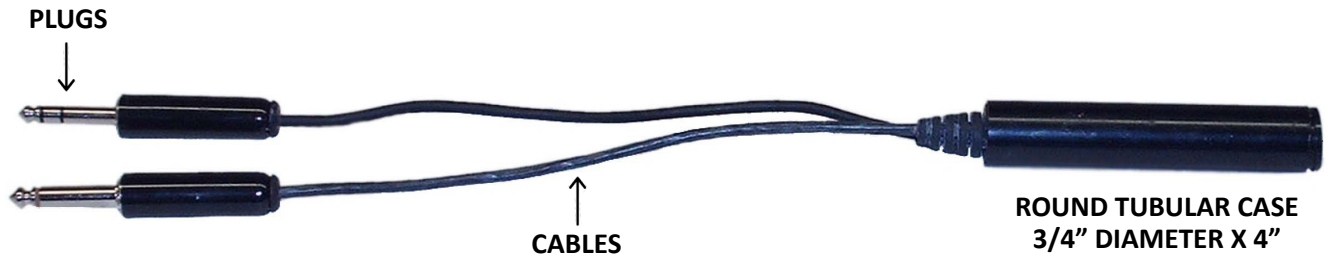
Shielding	
Code	Description
none	shielded transformer**
J	adjustable amp and shielded transformer**
S	shielded amp and transformer***

Length 1	
code	length
OXX	xx inches
X	x feet

Length 2	
code	length
OXX	xx inches
X	x feet

Low To High Impedance Adapters

Low Impedance Military Headsets Used in Civilian Aircraft



CILH

Shielding	Case & Clip	Impedance	Headset	Volume Control	Plug	Cable & Length
						—

Shielding	
Code	Description
none	adjustable* amp and shielded transformer
S	shielded amp and transformer

Case & Clip		
code	length	clip
none	rectangle	no
C	rectangle	yes
R	round*	no

Impedance	
none	8 to 150
6	8 to 600

Headset		
code	jack	type
None	TJT-120	US Military w/ U-174 Plug
N	10H-18574	European NAT w/ 101T-18575 Plug

Volume Control	
code	ground
none	n/a
V	yes
VA	no

Plug	
code	description
74	TP-120 (civil helo)
75	U-75/U (USFS)
YP	CIPC-055B & CIPC-068 (gen'l av'n)

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
/XX	XX ft straight
/OXX	XX inch straight

*adjustable amp and volume control are not available with round case

** special coil cable for EMS applications 20" straight from coil to case

High To Low Impedance Adapters

High Impedance Civilian Headsets Used in Military Aircraft

Civilian ICS (Inter Communication Systems) are designed to be compatible with high impedance headsets with amplified microphones. Military ICS systems are configured to accept low impedance headsets with unamplified microphones. The CIHL Series Adapters are designed to interface high impedance headsets to operate with military ICS systems.

Under Panel Type

CASE DIMENSIONS

****1.424" SQUARE x 1.10" DEEP**



ATTENATION ADJUSTMENT

CIHL — X —

Cable Length 1

 /

Headset

 /

Cable Length 2

 /

Cable Length 3

Length 1	
code	length
OXX	xx inches
X	x feet

Headset	
code	description
none	standard
R	ANR*

Length 2	
code	length
OXX	xx inches
X	x feet

Length 3	
code	length
OXX	xx inches
X	x feet

High To Low Impedance Adapters

High Impedance Civilian Headsets Used in Military Aircraft

In-Line Type Battery Powered

CILH

Jack ☐ Power ☐ Clothing Clip ☐ Volume ☐ — Cable & Length ☐

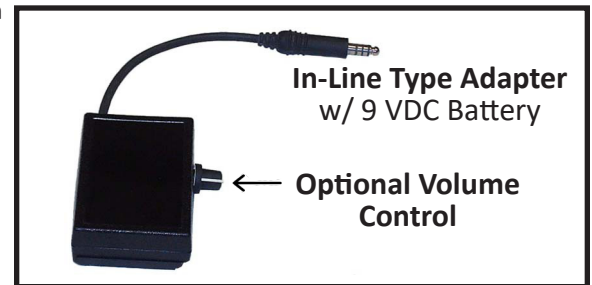
Jack	
code	description
TJ	TJT-120 (civil helo)
GJ	CIJ-055 & CI-068 (gen'l aviation)

Power*	
code	description
none	no
Y	yes

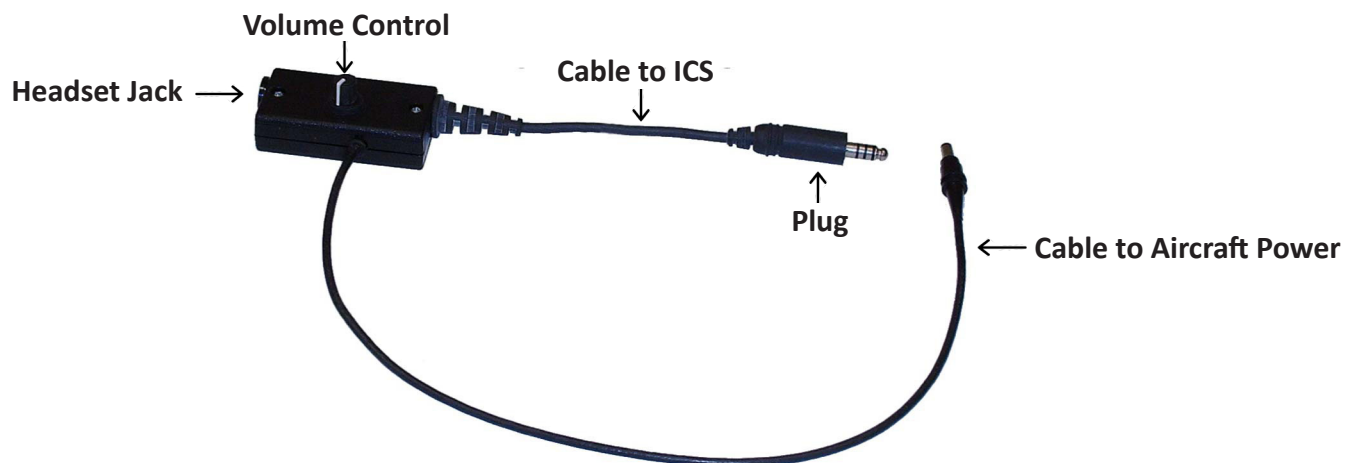
Clothing Clip	
code	description
none	no
Y	yes

Volume Control	
code	ground
none	n/a
V	yes
VA	no

Cable & Length	
code	description
K2	2 ft coil
K3	3 ft coil
KM	3 ft **
K6	6 ft coil
K10	10 ft coil
K15	15 ft coil
/XX	XX ft straight
/OXX	XX inch straight



In-Line Type Aircraft Powered



CILH

Power ☐ Jack ☐ Clothing Clip ☐ Volume ☐ — Cable & Length ☐

Power*	
code	description
B	9VDC Battery
C	cigarette lighter
E*	*regulated a/c power
F*	*unregulated a/c power

Jack	
code	description
TJ	TJT-120 (civil helo)
GJ	CIJ-055 & CI-068 (gen'l aviation)

Clothing Clip	
code	description
none	no
C	yes

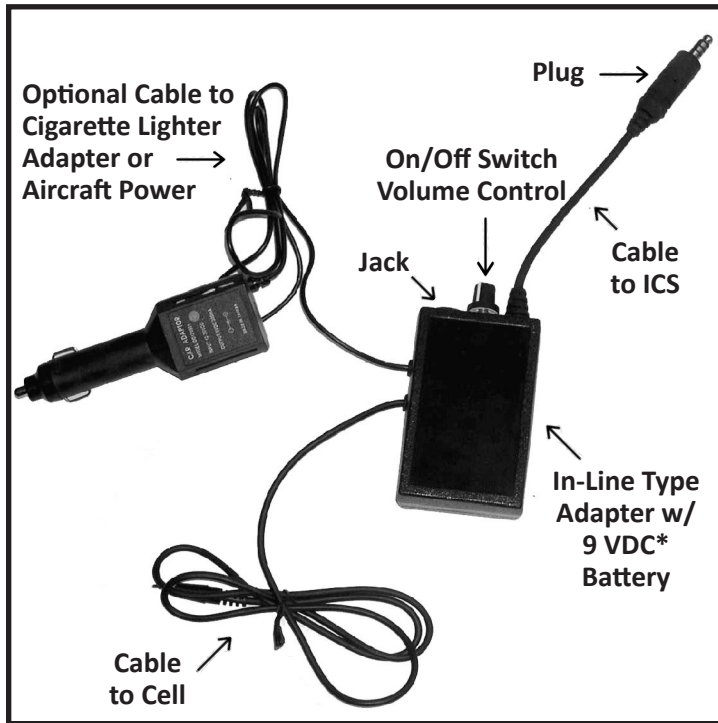
Volume Control	
code	ground
none	n/a
V	yes
VA	no

Cable & Length	
See Above	

In-Line Cell Phone Adapters

Using Standard Aviation Headset

In-line Cell Phone Adapters are intended for use in-line between the headset and ICS. They are powered* by battery, cigarette lighter adapter or aircraft power (300ma @ 9VDC regulated or 28 VDC unregulated. Override priority is optional. (ICS/ Radio over cell or vice-versa.)



CILPA

Power	Headset	Clothing Clip	Cable to Power	Override Priority	Cable to Cell	—	Cable to ICS

Power*	
code	description
B	9VDC Battery
R***	rechargeable battery
C	cigarette lighter
E*	*regulated a/c power
F*	*unregulated a/c power

Headset Type		
code	description	jack
H	Helicopter	TJT-120
G	General Aviation	CIJ-055

Clothing Clip	
code	description
none	no
Y	yes

*Cable (to power)	
code	description
none	3 ft
X	"X" ft

Override Priority	
code	ground
none	none
P	cell
R	ICS

Cable (to cell)	
code	description
none	3 ft w 2.5 mm plug
/X	"X" ft w 2.5 mm plug
/Q	3 ft w 3.5 mm plug**
/XQ	"X" ft w 3.5 mm plug**

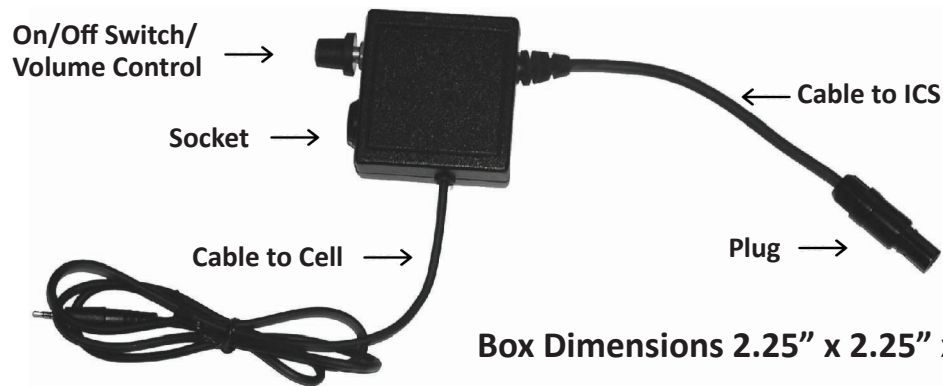
Cable (to ICS)		
code	type	length
none	straight	6 inches
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

* Plug on power cable is 2.5 mm ID and 5.5 mm OD unless otherwise specified. Mating panel mount jack p/n CIJPM-DC available separately.
 **4 contact 3.5 mm plug used with Blackberry (phones only) mike does not work at all times.
 *** Charger included.

In-Line Cell Phone Adapters

Using Aircraft Powered ANR Headset Without Priority Override

This style adapter is intended for use between an aircraft powered ANR headset and an ICS.



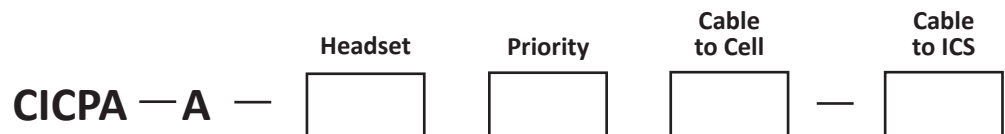
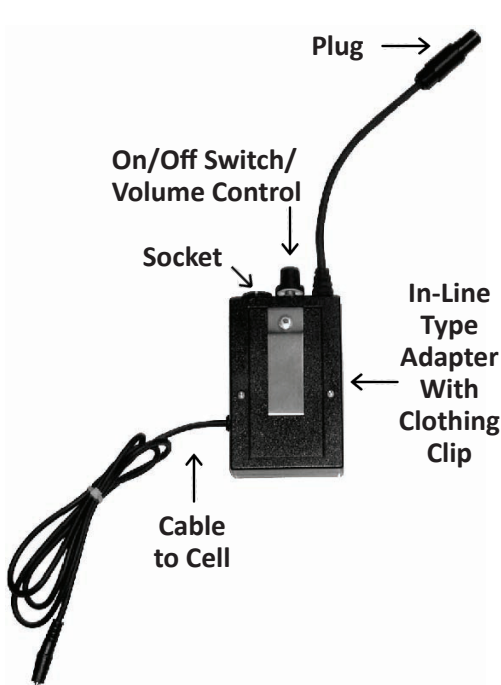
Headset Type		
code	type	length
B	Bose ANR	Hirose-6
BX	Bose X ANR	Lemo-6
D	David Clark ANR	Hirose-10

Clothing Clip	
code	description
none	no
C	yes

Cable (to cell)	
code	description
none	3 ft w 2.5 mm plug
/X	"X" ft w 2.5 mm plug
/Q	3 ft w 3.5 mm plug
/XQ	"X" ft w 3.5 mm plug

Cable (to ICS)		
code	type	length
none	straight	6 inches
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

With Priority Override



Headset Type	
see above	

Priority	
code	description
P	cell
R	ICS

Cable (to cell)	
see above	

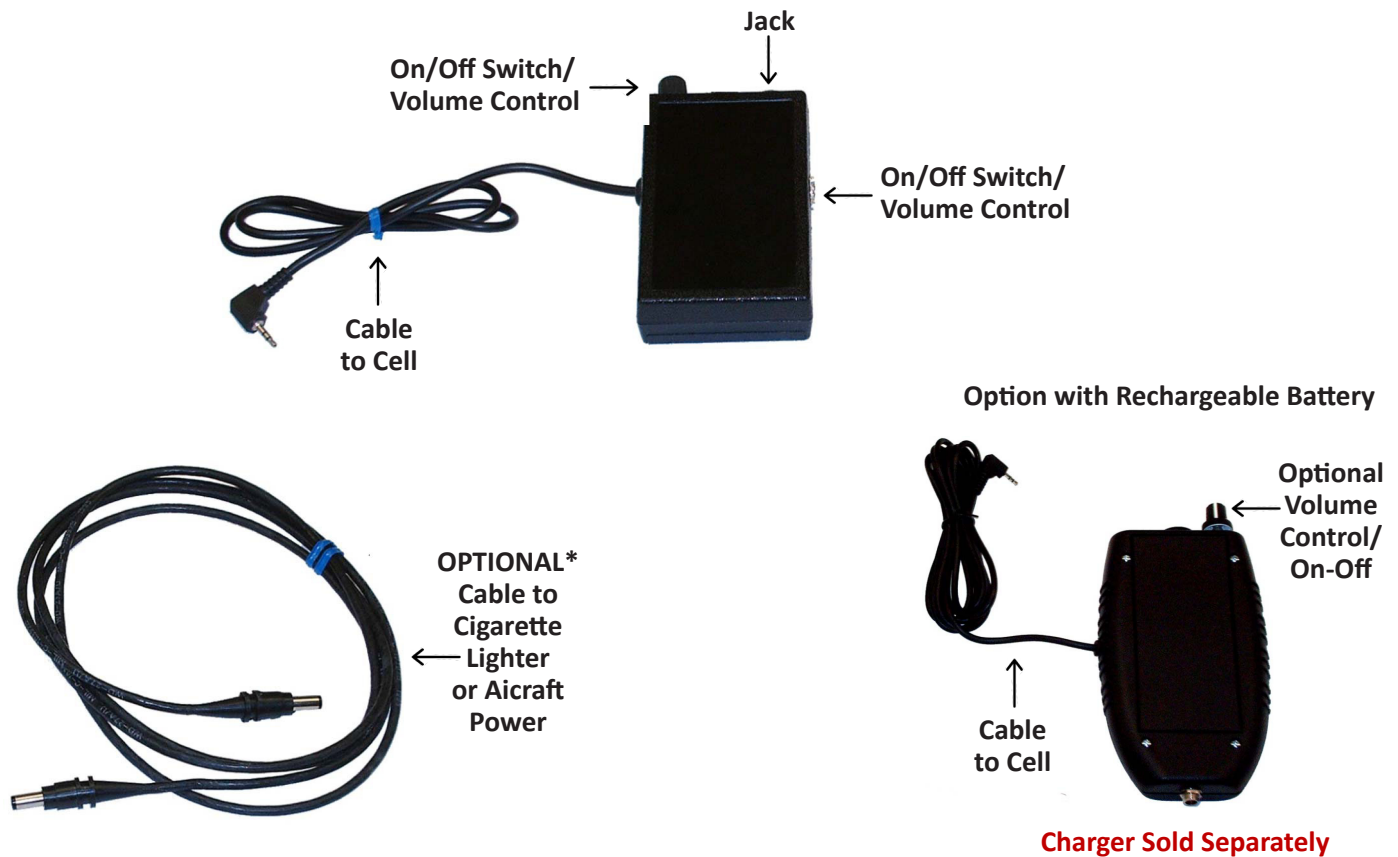
Cable (to ICS)	
see above	

This style adapter is intended for use between an aircraft powered ANR headset and the ICS and includes priority override.

Box Dimensions 2.5" x 3.75" x 1

Headset to Cell Phone Adapters

This style adapter interfaces a headset directly to the cell phone. If an ANR headset is used, the headset is also powered by the battery, the cigarette lighter adapter or aircraft powered (300ma @ 9 VDC regulated or 28 VDC unregulated).



CICPA1 —

Power	Headset	Clothing Clip	Cable to Power	Cable to Cell

Power*	
code	description
B	9VDC Battery
R***	rechargeable battery
C	cigarette lighter
E*	*regulated a/c power
F*	*unregulated a/c power

Headset Type		
code	description	jack
H	Helicopter	TJT-120
G	General Aviation	CIJ-055

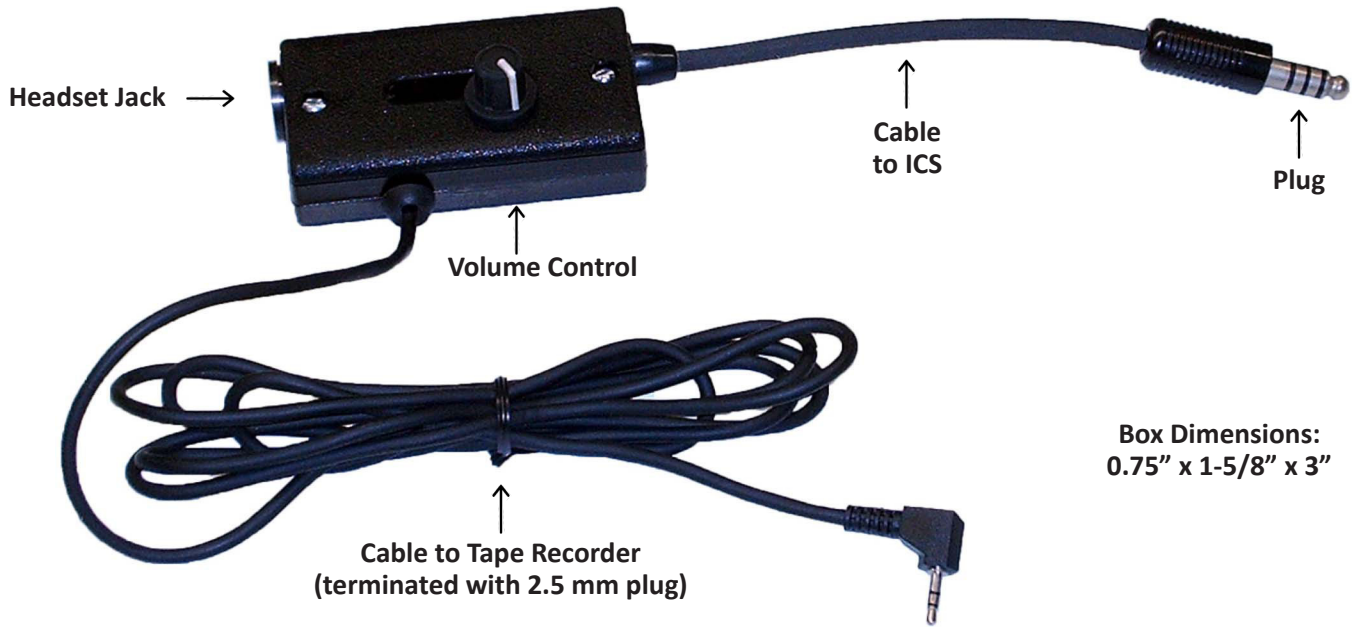
Clothing Clip	
code	description
none	no
Y	yes

*Cable (to power)	
code	description
none	3 ft
X	"X" ft

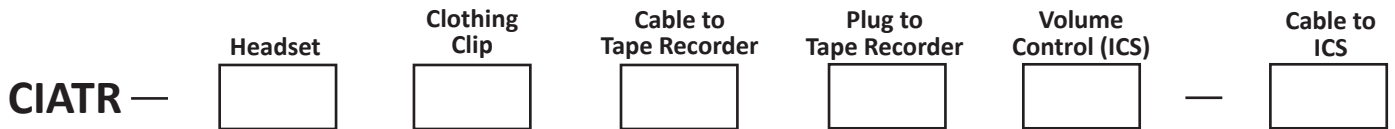
Cable (to cell)	
code	description
none	3 ft w 2.5 mm plug
/X	"X" ft w 2.5 mm plug
/Q	3 ft w 3.5 mm plug**
/XQ	"X" ft w 3.5 mm plug**

* Plug on power cable is 2.5 mm ID and 5.5 mm OD unless otherwise specified. Mating panel mount jack p/n CIJPM-DC available separately.
 **4 contact 3.5 mm plug used with Blackberry (phones only) mike does not work at all times.
 *** Charger included.

Tape Recorder Adapters



Box Dimensions:
0.75" x 1-5/8" x 3"



Headset Type			
code	description	jack	plug
H	Helicopter	TJT-120	TP-120
M	Military	TJT-120	TP-120
G	General Aviation	CIJ-055	CIPC-055
B	Bose ANR	Hirose-6	Hirose-6
BX	Bose X ANR	Lemo-6	Lemo-6
D	David Clark ANR	Hirose-10	Hirose -10

Clothing Clip	
code	description
none	no
C	yes

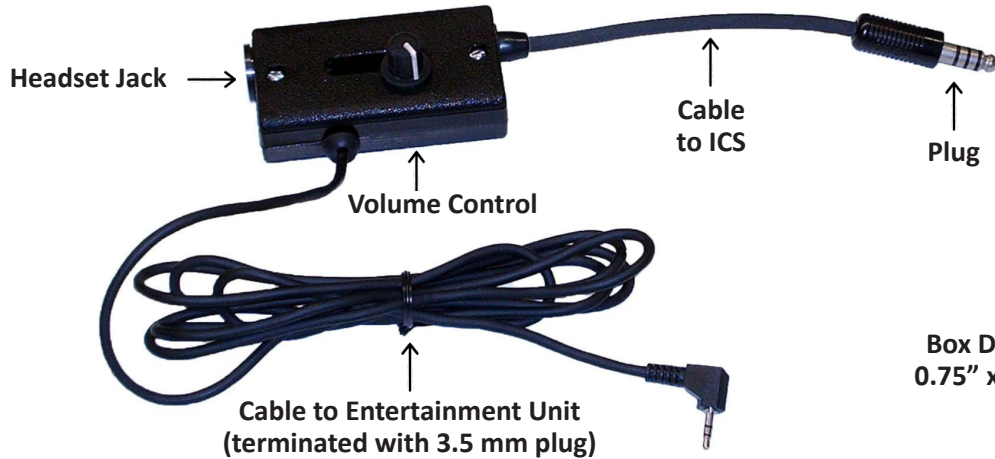
Cable (to Tape Recorder)	
code	description
none	3 ft w/
6	6 ft w/

Plug (to Tape Recorder)	
code	description
none	3.5 mm plug
-XLR	XLR-3-12C

Volume Control	
code	ground
none	none
V	yes
VA	no

Cable (to ICS)		
code	type	length
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

Entertainment Adapters



Box Dimensions:
0.75" x 1-5/8" x 3"

CIATR — ☐ Headset ☐ Clothing Clip ☐ Override Priority ☐ Cable to Entertainment ☐ Volume Control (ICS) ☐ — ☐ Cable to ICS

Headset Type			
code	description	jack	plug
H	Helicopter	TJT-120	TP-120
M	Military	TJT-120	TP-120
G	General Aviation	CIJ-055	CIPC-055
B	Bose ANR	Hirose-6	Hirose-6
BX	Bose X ANR	Lemo-6	Lemo-6
D	David Clark ANR	Hirose-10	Hirose -10

Clothing Clip	
code	description
none	no
C	yes

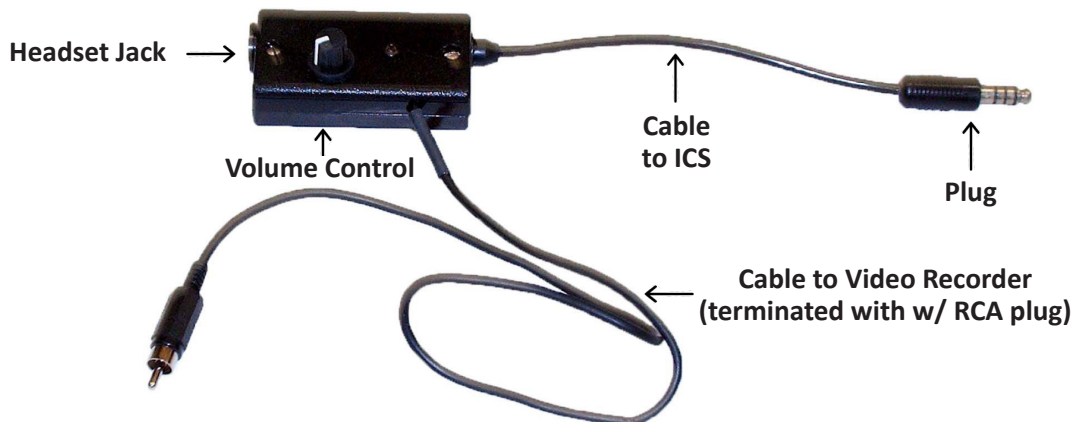
Override Priority	
code	ground
none	none
P	cell
R	ICS

Cable (to Entertainment OR Video Recorder)	
code	description
none	3 ft w/
X	"X" ft w/

Volume Control	
code	ground
none	none
V	yes
VA	no

Cable (to ICS)		
code	type	length
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

Video Recorder Adapters



Box Dimensions:
0.75" x 1-5/8" x 3"

CIATV — ☐ Headset ☐ Clothing Clip ☐ Cable to Video Recorder ☐ Volume Control (ICS) ☐ — ☐ Cable to ICS

(See Above Charts for Codes)

Entertainment Adapters w/ ICS Priority Override



CIAEP — Headset Clothing Clip Cable to Entertainment Volume Control (ICS) — Cable to ICS

Headset Type			
code	description	jack	plug
H	Helicopter	TJT-120	TP-120
M	Military	TJT-120	TP-120
G	General Aviation	CIJ-055	CIPC-055

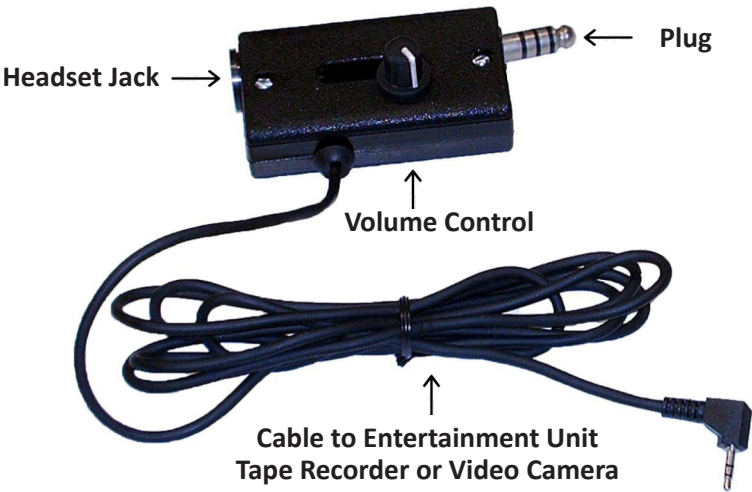
Clothing Clip	
code	description
none	no
C	yes

Cable (to Entertainment)	
code	description
none	3 ft w/
X	“X” ft w/

Volume Control	
code	ground
none	none
V	yes
VA	no

Cable (to ICS)		
code	type	length
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

Civilian Helicopters & Military Adapters



CIA — Adapter Type Headset 93 — Cable to Entertainment

Adapter Type	
code	ground
TR	Tape Recorder
E	Entertainment
V	Video Camera

Headset Type	
code	description
H	Helicopter
M	Military
G	General Aviation

Cable (to Entertainment)	
code	description
none	3 ft w/
X	“X” ft w/

Entertainment/Cell Phone Adapters



CILPA

Headset	Clothing Clip	Volume Control (ICS)	Cable to Entertainment	Override Priority	Cable to Cell	—	Cable to ICS
☐	☐	☐	☐	☐	☐		☐

Headset Type			
code	description	jack	plug
H	Helicopter	TJT-120	TP-120
G	General Aviation	CIJ-055	CIPC-055

Clothing Clip	
code	description
none	no
Y	large

Volume Control	
code	ground
none	none
V	yes
VA	no

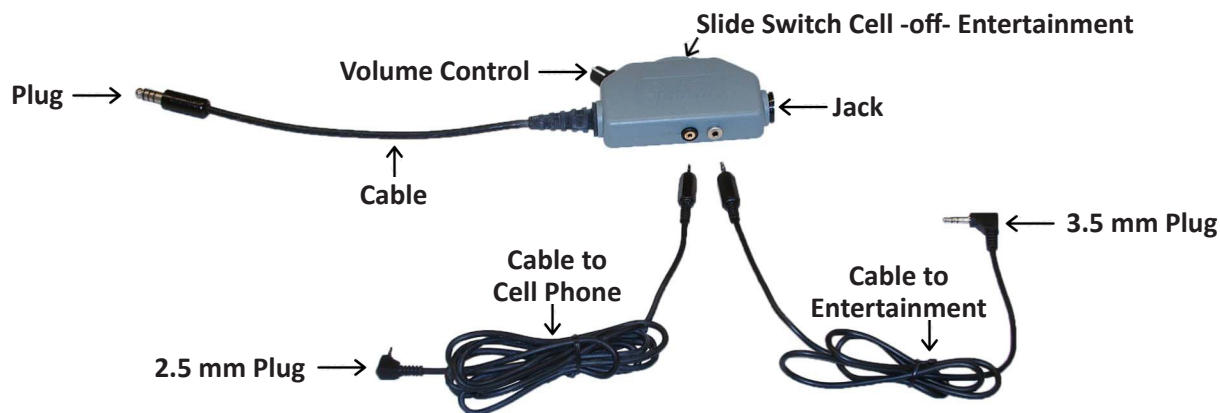
Cable (to Entertainment)	
code	description
none	3 ft w/
X	"X" ft w/

Override Priority	
code	ground
none	none
P	cell
R	ICS

Cable (to cell)	
code	description
none	3 ft w 2.5 mm plug
/X	"X" ft w 2.5 mm plug
/Q	3 ft w 3.5 mm plug**
/XQ	"X" ft w 3.5 mm plug**

Cable (to ICS)		
code	type	length
OXX	straight	XX inches
X	straight	X feet
K3	coiled	3 feet
K6	coiled	6 feet

Aircraft Powered ANR Headsets



CIAE/C —	Headset	Clothing Clip	Volume Control (ICS)	Cable to Entertainment	Override Priority	Cable to Cell	Cable to ICS
	☐	☐	☐	☐	☐	☐	☐

Headset Type			
code	description	jack	plug
H	Helicopter	TJT-120	TP-120
M	Military	TJT-120	TP-120
G	General Aviation	CIJ-055	CIPC-055

Clothing Clip	
code	description
none	no
G	large

Volume Control (ICS)
see above

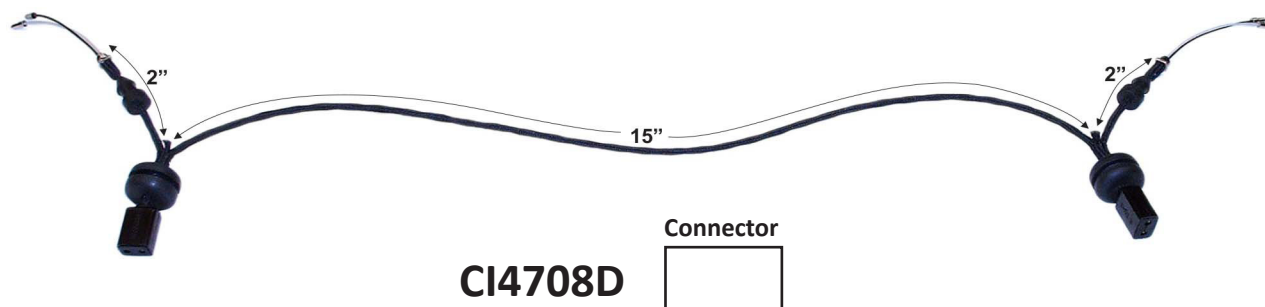
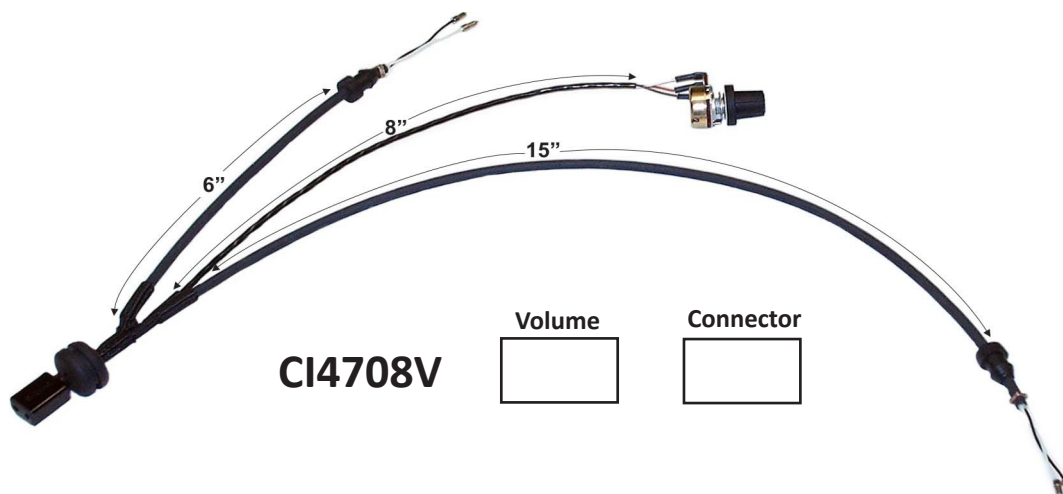
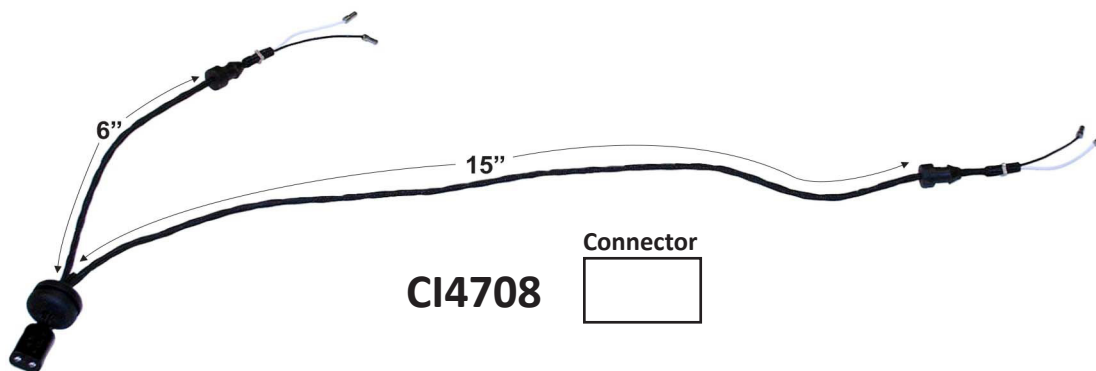
Cable to Entertainment
see above

Override Priority
see above

Cable to Cell
see above

Cable to ICS
see above

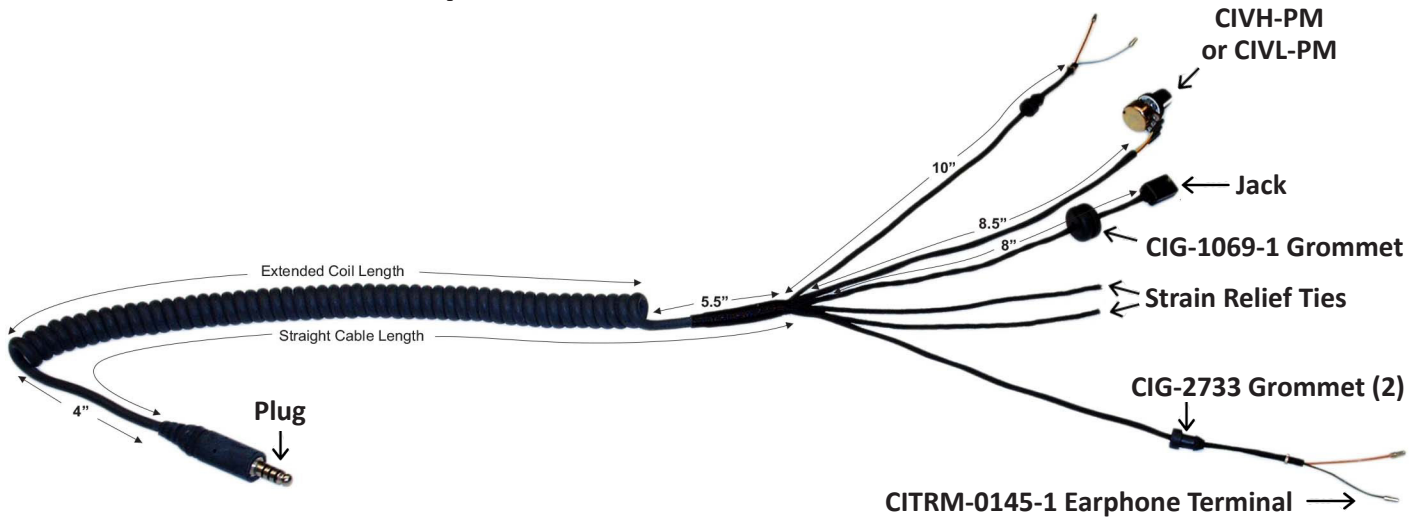
Helmet Cross-Over Cables



Connector	
code	type
none	U-172/U
-79	U-179A/U
-55	JJ-055

Volume Control		
code	imp	grnd
H	hi	yes
HA	hi	no
L	lo	yes
LA	lo	no

Alpha Helmet Download Cables



CID08A

Jack

Volume Control

Cable & Length

Plug

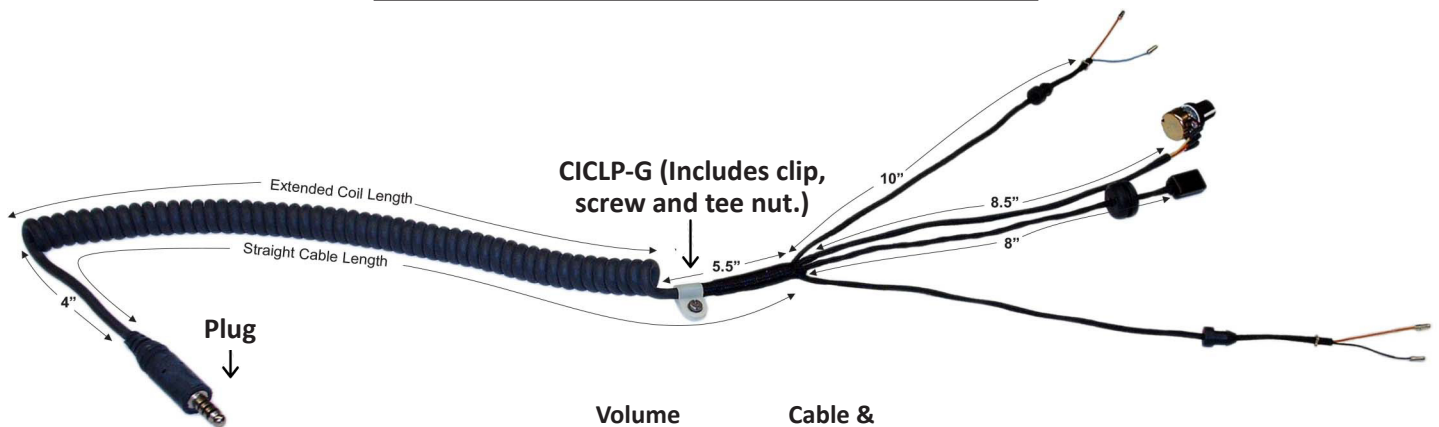
Jack	
code	type
none	U-172/U
-79	U-179A/U

Volume Control		
code	imp	grnd
none	n/a	n/a
H	hi	yes
HA	hi	no
L	lo	yes
LA	lo	no

Cable & Length	
code	description
K3	3 ft coil
K6	6 ft coil
/XX	XX ft straight

Plug	
Code	Description
74	TP-120 (civil helo)
74M	U-174/U (military)
75	U-75/U (USFS or USN)
NP	NATO (European)
NPS	NATO s/shroud
84	U-384/U (5 contacts)
YP	CIPC-055 & CIPC-068 (GA)
YPS	CIPS-051 & CIPC-068 (stereo)

Generic Helmet Download Cables



CID08

Jack

Volume Control

Cable & Length

Plug

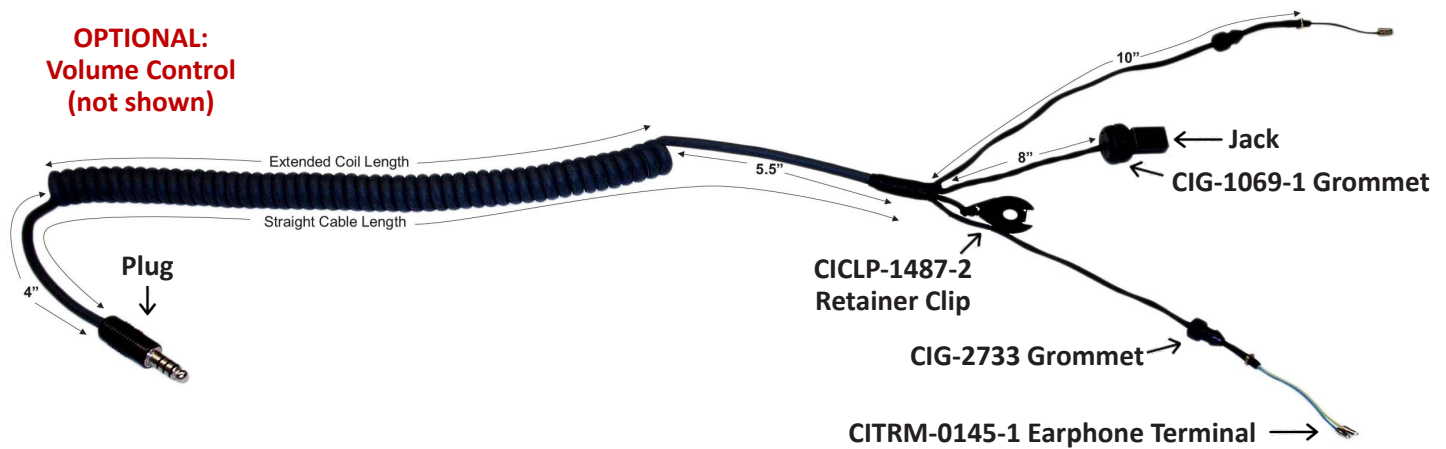
Jack
see above

Volume Control
see above

Cable & Length
see above

Plug
see above

Gentex Helmet Download Cables



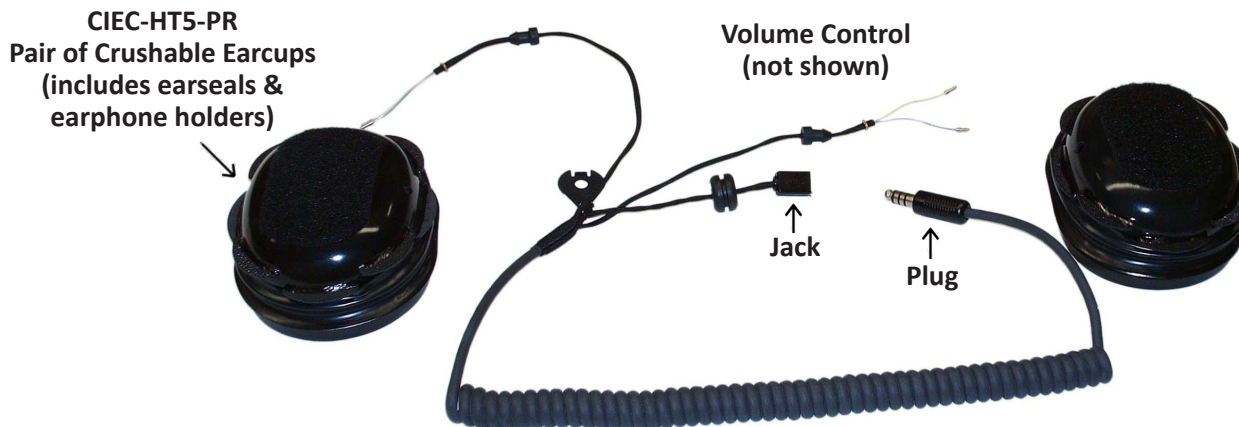
CID08A

Jack Volume Control Cable & Length Plug

Jack	Volume Control	Cable & Length		Plug
see page 94	see page 94	code	description	see page 94
		K3	3 ft coil	
		K6	6 ft coil	
		/XX	XX ft straight	
		/2B	2 ft straight*	
		/3B	3 ft straight*	

*braided

SPH Helmet Headset



CIH5

Jack Volume Control Earphones Cable & Length Plug

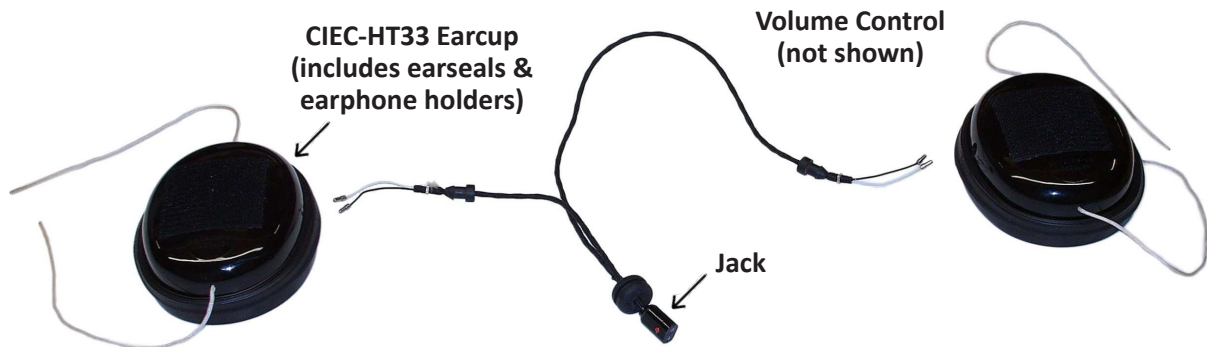
Jack	Earphones						Cable & Length
see page 94	code	p/n	impedance	code	p/n	impedance	see page 94
	none	n/a	n/a	300	CIE-600	600 ohms*	
	M	H-143/AIC	19 ohms*	500	CIE-1000	1000 ohms*	
	H	CIE-300F	300 ohms*	600	CIE-1200	1200 ohms*	

Plug
see page 94

Spare Parts:

code	description
CIEC-HTS-L	L/H Earcup
CIEC-HTS-R	R/H Earcup
CIEC-HT	Earseal
CIEH-HTS	Earphone Holder

HGU Helmet Headset w/ Cross-Over Cable



CIH33

Jack	Volume Control	Earphones

Jack	
code	type
none	U-172/U
-79	U-179A/U

Volume Control		
code	imp	grnd
none	n/a	n/a
H	hi	yes
HA	hi	no
L	lo	yes
LA	lo	no

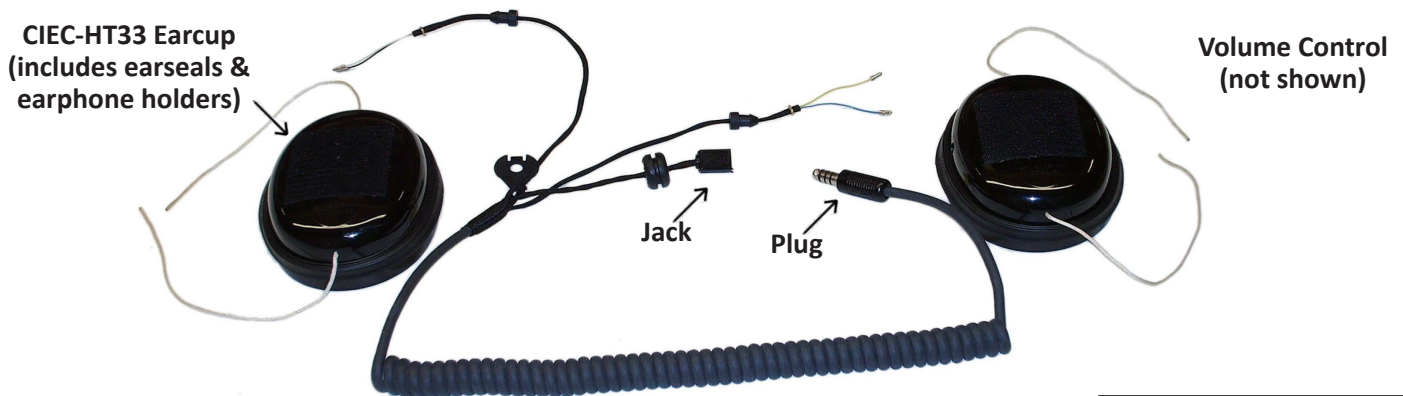
Earphones		
code	p/n	impedance
none	n/a	n/a
M	H-143/AIC	19 ohms*
H	CIE-300F	300 ohms*
600	CIE-600	600 ohms*
500	CIE-1000	1000 ohms*
1200	CIE-1200	1200 ohms*

*earphone impedance, wired in parallel
(headset impedance one-half)

Spare Parts:

code	description
CIES-HT	Earseal
CIEH-HT33	Earphone Holder
CIEC-HT33	Earcup Only
CIEH-HTS	Earcup Spacer Kit

HGU Helmet Headset w/ Download Cable



CIH33

Jack	Volume Control	Earphones	Cable & Length	Plug

Jack
see above

Volume Control		
code	imp	grnd
H	hi	yes
HA	hi	no
L	lo	yes
LA	lo	no

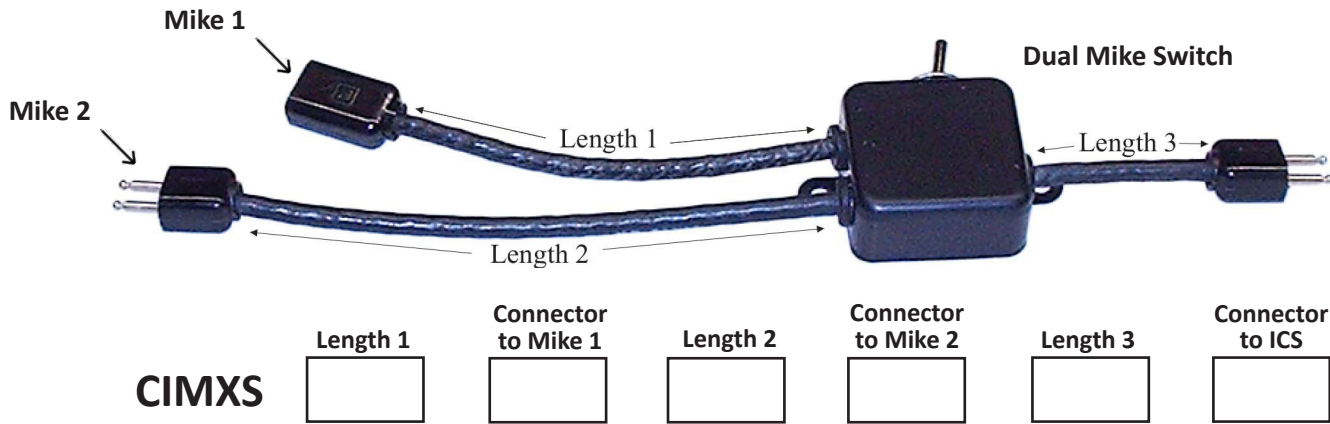
Earphones		
code	p/n	impedance
none	n/a	n/a
M	H-143/AIC	19 ohms*
H	CIE-300F	300 ohms*
600	CIE-600	600 ohms*
500	CIE-1000	1000 ohms*
1200	CIE-1200	1200 ohms*

Cable & Length	
code	description
K3	3 ft coil
K6	6 ft coil
/XX	XX ft straight
/2B	2 ft straight*
/3B	3 ft straight*

*braided

Plug	
Code	Description
74	TP-120 (civil helo)
74M	U-174/U (military)
75	U-75/U (USFS or USN)
NP	NATO (European)
NPS	NATO s/shroud
84	U-384/U (5 contacts)
YP	CIPC-055 & CIPC-068 (GA)
YPS	CIPS-051 & CIPC-068 (stereo)

Spare Parts & Accessories



Cable Length (use for length 1, 2 and 3)	
code	description
01	3/4 inch
06	6 inch
010	10 inch
012	12 inch
X	"X" feet

Connectors	
code	p/n
X	none
-73	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103
MJ	MP-113



CICLP-2098
(Polished)

CICLP-2098B
Bracket for Shell
Grommet and
Cable Jack



CICLP-2098B
Bracket for
Cable Jack

CITRM-M Terminal



2" Diameter

Earphone	
code	impedance
H-143/AIC	19 ohms
H-143/AIC	19 ohms
CIE-300F	300 ohms
CIEC-300	300 ohms
CIEC-600	600 ohms
CIEC-1000	1000 ohms
CIEC-1200	1200 ohms



CIVLP-HT4-W (White)
CIVLP-HT4-OD (Olive)
CIVLP-HT4-B (Black)
CIVLP-HT4-U (Blue)

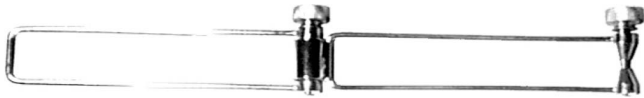


0.95" Diameter

Mini Earphone	
code	impedance
CIE-19M	19 ohms
CIE-300M	300 ohms

Boom Microphone Assemblies & Components

Hinged Wire Boom



Hinged Wire Boom

CI P/N	Finish	Length	Screw
CIBMA-2991-2	Black	7.7 inches	Thumb
CIBMA-3281	Nickel	6.7 inches	Thumb

Thumbscrew Replacements

code	finish
CITS-3183-1	Bright
CITS-3183-2	Black

Cable Clip Replacements

code	finish
CICLP-0093-3	Bright
CICLP-0093-2	Black

Swivel Wire Boom



Swivel Wire Boom

CI P/N	Finish	Length	Screw
CIBMA-2690-1	Black	6.7 inches	Nylock
CIBMA-2690-2	Black	6.7 inches	Thumb
CIBMA-4021-2	Black	7.7 inches	Thumb
CIBMA-4021-4	Nickel	7.7 inches	Thumb
CIBMA-4021-5	Black	8.8 inches	Thumb
CIBMA-4012	Nickel	6.7 inches	Thumb

CIBMA — 7483 —

Cable Length

Connector

Cable Length

code	description
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector

code	type
none	U-173/U
-72	U-172/U
-79	U-179A/U
MP	MP-103

Flex Boom



CIFB — 08

Boom Type

Length

Connector

Wire Boom

Boom Type

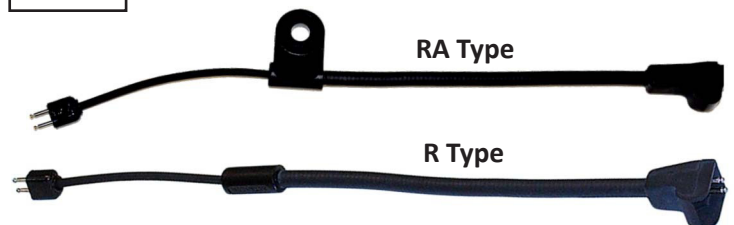
code	mount*
RA	std CIMA-2339-4
R	flex CIMA-FM

Length

code	description
03	3 inch
08	8 inch

Connector

see above



Windscreens



Electret

code	description
CIWS-E-1W	water resistant
CIWS-EW	with o-ring
CIWS-EN	high noise & wind

Dynamic

code	description
CIWX-D-1	M-101 type
CIWS-D	with o-ring

Boom Mounts



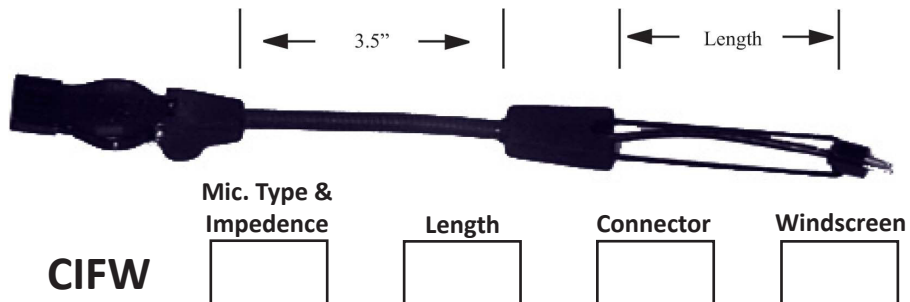
code	description
CIMA-2339-4	standard
CIMA-FM	Flex Boom
CIMA-6706-S	quick release w/ screws

Dynamic Boom Microphone Assemblies

Microphone Type & Impedance

code	type	impedance	mil spec	waterproof
87	M-87	5 ohms	yes	no
87W	M-87A	5 ohms	yes	yes
87C	M-87	5 ohms	no	no
101	M-101	5 ohms	yes	no
101C	M-101	5 ohms	no	no
87-75	M-87	75 ohms	yes	no
87C-75	M-87	75 ohms	no	no
87-150	M-87	150 ohms	yes	no
87W-150	M-87A	150 ohms	yes	yes
87C-150	M-87	150 ohms	no	no
101-150	M-101	150 ohms	yes	no
101C-150	M-101	150 ohms	no	no
101-75	M-101	75 ohms	yes	no
101C-75	M-101	75 ohms	no	no

Flex/Wire Boom



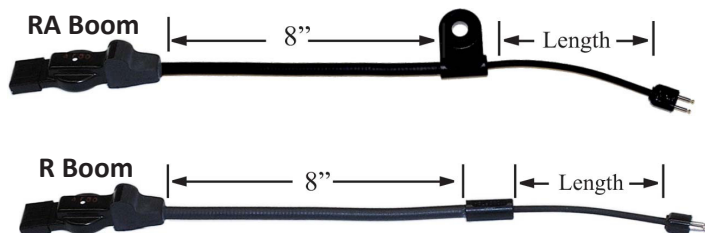
CIFW

Length	
code	description
04	3/4 inch
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
08	U-172/U
012	U-179A/U
018	MP-103

Windscreen	
code	description
none	no
W	yes

Flex Boom



CIFM

Microphone Type & Impedance
see above

Length	
code	description
none	none
08	8 inch
012	12 inch
018	18 inch

Boom Type	
code	description
R	std CIMA-23339-4*
W	flex CIMA-FM

*Removed inner discs

Windscreen
see above

Connector
see above

Wire Boom



CIBM

Microphone Type & Impedance
see above

Length	
code	description
none	none
08	8 inch
012	12 inch
014	14 inch

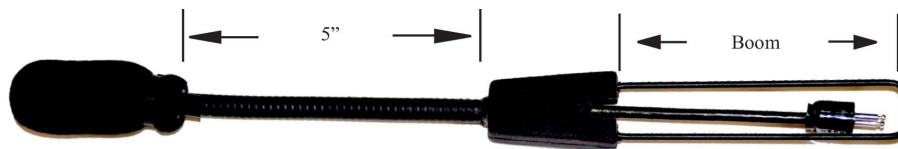
Boom	
code	finish
none	nickel
B	Black

Windscreen
see above

Connector
see above

Dynamic Boom Microphone Assemblies

Flex/Wire Boom



CIFW

Microphone Boom Length — Cable Length Connector Windscreen **W**

Microphone		
code	waterproof	impedence
D5	yes	5 ohms
D150	no	150 ohms

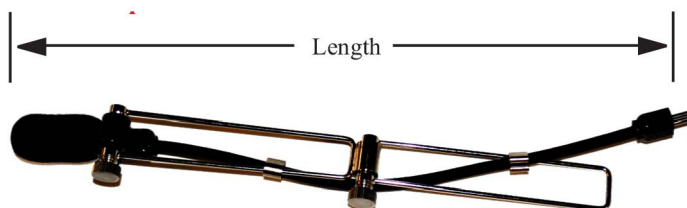
Boom Length	
code	length
none	2 inch
L	3 inch

Cable Length	
code	description
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103

Windscreen
included (CIFW101A-03 Shown Above)

Wire Boom



CIBM

Microphone — Cable Length Boom Connector Windscreen **W**
(included)

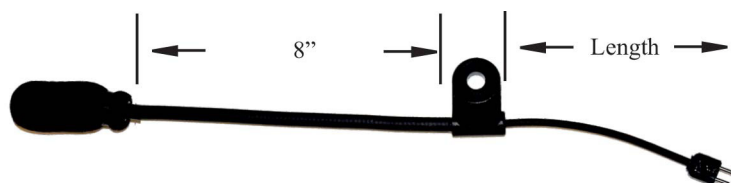
Microphone
see above

Cable Length	
code	description
none	none
08	8 inch
012	12 inch
018	18 inch

Boom	
code	finish
none	nickel
B	Black

Connector
see above

Flex Boom



CIFM

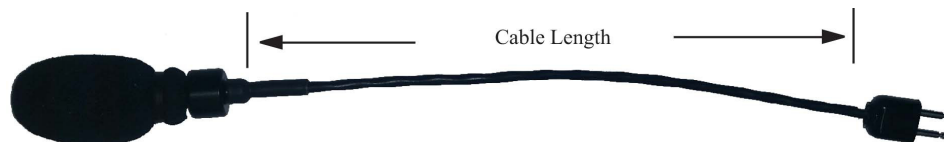
Microphone — Cable Length Connector Windscreen **W**
(included)

Microphone
see above

Cable Length	
code	description
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector
see above

Spare Cable For Wire Boom



CIM

Microphone — Cable Length Windscreen **W**
(included)

Microphone
see above

Cable Length
see above

Amplified Dynamic Boom Microphone Assemblies

Flex/Wire Boom



CIFW

Microphone	Gain	Length	Connector	Windscreen

Microphone		
code	type	waterproof
87	M-87	no
87W	M-87A	yes
101	M-101	no

Gain @ 28 vdc bias		
code	description	polar
A	std 58db	no
J	adj 42-58dB	no
P	std 62db	yes
PX	adj 43-63dB	yes
X	mas 71db	yes
XJ	adj 52-71dB	yes

Length	
code	description
04	4 inch
06	6 inch
012	12 inch

Connector to ICS	
code	type
none	U-173/U
-72	U-172/U
-79	U-179A/U
-MP	MP-03

Windscreen	
code	included
none	no
W	yes

Wire Boom



CIBM

Microphone	Gain	Cable Length	Boom	Connector	Windscreen

Microphone
see above

Gain
see above

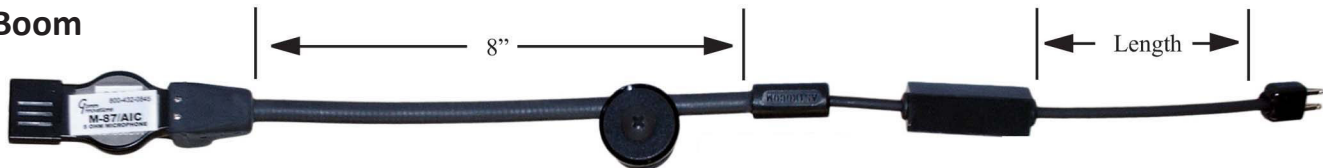
Length	
code	description
04	4 inch
06	6 inch
012	12 inch

Boom	
code	finish
none	nickel
H	nickel
B	black
BH	black

Connector to ICS
see above

Windscreen
see above

Flex Boom



CIFM

Microphone	Gain	Boom	Length 1	Connector	Length 2	Windscreen

Microphone
see above

Gain
see above

Boom Type	
code	description
R	std CIMT-23339-4*
W	flex CIMT-FM

Length	
code	description
03	3 inch
08	8 inch

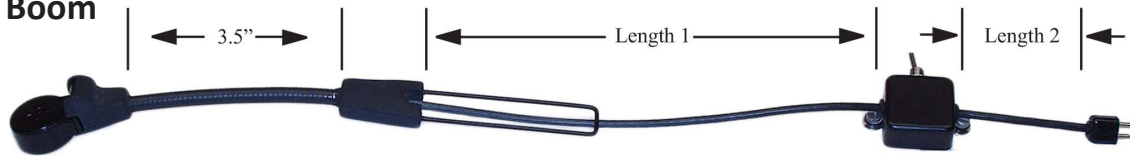
Connector to ICS
see above

Windscreen
see above

*Mold Sold Separately

Dynamic Boom Microphone Assemblies w/ Switchable Amplifier

Flex/Wire Boom



CIFW

Microphone	Gain	Length 1	Connector	Length 2	Windscreen

Microphone		
code	type	waterproof
87	M-87	no
87W	M-87A	yes
101	M-101	no

Gain @ 28 vdc bias		
code	description	polar
AS	std 58db	no
JS	adj 42-58dB	no
PS	std 62db	yes
PXS	adj 43-63dB	yes
XS	mas 71db	yes
XJS	adj 52-71dB	yes

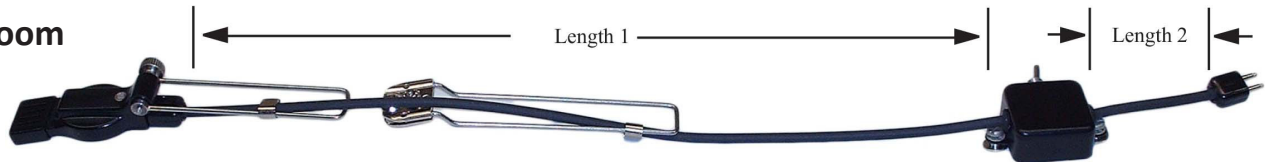
Length 1	
code	length
04	4 inch
06	6 inch
012	12 inch

Connector to ICS	
code	type
none	U-173/U
-72	U-172/U
-79	U-179A/U
-MP	MP-03

Length 2	
code	length
04	4 inch
06	6 inch
0XX	12 inch

Windscreen	
code	included
none	no
W	yes

Wire Boom



CIBM

Microphone	Gain	Length 1	Boom	Connector	Length 2	Windscreen

Microphone
see above

Gain
see above

Length 1	
code	length
06	6 inch
10	10 inch
012	12 inch

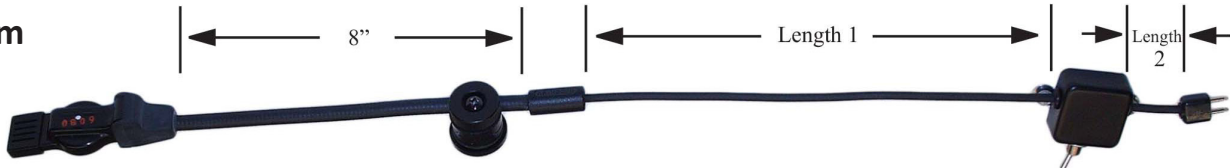
Boom	
code	finish
none	nickel
H	nickel
B	black
BH	black

Connector to ICS
see above

Length 2
see above

Windscreen
see above

Flex Boom



CIFM

Microphone	Gain	Length 1	Boom	Connector	Length 2	Windscreen

Microphone
see above

Gain
see above

Boom Type	
code	description
RA	std CIMT-23339-4*
R	flex CIMT-FM

*Mold Sold Separately

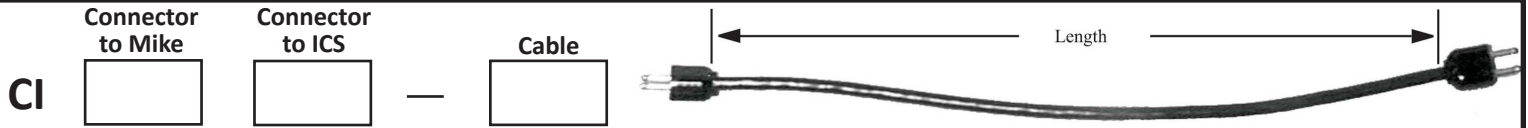
Length 1	
code	length
06	6 inch
10	10 inch
012	12 inch

Connector to ICS
see above

Length 2
see above

Windscreen
see above

Microphone Cables



Connector to Mike				
code	type		code	type
X	none		MJL	MJ-103
73	U-173/U		MJ	MJ-113
72	U-172/U		29	PJ-292
79	U-179A/U		K5	JJ-055
MP	MP-103		KJ8	CIJ-068

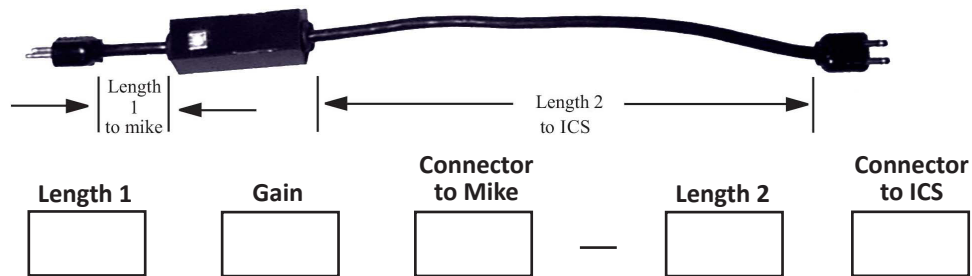
Connector to ICS				
code	type		code	type
X	none		29	PJ-292
73	U-173/U		J5	JJ-055
72	U-172/U		PJ	*PJ-292
79	U-179A/U		JJ	*JJ-055
MP	MP-103		68	CIPC-068
MJL	MJ-103		68M	PJ-068
MJ	MJ-113		J8	CIJ-068

Cable		
code	type	length
08	straight	8 inch
012	straight	12 inch
014	straight	14 inch
2	straight	2 ft
4	straight	4 ft
K2	coil	2 ft
K3	coil	3 ft
K5	coil	3 ft

*potentiometer built connector for micro sensitivity adjustment

Inline Microphone Amplifiers

Unshielded



Length 1*	
code	description
01	3/4 inch
06	6 inch
010	10 inch
012	12 inch
X	X ft

*coil cable also available on request

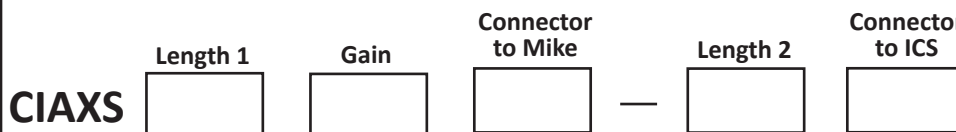
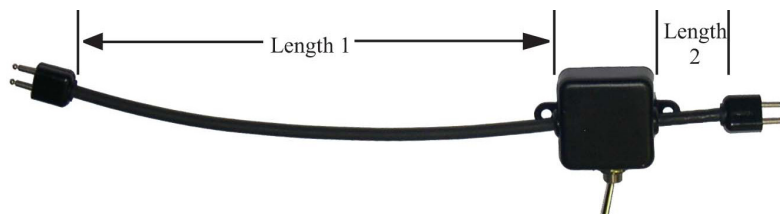
Gain @ 28 vdc bias		
code	description	polar
none	std 58db	no
J	adj 42-58dB	no
P	std 62db	yes
PJ	adj 43-63dB	yes
XS	mas 71db	yes
XJS	adj 52-71dB	yes

Connector To Mike	
code	description
X	none
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103
MJ	MJ-113

Length 2*	
code	description
01	3/4 inch
06	6 inch
010	10 inch
012	12 inch
X	X ft

Connector To ICS	
code	description
X	none
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103
MJ	MJ-113

Switchable & Shielded



Length 1
see above

Connector To Mike
see above

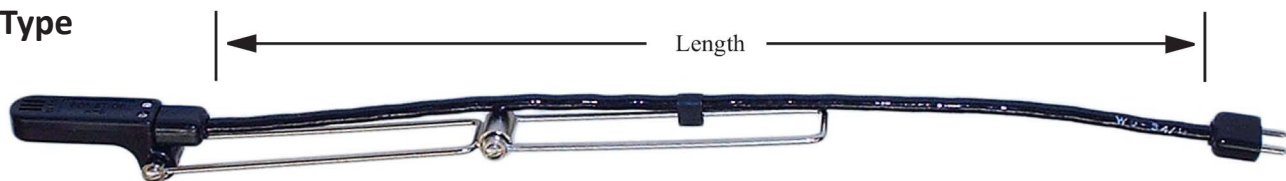
Connector to ICS
see above

Gaom @ 28 vdc bias
see above

Length 2	
code	description
02	2 inch
04	4 inch
0XX	XX inch

Electret Boom Microphone Assemblies w/ Wire Boom

A-9 Type



CIBM

Microphone Length Boom — Length 2 Windscreen

Microphone	
code	sensitivity
E9	high
E9M	medium

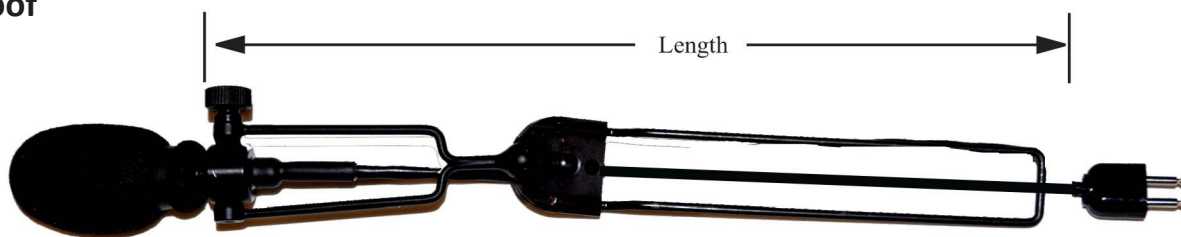
Length	
code	length
none	none
08	8 inch
012	12 inch
014	14 inch

Boom	
code	finish
none	nickel
B	Black

Connector	
code	type
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103

Windscreen	
code	included
none	no
W	yes
WR	water resistant
N	hi noise

Waterproof Type



CIBMEA

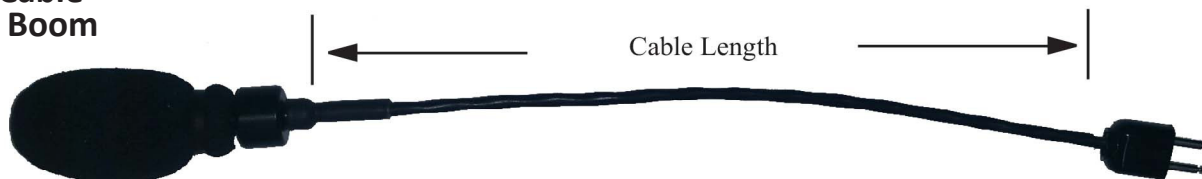
Cable Connector Windscreen

Cable Length	
code	length
01	1 inch
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector
see above

Windscreen
included

Special Cable For Wire Boom



CIMEA

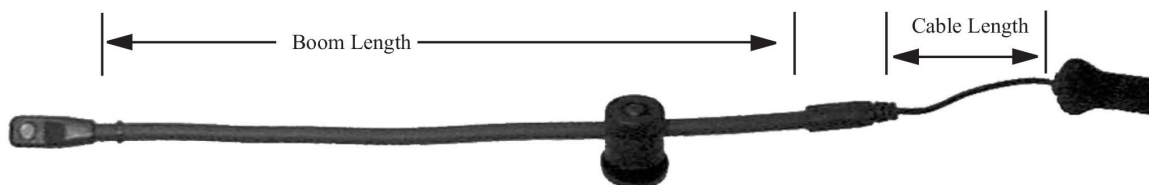
Cable Windscreen

Cable Length
see above

Windscreen
included

Electret Boom Microphone Assemblies w/ Flex Boom

756 Type



CIFME

Boom Length — Cable Length Connector Windscreen

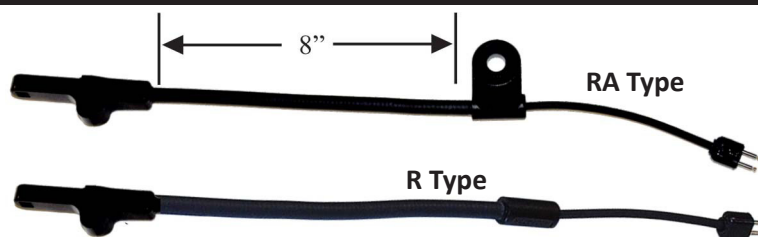
Boom Length	
code	length
S	8 inch
none	10 inch

Cable Length	
code	length
01	1 inch
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103

Windscreen	
code	included
none	no
W	yes
WR	water resistant
N	hi noise

A-9 Type



CIFM

Microphone Boom Type — Cable Length Connector Windscreen

Microphone	
code	sensitivity
E9	high
E9M	medium

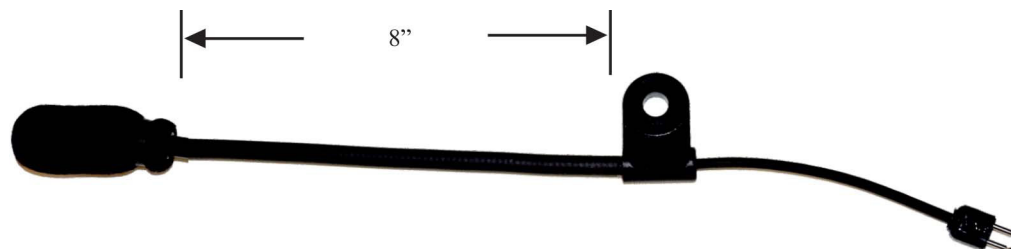
Boom Type	
code	description
RA	std CIMT-23339-4
R	CIMT-FM

Cable Length
see above

Connector
see above

Windscreen
see above

Waterproof Type



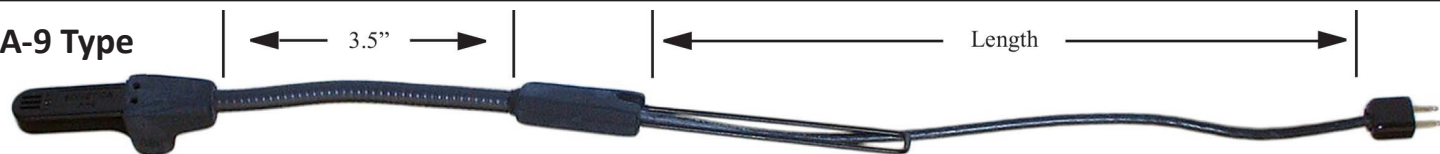
CIFMEA

Cable Length Connector Windscreen

Cable Length Connector Windscreen

Electret Boom Microphone Assemblies w/ Combination Flex/Wire Boom

A-9 Type



CIFW978-08 Shown Above

CIFW

Boom
Length

Cable
Length

Connector

Windscreen

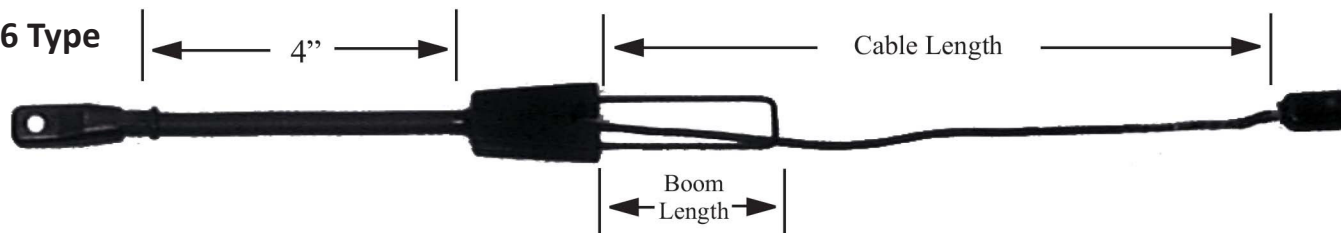
Boom Length	
code	length
S	8 inch
none	10 inch

Cable Length	
code	length
01	1 inch
04	4 inch
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
72	U-172/U
79	U-179A/U
MP	MP-103

Windscreen	
code	included
none	no
W	yes
N	hi noise

756 Type



CIFWES

Cable
Length

Boom
Length

Connector

Windscreen

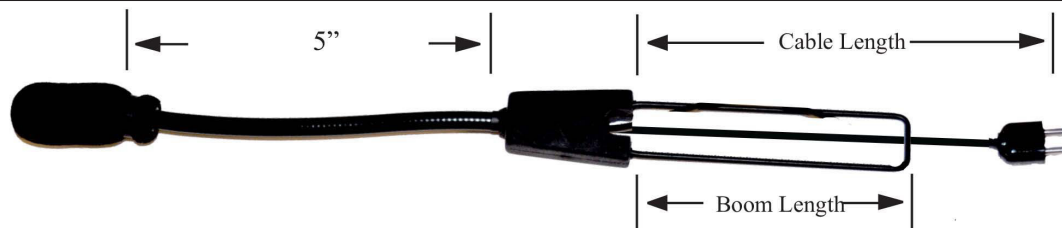
Cable Length
see above

Boom Length	
code	length
none	2 inch
L	3 inch

Connector
see above

Windscreen
see above

Waterproof Type



CIFWES

Cable
Length

Boom
Length

Connector

Windscreen

Cable Length
see above

Boom Length
same as 756 Type

Connector
see above

Windscreen
see above

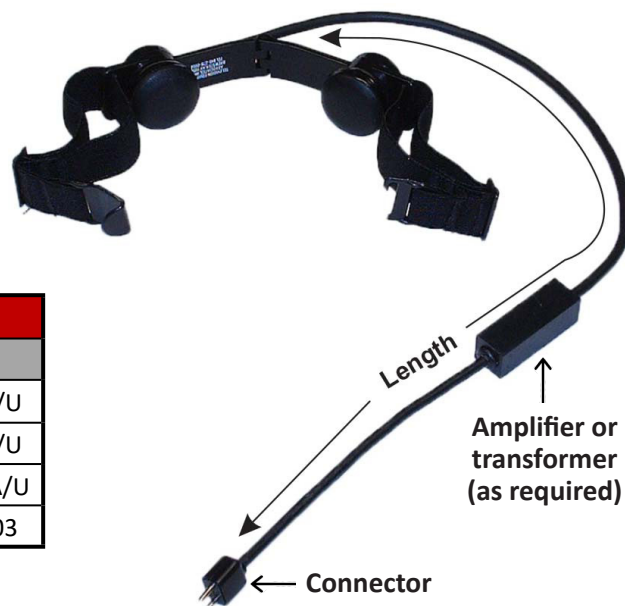
Throat Microphone

CITM 150

Microphone

Length

Connector

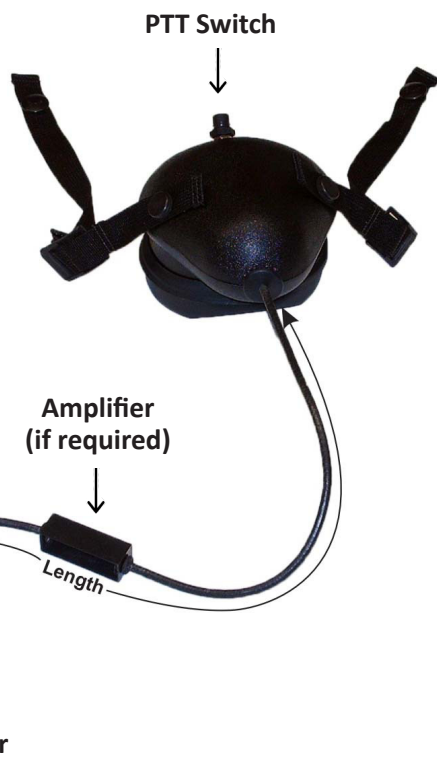


Microphone		
code	type	impedance
none	dynamic	150 ohms
T5	dynamic	5 ohms
A	amplified	civilian
AJ	adjustable	civilian
AS	shielded	civilian

Length	
code	included
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
-72	U-172/U
-79	U-179A/U
-MP	MP-103

Muff Type Microphone



Push to Talk	
code	included
none	no
P	yes

Microphone (M-101/AIC)		
code	type	impedance
none	dynamic	5 ohms
75	dynamic	75 ohms
150	amplified	150 ohms
A	amplified	civilian
AJ	adjustable	civilian
AS	shielded	civilian

Length	
code	included
08	8 inch
012	12 inch
018	18 inch

Connector	
code	type
none	U-173/U
-72	U-172/U
none	U-179A/U
-72	MP-103

CICM101

Push to Talk

Microphone

Length

Connector

In-Line Volume Controls



Volume Control

TJT-120 Jack → ← U-93A/U Plug

Application Type		
code	Application	Potentiometer
H	Civil Helicopter	2000 ohms commercial
L	Military	500 ohms commercial
M	Military	100 ohms mil spec

Grounded*	
code	included
none	yes
A	no

Clothing Clip	
code	included
none	no
P	yes

CIV — **93**

* Grounded volume control, no sound when turned all the way down. Undergrounded volume control, sound reduced but not off when volume turned down.



Volume Control

Jack → ← Plug

LENGTH

CIV —

Application Type		
code	Application	Potentiometer
H	Civil Helicopter	2000 ohms commercial
L	Military	500 ohms commercial
M	Military	100 ohms mil spec
G	Gen. Aviation	2000 ohms commercial
GS	Gen. Av'n Stereo	dual 2000 ohms

Grounded*	
code	included
none	yes
A	no

Clothing Clip	
code	included
none	no
P	yes

Cable & Length		
code	description	type
06	6 inch	straight
OXX	XX inch	straight
x	X Feet	straight
K3	3 Feet	coil
K6	6 Feet	coil

* Grounded volume control, no sound when turned all the way down. Undergrounded volume control, sound reduced but not off when volume turned down.

Potentiometers



Commercial Potentiometers w/ nut & washer	
code	description
CIPOT-1-500	500 ohms
CIPOT-1-2000	2,000 ohms



Mil Spec Potentiometers w/ nut & washer Windscreen	
code	included
CIPOT-1-100	100 ohms
CIPOT-1-2000	2,000 ohms
CIPOT-1-10K	10,000 ohms



Volume Control Knob	
code	description
CIKNB-303TPN	



Volume Control (helmet spares)	
code	description
CIVL-PM	500 ohms
CIVH-PM	2,000 ohms



About Our Company

CommInnovations was incorporated in November 1994 with the objective to provide customized communication equipment and solutions to our customers in the aviation market. The target customer base was helicopter operators in law enforcement, border patrol, firefighting and emergency medical communities.

We have developed a reputation as problem solvers, which has led to an expansion of our line of aviation communications products. Our first product was switch and cable assemblies, with a typical unit having a slide switch to key the intercom, a PTT to key aircraft radios and a volume control. The cable to the aircraft can be coil or straight with varying length, as specified by the customer. Our ergonomically designed switch case has enhanced ruggedness through the use of over-molded strain reliefs at the known weak points of previous designs. These improved features of switch and cables were readily received in the targeted markets and today the company enjoys the lead market position in the US and has a significant share of the global market for this product.

CommInnovations has four distributors. Two are domestic, one is in Europe and one is in the Asia Pacific Rim. We also have a network of OEM's (Original equipment Manufacturers) and dealers worldwide. This lead position has not deterred the company from improving our products. Our designs have been modularized using components terminated in miniature connections. These improvements permit the user to make solderless repairs & reconfigurations that are common in the industry. CommInnovations has also adapted its products for use with active noise reduction (ANR) headsets often used in aviation today.

All of the products are assembled and tested on-site, with outsourced sub-assemblies and components selected from potential vendors for quality, economy and customer service. Fast turn-around times has been a key to CommInnovations' success. We pride ourselves in supporting our community by using local vendors where possible.

We look forward to many more years of continued success. Thank you for choosing CommInnovations for your aviation communication needs.

www.comm-innovations.com



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