



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ITT

Interconnect Solutions
Cannon, VEAM, BIW

Providing **100% reliable**
electrical connections for over **65 years**
on commercial and **military aircrafts**
and over a **150 billion** miles flown



Engineered for life

DPXA - Single Shell DPX

DPXA connectors are one-piece shell miniature rack/panel connectors. The construction offers high strength and maximum utilization of insert area for contact arrangements accommodating up to 106 contacts. Shells are keystone-shaped for polarization. Operating temperature for the DPXA is -54.2°C to +125°C (-67°F to +257°F).



DPXA-34



DPXB-33

DPXB - Polarized ARINC Shell

DPXB connectors are DPXA connectors with an ARINC B shelf. Additional polarization is provided by three hexagonal polarizing posts.

DPX2 - Two Gang DPX Series

DPX2 connectors are the original two-gang versions of the DPX, and are made of the same materials and accommodate the same contact arrangements. Keystone shaped shells accommodate two DPX inserts with up to 212 contacts. The DPX2 has three polarizing posts with 99 polarizing positions.



DPX2-34B



DPX2-33B

DPX2 - A - ARINC A Shell

DPX2-A connectors are DPX2 connectors with an ARINC A shell. This shell type has the receptacle flange placed .344 (8.74) from the front of the engaging portion of the shell, and short aluminum alloy polarizing posts permit polarization before contacts engage.

DPX2-B - ARINC B Shell

DPX2-B connectors supersede the DPX2-A and have an ARINC B Shell. This Shell type has the

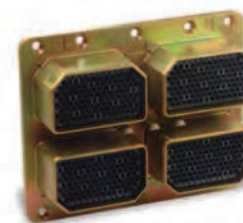
receptacle flange placed .060 (1.52) from the front of the engaging portion of the shell, and polarizing posts permit polarization before the shells engage.

DPX3 - Three Gang DPX Series

DPX3 connectors are three-gang versions of the DPX, made of the same materials, and accommodate the same contact arrangements. The three-gang version can therefore accommodate up to a total of 318 in the keystone shaped shells, with three polarizing posts that are capable of providing up to 99 polarizing positions.



DPX3-34



DPX4-33

DPX4 - Four Gang DPX Series

DPX4 connectors are four gang versions of the DPX, made of the same materials, and can accommodate four separate arrangements that can total up to 424 contacts. The DPX4 has three polarizing posts with 99 polarizing positions.

DPX*MA - LITTLE CAESAR' Contact Assembly

DPX*MA connectors are DPX connectors with the LITTLE CAESAR contact assembly for rear insertion, release, and extraction of crimp type contacts. Insertion requires no tool; extraction requires an expendable plastic tool. A hard dielectric, closed-entry socket insert has lead-in chamfers for positive mating of contacts. Contacts are crimpable with the M22501 tool.

DPX*ME - Environmental with LITTLE CAESAR Contact Assembly

DPX*ME connectors are DPXMA connectors with environmental interfacial and grommet seals, and olive drab shell finish.

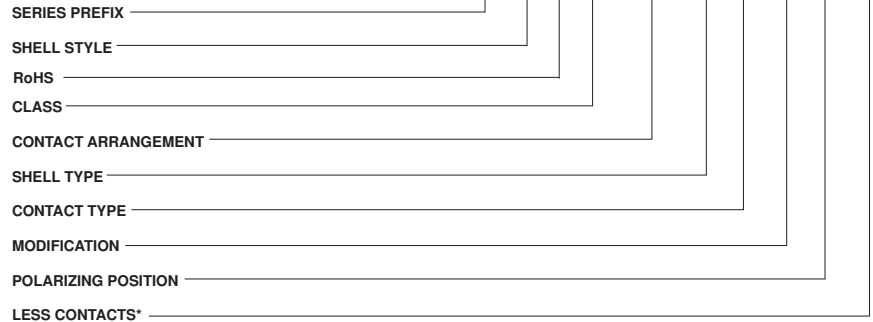
Performance and Material Specifications (DPXA/DPXB/DPX*MA/DPX*ME)

		DPXA/DPXB/DPX2	DPX*MA/DPX2*MA/ME	Specifications
Shell	Material	Aluminum alloy	Aluminum alloy	QQ- A-591/A380
	Finish	Cadmium plate with yellow chromate	Cadmium plate with yellow chromate for MA; olive drab for ME	QQ-P-416
Insulator	Material	Melamine or Phenolic	Diallyl phthalate or epoxy	MIL-M-14
	Material	Copper alloy	Copper alloy	QQ-C-533
Contacts	Finish	Gold	Gold	MIL-G-45204
	Termination	Solder Pot	Crimp	N/A
Polarizing Posts	Material	Die Cast	Die cast	
	Finish	Cadmium	Cadmium	QQ-P-416
Screws & Lockwashers	Material	Steel	Steel	QQS-630-637
	Finish	Cadmium Plate	Cadmium plate	QQ-P-416
Seals	Material	N/A	Silicone	N/A

How to Order

DPXA/DPXB

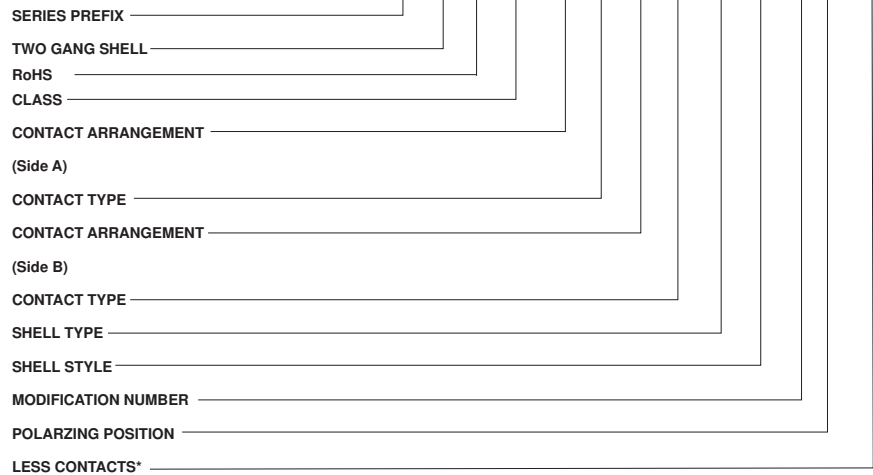
DPX A 32C2 - 34 P - 1
DPX B R MA - 67 - 33 S - 00 01 - F0



SERIES PREFIX DPX - ITT designation	CONTACT ARRANGEMENT 2 thru 106 (see pages H-50 to H-54)
SHELL STYLE A - Single shell B - Polarized ARINC shell	SHELL TYPE 33 for plug; 34 for receptacle
RoHS version R - RoHS compatible	CONTACT TYPE P for pin; S for socket
CLASS No designator - Solder type MA - Crimp type with LITTLE CAESAR contact assembly ME - Environmental crimp type MB - Wire separator MK - Mounting springs	MODIFICATION DPXA - See page H-66 to H-69 DPXB - See pages H-66 to H-69.
	POLARIZING POSITION For DPXB shell style only

DPX2

DPX 2 57 P - 57 P - 33 B - 00 01
DPX 2 MA 57 P - 57 P - 33 A - 03 01
DPX 2 R MA 57 P - 57 P - 34 B - 02 01 - F0



SERIES PREFIX DPX - ITT Cannon designation	CONTACT ARRANGEMENT 2 thru 106 (see pages H-50 to H-54)	SHELL STYLE No designator - original two-gang DPX A - ARINC A shell B - ARINC B shell
SHELL 2 - Two gang	CONTACT TYPE P for pin; S for socket	MODIFICATION See pages H-66 to H-69.
RoHS R - RoHS compatible	SHELL TYPE 33 for plug; 34 for receptacle	POLARIZING POSITION See pages H-70
CLASS No designator - Solder type MA - Crimp type with LITTLE CAESAR contact assembly ME - Environmental crimp type		



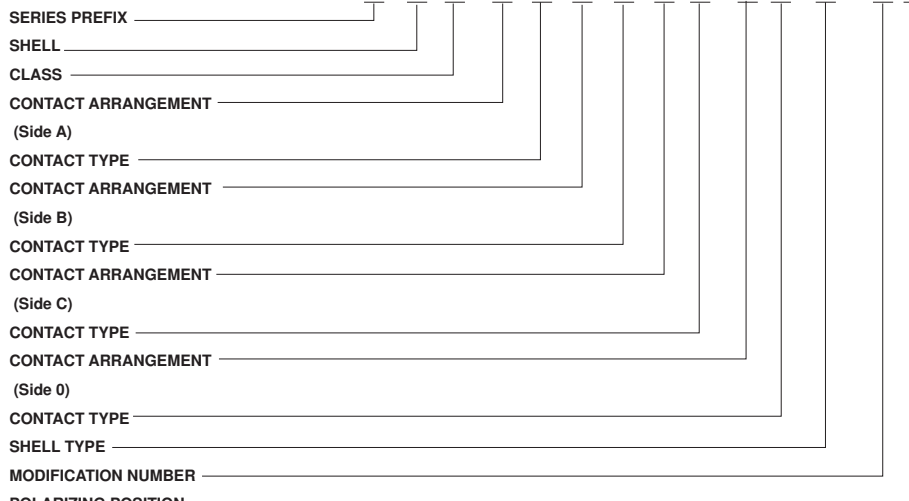
Rack and Panel



How to Order

DPX3/DPX4

DPX 3 ME -57 P -57 P -57 P -34 -00 01
 DPX 4 ME -57 P -57 P -57 P -57 P -34 -00 01



SERIES PREFIX

DPX - ITT designation

SHELL

3 - Three gang 4 - Four gang

CLASS

MA - Crimp type contacts in LITTLE CAESAR contact assembly
 ME - Environment- resistant, crimp type contacts

***CONTACT ARRANGEMENT**

See pages H-50 to H-54 for applicable arrangements. Please specify each arrangement number as indicated in ordering nomenclature for 3 or 4 gang if not listed below.

ROHS Finish Zinc Plate per ASTM-B-633 with Trivalent Chromate Coating

MODIFICATION NUMBER

POLARIZING POSITION

****CONTACT TYPE**

P for pin; S for socket. Designation follows each arrangement as ordered for 3 or 4 gang versions.

SHELL TYPE

33 for plug; 34 for receptacle

MODIFICATION See pages H-66 to H-69.

POLARIZING POSITION See pages H-70

DPXMA/ME

DPXMA/DPXME - 0PX - 3 Shell Layouts

Layout	Insert - Used in shell position as noted					
	MA:	W8	32W4	57	67	A106
	ME:	AW8	A32W4	57	67	A106
*E24		A,B,C				
*F122		A,B				C
G122		B		A,C		
*E142		C			A,B	
*A166			C		A,B	
171				A,B,C		
201					A,B,C	
*C205			C		A	B
B240					A,C	B
C240					A,B	C
*D244			C			A,B
A279					C	A,B
A318						A,B,C

*Applicable to "ME" only. Consult factory for similar layouts application to "MA."

NOTE: For pictorial views of above layouts see pages 52-56.

DPXMA/DPXME - 0PX - 4 Shell Layouts

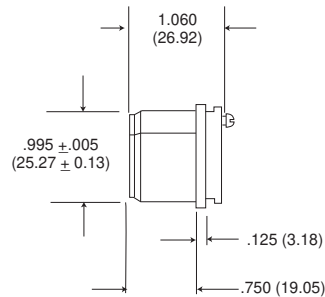
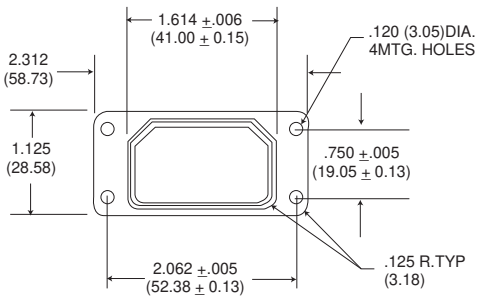
Layout	Insert - Used in shell position as noted							
	MA:	W8	26	32W4	57	67	A106	None
	ME:	AW8	26	A32W4	57	67	A106	None
145			A,B,C			D		
*B148		C,D	B				A	
B150		A,B			A,C	C,D		
*181		B			A		C	D
*B189		C,D				B	A	
*A198				C,D	A,B,C	A,B		
268						A,B,C,D		
*E287		D				B	A,C	
*220		B					C,D	A
*A233				A		B,C,D		
279						A	C,D	B
*F287		B				A	C,D	
*E326		B					A,C,D	
A346						C,D	A,B	
B346						A,B	C,D	
385						A	B,C,D	
A424							A,B,C,D	



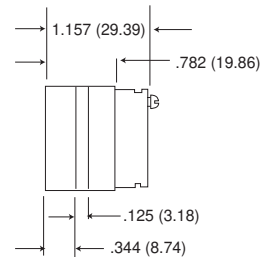
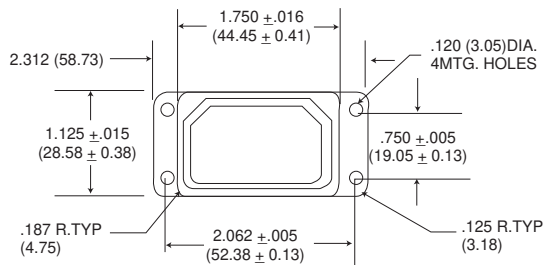
Single Gang

DPXA-33

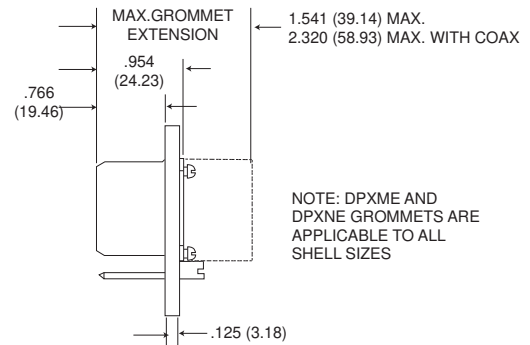
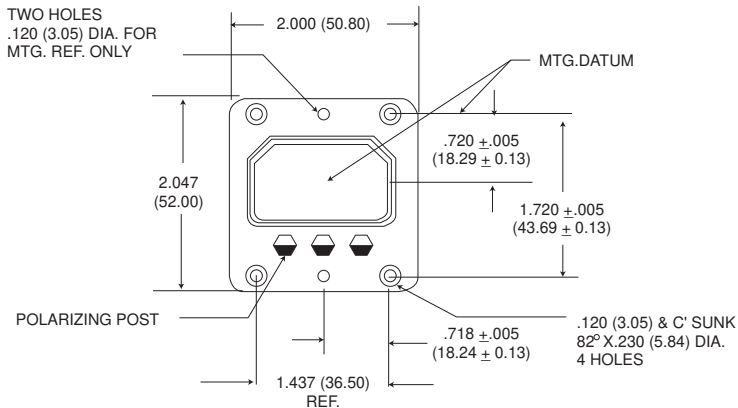
All tolerances $\pm .015(0.38)$ unless otherwise noted.



DPXA-34

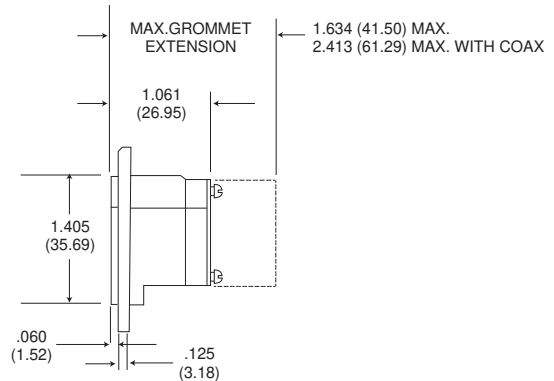
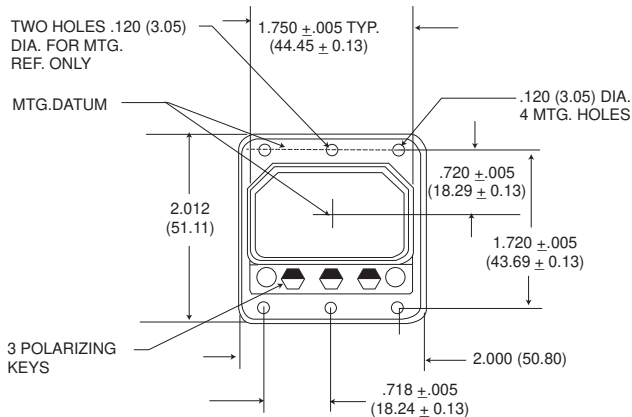


DPXA-33 ARINC Shell



NOTE: DPXME AND DPXNE GROMMETS ARE APPLICABLE TO ALL SHELL SIZES

DPXA-34 ARINC Shell



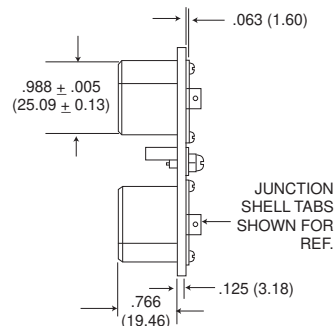
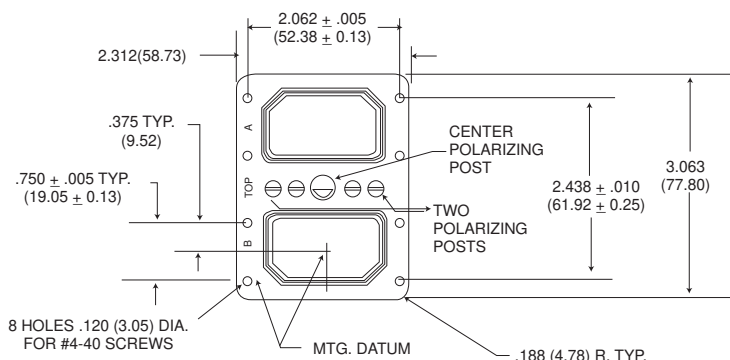
NOTE - ARINC requires that DPXB shells are mounted with the polarizing posts at the top. See pages 71-72

Dimensions shown in inches (mm)
Specifications and dimensions subject to change

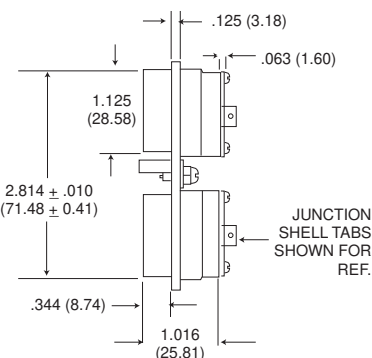
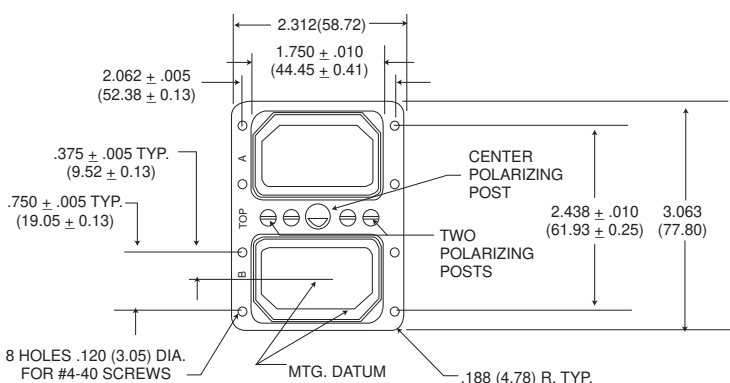
Two Gang

DPX2-33 Shell

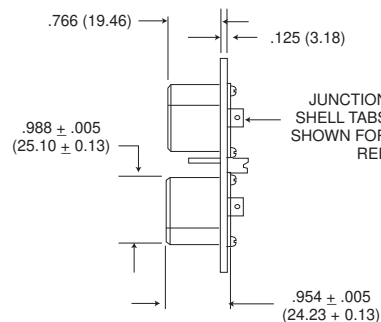
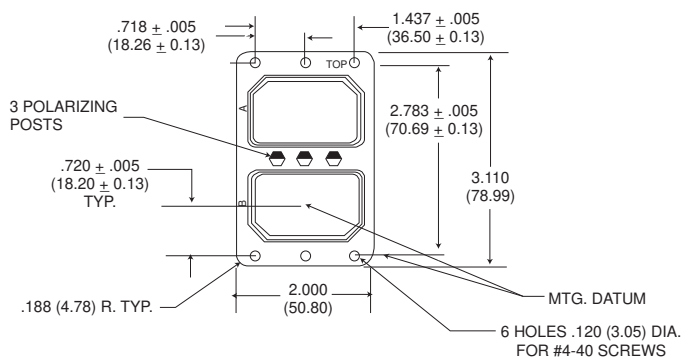
All tolerance are $\pm .015$ (0.38) unless otherwise noted.



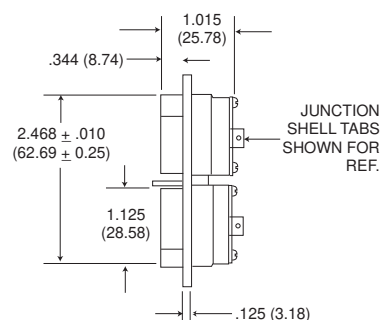
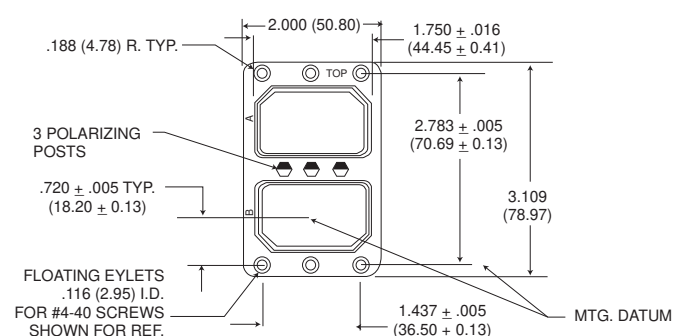
DPX2-34 Shell



DPX2-33A ARINC A Shell



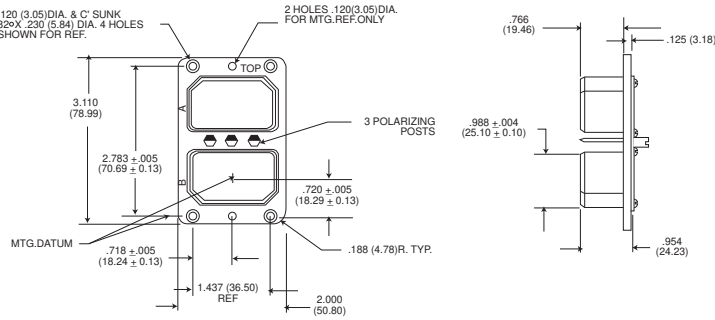
DPX2-34A ARINC A Shell



Dimensions shown in inches (mm)
Specifications and dimensions subject to change

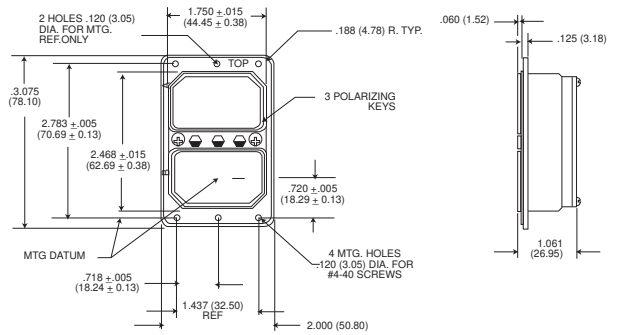
Two Gang - ARINC B Shell

DPX2-33B



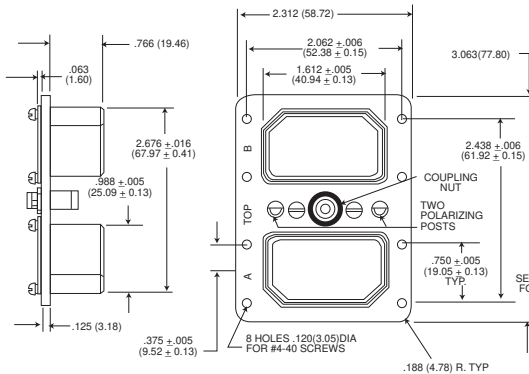
DPX2-34B

All tolerances are ± .015(0.38) unless other wise noted.

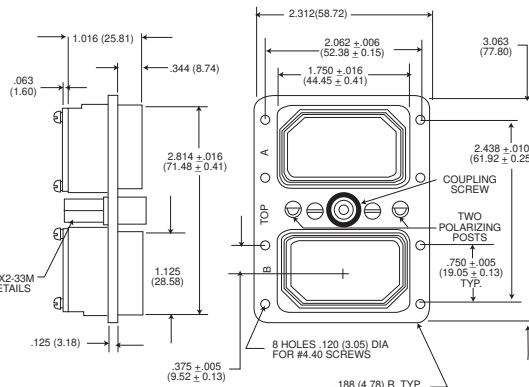


Two Gang - Screw Coupling

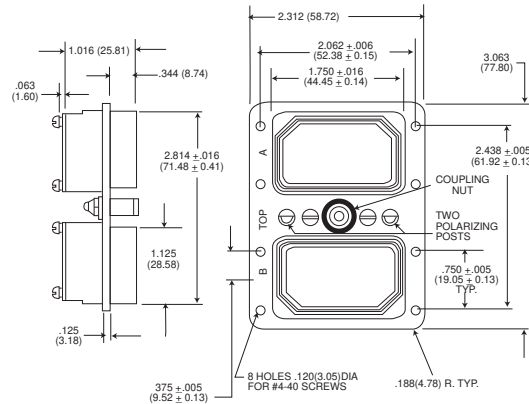
DPX2-33F (Female)



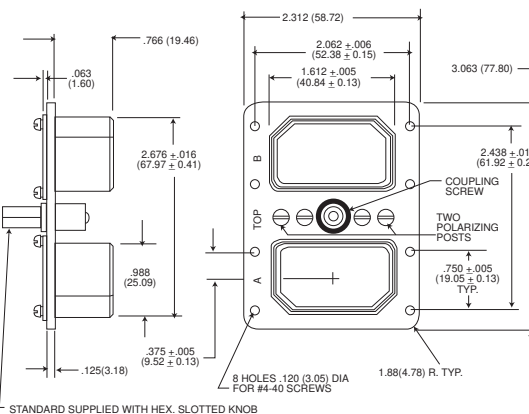
DPX2-34M (Male)



DPX2-34F (Female)

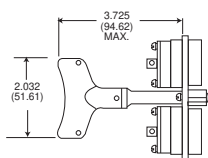


DPX2-33M (Male)

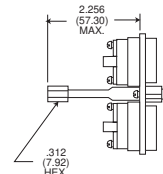


Engaging Devices

DPX2-34M with wing handle type
-0901; example, DPX2-34M-0901



DPX2-34M with extended hex,
knob type -0501; example, DPX2-34M-0501



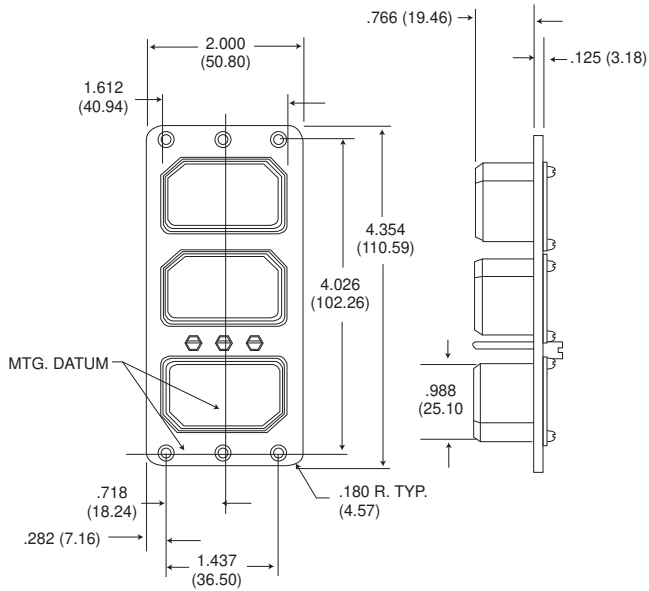
Not available on DPX2-34B Shells



Dimensions shown in inches (mm)
Specifications and dimensions subject to change

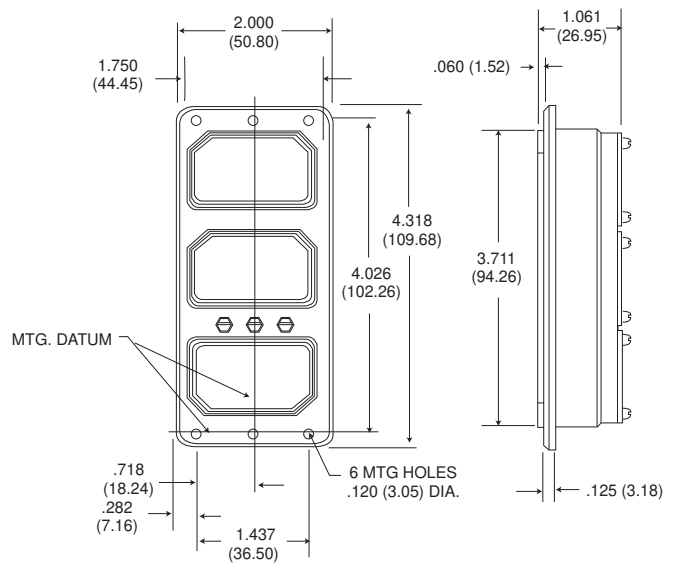
Two Gang - ARINC B Shell

DPX3-33



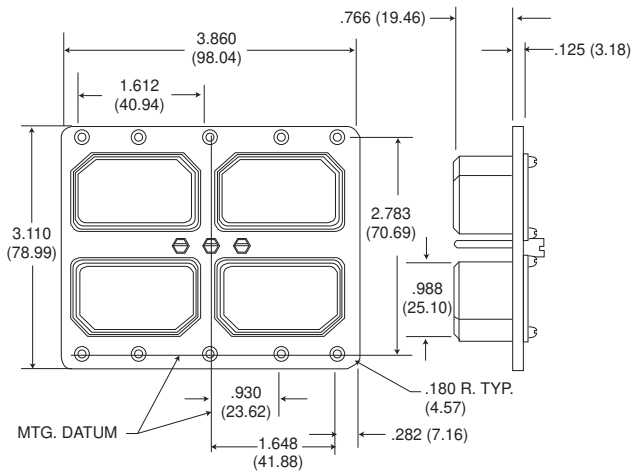
DPX3-34

All tolerances are $\pm .015$ (0.38) unless otherwise noted.

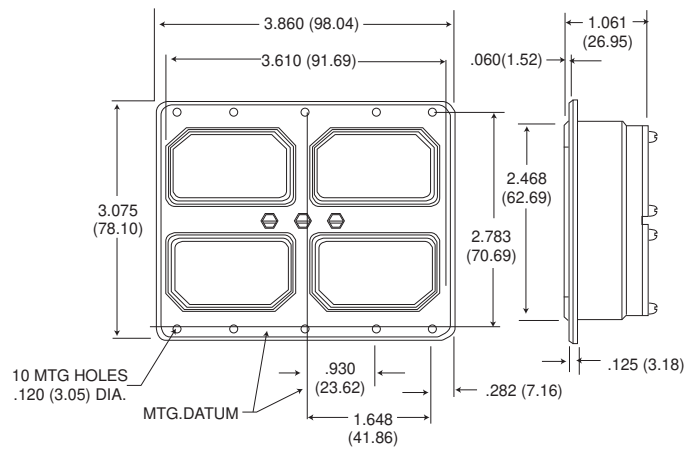


Four Gang

DPX4-33



DPX4-34



Contact Arrangement Variations Solder Type (Captive Contacts)

NOTE: See pages 59-60 for Coaxial/Power Contact Termination Data

H

Rack and Panel

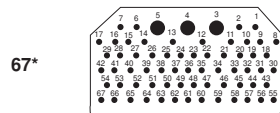
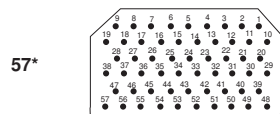
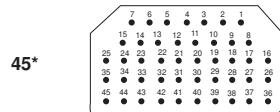
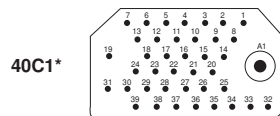
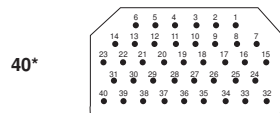
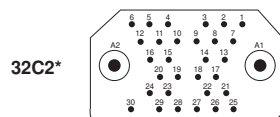
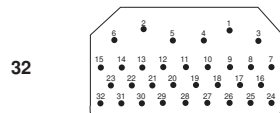
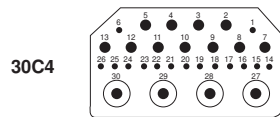
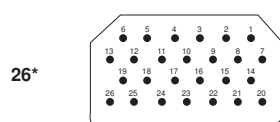
Contact Arr.	No. of Contacts & Wire size	Test Voltage AC (RMS)	PIN			SOCKET			
			Contacts Arr. No.	No. of Contacts	Contact Type Code	Contact Numbers	No. of Contacts	Contact Type Code	Contact Numbers
C2	2 coax (RG-9/U)	1000 (1,2)V matched impedance	C2	2	R	1-2	2	R	1-2
			C2C	2	AB	1-2	Consult Factory		
			C2M	Consult Factory			2	AC	1-2
C7	7 coax	1000 (1-7)V	C7	7	K	1-7	4	F	1,2,4,5
							3	G	3,6,7
			C7A	7	A	1-7	Same as Pin		
			C7B	7	B	1-7	Same as Pin		
			C7B	Same as Socket (Use C7)			7	K	1-7
			C7M	7	C	1-7	Same as Pin		
			C7X	7	AA	1-7	Same as Pin		
			C7AA	7	Z	1-7	Same as Pin		
8	8 #12	2000V	8	N	1-8	8	0	1-8	
10C3*	7 #20 3 coax	1500 (1-4, 8-10)V	10C3	7	L	1-4, 8-10	Same as Pin		
				3	I	5,6,7			
			A10C3	7	L	1-4, 8-10	Same as Pin		
B16C3*	13 #16 3 coax	1500 (4-16)V 1000 (1-3)V		3	J	5,6,7			
			B16C3	13	M	4-16	Same as Pin		
				3	A	1-3			
			C16C3	13	M	4-16	Same as Pin		
				3	B	1-3			
			G16C3	13	M	4-16	Same as Pin		
				3	C	1-3			
J16C3	13	M	4-16	Same as Pin					
	3	K	1-3						
ZE16C3	13	M	4-16	Same as Pin					
	3	Z	1-3						
ZF16C3	13	M	4-16	Same as Pin					
	3	AA	1-3						
17	17 #20	2000V	17	17	L	1-17	Same as Pin		
23	23 #20	2000 (15-23). 1500 (1-14)V.	23	23	L	1-23	Same as Pin		
25C3*	22 (#20). 3 coax	1500 (4-25)V. 1000 (1-3)V	25C3	22	L	4-25	22	L	4-25
				3	K	1-3	2	F	1,3
			F25C3	22	L	4-25	1	G	2
				3	C	1-3	Same as Pin		
			G25C3	22	L	4-25	Same as Pin		
				3	A	1-3			
			J25C3	22	L	4-25	Same as Pin		
	3	B	1-3						
Q25C3	22	L	4-25	Same as Pin					
	3	Z	1-3						
R25C3	22	L	4-25	Same as Pin					
	3	AA	1-3						



Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Contact Arrangement Variations Solder Type (Captive Contacts)

NOTE: See pages 59-60 for Coaxial/Power Contact Termination Data



Contact Arr.	No. of Contacts & Wire Size	Test Voltage AC (RMS)	PIN			SOCKET			
			Contact Arr. No.	No. of Contacts	Contact Type Code	Contact Numbers	No. of Contacts	Contact Type Code	Contact Numbers
26*	26 #16	1500V	26	26	M	1-26		Same as Pin	
30C4	15 #20, 11 #16, 4 coax	1500 (2-5 & 7-13)V 1000 (1,6 & 14-26)V	A30C4	15 11 4	L M Z	1,6 14-26 2-5, 7-13 27-30		Same as Pin	
			B30C4	15 11 4	L M AA	1,6 14-26 2-5, 7-13 27-30		Same as Pin	
			C30C4	15 11 4	L M A	1,6 14-26 2-5, 7-13 27-30		Same as Pin	
32	3 #16 29 #20	2000 (1-6) 1500 (7-32)V	32	29 3	L M	1,3,4,7-32 2,5,6		Same as Pin	
			32C2	30 2	L K	1-30 A1, A2	30 2	L F	1-30 A1, A2
32C2*	30 #20 2 coax	1500 (1-30)V 1000 (A1, A2)V	A32C2	30 2	L A	1-30 A1, A2		Same as Pin	
			C32C2	30 2	L B	1-30 A1, A2		Same as Pin	
			D32C2	30 2	L C	1-30 A1, A2		Same as Pin	
			M32C2	30 2	L Z	1-30 A1, A2		Same as Pin	
			N32C2	30 2	L AA	1-30 A1, A2		Same as Pin	
			40	40 #20	1500V	40	40	L	1-40
40C1*	39 #20 1 coax	1500 (1-39)V 1000 (A1)V	40C1	39 1	L B	1-39 A1		Same as Pin	
			A40C1	39 1	L K	1-39 A1	39 1	L F	1-39 A1
			F40C1	39 1	L C	1-39 A1		Same as Pin	
			J40C1	39 1	L Z	1-39 A1		Same as Pin	
			K40C1	39 1	L AA	1-39 A1		Same as Pin	
			L40C1	39 1	L A	1-39 A1		Same as Pin	
45*	45 #20	1500V	45	45	L	1-45		Same as Pin	
57*	57 #20	1500V	57	57	L	1-57		Same as Pin	
67*	64 #20 3 #16	1000V	67	64 3	L M	1-2,6-65 3-5		Same as Pin	

Dimensions shown in inches (mm)
Specifications and dimensions subject to change



H

Rack and Panel

Contact Arrangement Variations, Crimp Type - DPX*MA/ME Series

NOTE: See pages 62-65 for Coaxial Contact data
See pages 57-58 for Crimp Contact data

Rack and Panel

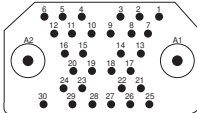
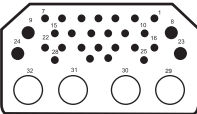
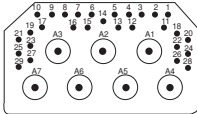
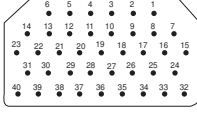
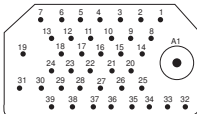
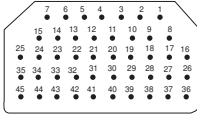
H

	Contact Arr.	No. of Contacts & Wire Size	Test Voltage AC (RMS)	Contact Arr. No.	No. of Contacts	Contact Size or Code Letter	Contact Numbers
8		8 #12		8	8	12	1-8
D8		4 #16, 4 #12		D8	4	16 12	1-4 5-8
W8**		8 coax	1000V (1-8)V	W8 C8A C8B C8C C8E C8G C8H	8	coax G F H R S AB	1-8
10		2 #8, 8 #20	1500V	10	2 8	B 20	1,2 3-10
A10		8 #16, 2 #4	1500V	A10	8 2	16 4	1-3, 5, 6, 8-10 4, 7
10W3**		7 #20, H.D., 3 coax	1500 (1-4, 8-10)V	10W3 A10C3 B10C3	7 3 7 3 7 3	20 H.D. coax 20 H.D. AC 20 H.D. AC	1-4, 8-10 5-7
B16W3**		SOCKET ONLY B16W3	1500 (4-16) 1000 (1-3)V socket side only (Not available in ME series)	B16W3	13 3	16 coax	4-16 1-3
25W3		22 (#20) 3 coax	1500 (4-25)V, 1000 (1-3)V (Not available in ME series)	25W3 25A3 25B3 25D3	22 3 22 3 22 3 22 3	20 coax 20 C 20 D 20 B	4-25 1-3
26		26 #16	1500V	26	26	16	1-26

**Crimp rear release coaxial contacts.

Contact Arrangement Variations, Crimp Type - DPX*MA/ME Series

NOTE: See pages 62-65 for Coaxial Contact data
See pages 57-58 for Crimp Contact data

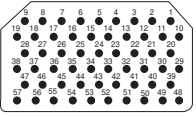
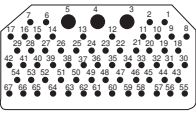
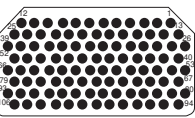
Contact Arr.	No. of Contacts & Wire Size	Test Voltage AC (RMS)	Contact Arr. No.	No. of Contacts	Contact Size or Code Letter	Contact Numbers
32W2 	32W2** (For MA) A32W2 (For ME) 30 #20, 2 coax	1500 (1-30), 1000 (A1,A2)V	32W2	30	20 coax	
			32A2	2	20 B	
			32B2	2	20 A	
			32C2	2	20 D	1-30 A1,A2
			D32C2	2	20 J	
			32F2	2	20 P	
			32G2	2	20 C	
32W4 	32W4** (For MA) A32W4 (For ME) 24 #20 H.D. 4 #16, 4 coax	1500 (1-28), 1000 (29-32)V	32W4	4	coax	
				24	20 H.D.	
				4	16	
			32C4	4	S	
				24	20 H.D.	
				4	16	
			B32C4	4	H	
				24	20 H.D.	29-32
	4	16	1-7, 10-22			
C32C4	4	R	25-28			
	24	20 H.D.	8, 9, 23, 24			
	4	16				
D32C4	4	G				
	24	20 H.D.				
	4	16				
E32C4	4	AA				
	24	20 H.D.				
	4	16				
H32C4	4	AB				
	24	20 H.D.				
	4	16				
36W7 	36W7** 29 #22 7 coax (Size 5)	1000	For coax contacts see page F-34			
40 	40 40 #20	1500V	40	40	20	1-40
40W1 	40W1** (For MA) A40W1 (For ME) 39 #20, 1 coax	1500 (1-39) 1000 (A1)V	40W1	1	20 coax	
			40B1	1	20 B	1-39 A1
			40F1	1	20 P	
			F40C1	1	20 J	
45 	45 45 #20	1500V	45	45	20	1-45

**Crimp rear release coaxial contacts.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Contact Arrangement Variations, Crimp Type - DPX*MA/ME Series

NOTE: See pages 62-65 for Coaxial Contact data
See pages 57-58 for Crimp Contact data

	Contact Arr.	No. of Contacts & Wire Size	Test Voltage AC (RMS)	Contact Arr. No.	No. of Contacts	Contact Size or Code Letter	Contact Numbers
57		57 #20	1500V	57	57	20	1-57
67		64 #20 H.D. 3 #16	1500 (3-5) 1000 (1, 2, 6-67)V	67	64 3	20 H.D. 16	1-2, 6-67 3, 4, 5
A106†		106 #22	1000V	A106	106	22	1-106

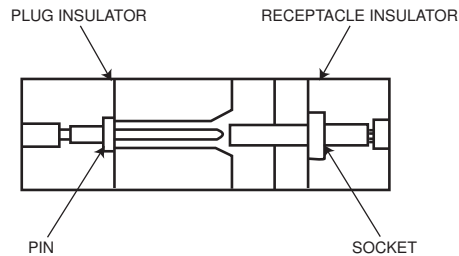
**Crimp rear release coaxial contacts.

†A106 arrangements have the POS-ALINE connector design. See below.

NOTE: Engaging force of each layout arrangement shall not exceed 45 lbs. maximum.

Positive Contact Alignment Design

For high density A106 contact arrangement



In the POS-ALIGN connector construction the entire pin contact is recessed in an individual cavity in the plug insulator while the sturdy socket members are exposed and extend from the connector receptacle face. There is a lead-in chamfer that guides the socket contact into the pin cavity assuring proper contact alignment during mating and protecting the pin contact from damage and wear.

Rear insertion, release and extraction of crimp snap-in contacts

The ITT Cannon LITTLE CAESAR contact assembly permits contacts to be inserted, released, and extracted from the rear of the connector with a simply, expendable plastic tool.

The contact is inserted from the rear of the connector thru a cylindrical clip in the insulator until indented tines of the clip snap securely behind the contact shoulder. The contact is released as the plastic tool is inserted into the rear of the connector, expanding the tines beyond the contact shoulder, permitting contact extraction. The simplified contact design has a single holding shoulder and no undercuts for improved bend resistance.

Other features of the LITTLE CAESAR contact assembly include: hard dielectric socket face with lead-in chamfers for positive mating of contacts; good contact stability with minimum clearance between the contact and the insulator cavity wall; plus a "closed-down" design of the insulator's hard dielectric around each pin contact.

This LITTLE CAESAR contact assembly was selected by the National Aerospace Standards Committee as the system to be used in a major industry connector specification, for vital programs demanding great operational reliability.

The LITTLE CAESAR contact assembly is currently available in the BKA, DPX*MA, DPK, DPDMA, and DPAMA Series.

Contact and Termination Tooling Data - Commercial

Crimp Contacts

The crimp contacts are shipped with the connector, not installed. Additional contacts may be ordered using the part numbers listed below. All tools must

be purchased separately. The insertion/extraction tools listed are plastic type. Consult factory for more durable metal tools.

Contact Size	Type	Part Number		Wire Accom.	Crimp Tool Part Number	Locator Part Number	Insertion/Extraction Tool (Part No.)	Layout Usage	
		DPX MA Commercial	DPX ME Commercial ¹					DPX ME	DPX MA
2222	Pin	030-1975-007	030-1975-005	22,24,26	M22520/2-01	M22520/2-23	CIT-DPXMA-22 M81969/1-01	A106	A106
	Socket	031-1113-007	031-1113-008						
2020	Pin	030-9081-000	030-2040-000	20,22,24	M22520/2-01 MS-3191-1 MS-3191-3	M22520/2-02 Std. Locator Std. Locator M22520/2-01	CIET-20 (274-7001-000)	10, A32W2, 40, A40W1, 45,57	10, 25W2, 32W2, 40, 40W1, 45,57
	Socket	031-9134-001	031-1046-002						
2020HD	Pin	030-9081-003	030-1892-002	20,22,24	M22520/2-01 MS-3191-1	M22520/2-08 Standard	CIET-20 M81969/1-02 (980-0004-805)	10W3 A32W4, 67	10W3 32W4, 67
	Socket	031-9134-004	031-1047-002						
1616	Pin	030-9083-001	030-1893-002	16,18,20	M22520/1-01 MS-3191-1	M22520/1-02 Std. Locator	CIET-16 (274-7002-000)	D8, A10, 26, A32W4, 67	D8, A10, B16W3, 26, 32W4, 67
	Socket	031-9206-004	031-9206-021						
1212	Pin	030-1909-001	030-2045-000	12,14	M22520/1-01	M22520/1-11	CIET-12 (274-7003-000)	D8	8, D8
	Socket	031-1059-001	031-1059-002						
0808	Pin	030-1908-001	030-1908-001	8	CBT-600* CBT600B*	CCH8-1 Head CCHP-8-6	CET-8-2 (323-7004-000)	10	10
	Socket	031-1154-000	031-1154-000						
0406	Pin	030-2049-000	030-2049-000	6	CBT-600* CBT600B*	CCH4-1 Head CCHP-4-8	CET-4-8 (323-7008-000)	A10	A10
	Socket	031-1151-000	031-1151-000						

* Requires air line pressure of 80 to 100 psi.

These DPXME contacts are being superseded in favor of military DPXNE/NA contacts, this applies to all existing DPXME connector assemblies, except for size 20 contacts.

Electrical Data

Contact Size	Wire Size	Insulation (O.D.) Limits Inch (mm) Max.	Test Current per MIL-C-39029 Table VI	Max. Current for Tests (Amps) (Mil-C-39029)	Max. Potential Drop (Millivolts) at 25°C per MIL-C-39029
4	6	.310 (7.87)	60	60	33
8	8	.250 (6.35)	46	46	39
12	12	.135 (3.43)	23	23	63
	14		17	17	60
16	16	.103 (2.62)	13	13	68
	18		-	-	-
	20		7.5	-	75
20	20	.071 (1.80)	7.5	7.5	83
	22		-	-	-
	24		3	3.0	68
22	22	.054 (1.37)	5	5.0	110
	24		-	-	-
	26		2	2.0	80

Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Description of Modification Codes for Special Connector Insert Assemblies

Class	Series	DPX Insert Type	Class	Series	DPX Insert Type	Class	Series	DPX Insert Type
None	DPXA DPXB	Two (2) pieces, solder pot.	D*	-	(MA) LITTLE CAESAR assembly, crimp pot. (Cat. A)	DPX2CA-	-	A side: (MAS) LITTLE CAESAR assembly, solder pot (32W2S)
MA	DPXAMA DPXBMA	LITTLE CAESAR rear release contact retention assembly, crimp pot.	E*	-	Metal plates.	DPX2AC- (Reverse CA)	-	B side: Standard 2 Piece, solder pot (57S). Ex: DPX2CA-32W2S57S-33-0001
MAS	-	LITTLE CAESAR assembly, solder pot,	DPX2-	-	Standard 2 pieces, solder pot, both sides, Ex: DPX2-57S57S-33-0001	DPX2AF	-	A side: Standard solder pot. B side: Rear release crimp with separator. Ex: DPX2AF-13S26S-33B-0001
MB	-	LITTLE CAESAR rear release contact retention assembly, crimp pot, with separator.	DPX2MA	-	Standard LITTLE CAESAR assembly, crimp pot both sides Ring-loc coax. EX:DPX2MA-57S57S-33-0001	DPX2BA	-	A side: Ring-Loc solder pot (40W1S). B Side: 2 Piece, Solder Pot (57S). Ex: DPX2BA-40W1S57S-33-0001
MS	-	Ring-Loc, solder pot,	DPX2MAS	-	LITTLE CAESAR assembly, solder po, both sides Ring-Loc coax. EX: DPX2MAS-57S57S-33-0001	DPX2DA	-	A side: (MA) LITTLE CAESAR assembly, Crimp (67S). B Side: 2 Piece, solder pot (57S). Ex: DPX3DA-67S57S-33-0001
ME	-	Environmental, connector.	DPX2MS-	-	Ring-Loc, solder pot. Layout 25C3 pin only and 40C1 Pin and socket. EX: DPX2MS-40W1S40W1S-33-0001	DPX2EB	-	A side: Metal plates for grounding (Coaxes). B side: Ring-Loc, solder pot. Ex: DPX2EB-C1P40W1P-34B-0001
A*	-	Two (2) pieces, solder pot (Standard 2 pieces insert).						
B*	-	Ring-Loc, solder pot. (See MS)						
C*	-	(MAS) LITTLE CAESAR assembly, Solder pot.						

*NOTE: When any two of these letters are used in combination, the inserts ("A" and "B") side have the style contacts indicated (see table opposite for examples).

Contact and Termination Tooling Data

DPXMA (LIF) Crimp Contacts

Contact Size and Part Numbers			Crimp Tooling						Insertion/Extraction Tooling			Wire Size		
Part Number			Tool P/N		Selec tor#	Locator P/N		MIL Spec	ITT Cannon			AWG	Insul Dia. Max.	Strip Length
Size	Pin	Socket	MIL Spec	ITT Cannon		MIL Spec	ITT Cannon		Insertion	Extraction	Ins./Ext.			
222	030-2259-000	031-1287-000	M22520 /2-01	995-0001 -584	3	M22520	995-0002 -015	M81969 /1-01	CIT-DPXMA-22-1 Metal (070256-0000)	CET-DPXMA-22 Metal (070317-0000)	(980-0004-804) Metal Tip	26 24 22	.054 (1.37)	.130/.110 (3.30/2.54)
2020HD	030-2273-000	031-1302-000	M22520 /2-01	995-0001 -584	6 7	M22520 /2-08	995-0001 -604	M81969 /1-02	-	-	(980-0004-805) Metal Tip	22 20	.071 (1.80)	.167/.147 (4.24/3.73)
1616	030-2280-000	031-1303-000	M22520 1-01	995-0001 -585	4 5 6	M22520 /1-02	995-0001 -736	M81969 /1-03	-	CET-16-9 Plastic (323-7001-000)	(980-0004-806) Metal Tip	20 18 16	.103 (2.62)	.270/.230 (6.86/5.84)
1212	030-2286-000	031-1308-000	M22520 1-01	995-0001 -585	7 8	M22520 /1-11	995-0002 -027	M81969 /14-04	-	CET-12-4 Plastic (323-7002-000)	CIET-12 Plastic (274-7003-000)	14 12	.135 (3.43)	.270/.230 (6.86/5.84)

N Type Thermocouple NICROSIL-NISIL

DPXMA Thermocouple Contacts

K Type Thermocouple CHROMEL / ALUMEL

J Type Thermocouple IRON-CONSTANTAN

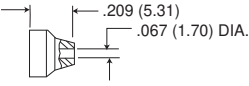
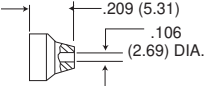
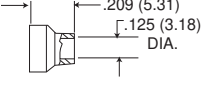
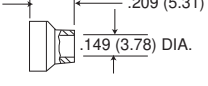
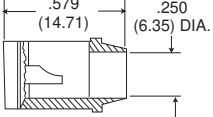
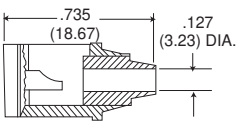
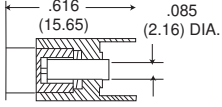
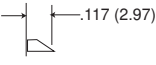
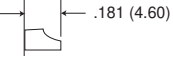
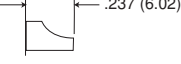
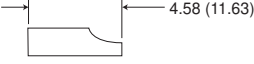
Contact Size and Part Numbers			Crimp Tooling						Insertion/Extraction Tooling			Wire Size		
Part Number			Tool P/N		Selec tor#	Locator P/N		MIL Spec	ITT Cannon			AWG	Insul Dia. Max.	Strip Length
Size	Pin	Socket	MIL Spec	ITT Cannon		MIL Spec	ITT Cannon		Insertion	Extraction	Ins./Ext.			
2222 Alumel	030-1975-009	031-1113-009	M22520 /2-01	995-0001 -584	3 3 4	M22520 /2-23	995-0002 -015	M81969 /1-01	CIT-DPXMA-22-1 Metal (070256-0000)	CET-DPXMA-22 Metal (070317-0000)	(980-0004-804) Metal Tip	26 24 22	.054 (1.37)	.130/110 (3.30/2.54)
2222 Chromel	030-1975-010	031-1113-010	M22520 /2-01	995-0001 -584	4	M22520 /2-08	995-0001 -604	M81969 /1-02	-	-	(980-0004-805) Metal Tip	22	.071 (1.80)	.167/.147 (4.24/3.73)
20HD Chromel	030-2163-000	031-1243-000	M22520 /2-01	995-0001 -584	6 7	M22520 /2-08	995-0001 -604	M81969 /1-02	-	-	(980-0004-805) Metal Tip	22 20	.071 (1.80)	.167/.147 (4.24/3.73)
20HD Alumel	030-2162-000	031-1242-000	M22520 /2-01	995-0001 -584	6 7	M22520 /2-08	995-0001 -604	M81969 /1-02	-	-	(980-0004-805) Metal Tip	22 20	.071 (1.80)	.167/.147 (4.24/3.73)
1616 Chromel	030-1898-000	031-1035-000	M22520 1-01	995-0001 -585	4 5 6	M22520 /1-02	995-0001 -736	M81969 /1-03	-	CET-16-9 Plastic (323-7001-000)	(980-0004-806) Metal Tip	20 18 16	.103 (2.62)	.270/.230 (6.86/5.84)
1616 Alumel	030-1897-000	031-1034-000	M22520 1-01	995-0001 -585	4 5 6	M22520 /1-02	995-0001 -736	M81969 /1-03	-	CET-16-9 Plastic (323-7001-000)	(980-0004-806) Metal Tip	20 18 16	.103 (2.62)	.270/.230 (6.86/5.84)
1616 Constantan	030-1905-000	031-1061-000	M22520 1-01	995-0001 -585	4 5 6	M22520 /1-02	995-0001 -736	M81969 /1-03	-	CET-16-9 Plastic (323-7001-000)	(980-0004-806) Metal Tip	20 18 16	.103 (2.62)	.270/.230 (6.86/5.84)
1616 Constantan	030-1904-000	031-1060-000	M22520 1-01	995-0001 -585	4 5 6	M22520 /1-02	995-0001 -736	M81969 /1-03	-	CET-16-9 Plastic (323-7001-000)	(980-0004-806) Metal Tip	20 18 16	.103 (2.62)	.270/.230 (6.86/5.84)

See DPXMA contact for standard size 20 thermocouple contacts



Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Coaxial/Power Contact Termination Data (Retained by Captive Insulator Assy.)

Rear Extension from insulator	Contact type code	Part Number		Cable Accommodation	Layout Accommodation
		Pin	Socket		
	A	249-0672-000	249-0671-000	RG-187/U RG-188/U	C7A, B16C3, G25C3, C30C4, A32C2, L40C1
	B	249-0702-000	249-0703-000	RG-180/U RG-195/U	C7B, J25C3, C16C3, C32C2, 40C1
	C	249-0749-000	249-0750-000	RG-55/U RG-58/U RG-223/U	C7H, G16C3, F25C3, D32C2, F40C1
	D	-	249-0518-000	RG-59/U	C7J, H16C3, H25C3, F32C2, E30C4, E40C1
	I	249-0365-000	249-0353-000	RG-7/U	10C3
	J	249-0257-000	249-0268-000	RG-55/U RG-58/U RG-223/U	A10C3
	K	249-0583-000 024-0015-000 253-0120-000	249-0591-000 024-0015-000 253-0120-000	RG-187/U RG-188/U	25C3, 32C2, J16C3, A40C1, C7, C7D
					A40C1 pin only, use C40C1 for socket
	L	330-0144-000	330-0145-000	7.5 amp #20 wire	See Note 1
	M	030-0056-010	031-0016-008	13 amp #16 wire	See Note 2
	N	030-0017-015	-	23 amp	8
	O	-	031-0059-008	#12 wire	8

* These coaxial contacts are supplied with the connector.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change

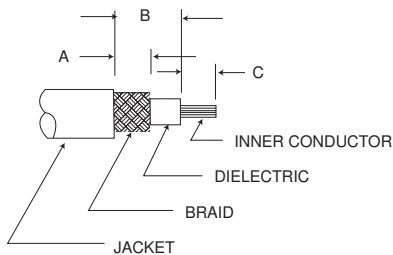
Coaxial/Power Contact Termination Data (Retained by Captive Insulator Assy.)

Rack and Panel

Rear Extension from insulator	Contact type code	Part Number		Cable Accommodation	Layout Accommodation
		Pin	Socket		
	R	249-1521-000	249-1522-000	RG-9/U, RG-214/U	C2
	Z	249-1624-000	249-1598-000	RG-58/U with Captive Contact	C7AA, ZE16C3, Q25C3, A30C4, M32C2, J40C1
	AA	249-1599-000	249-1622-000	RG-196/U with Captive Contact	C7X, ZF16C3, R25C3, B30C4, N32C2, K40C1
	AB	249-1554-000	249-1822-000	RG-58/U	C2C
	AC	Consult Factory	249-5027-001	RG-9/U, RG-214/U	C2M

NOTES: 1. Code L-10C3, A10C3, 17, 23, 25C3, E25C3, F25C3, G25C3, H25C3, J25C3, Q25C3, R125C3, 30C4, A30C4, C30C4, D30C4, E30C4, 32, 32C2, A32C2, C32C2, 032C2, F32C2, M32C2, N32C2, Q32C2, 40, 40C1, B40C1, D40C1, E40C1, F40C1, H40C1, J40C1, K40C1, L40C1, 45, 57, 67,
2. Code M-B16C3, C16C3, G16C3, H16C3, M16C3, ZE16C3, ZF16C3, 26, 30C4, 32, 67

Suggested Cable Trim Dimensions



Code Letter	Inches			Millimeters		
	A	B	C	A	B	C
A	.166/.146	.358/.318	.14	4.22/3.71	9.08/8.08	3.55
B	.166/.146	.358/.318	.14	4.22/3.71	9.08/8.08	3.55
C	.166/.146	.358/.318	.14	4.22/3.71	9.08/8.08	3.55
D	.166/.146	.358/.318	.14	4.22/3.71	9.08/8.08	3.55
E	.166/.146	.358/.318	.14	4.22/3.71	9.08/8.08	3.55
I	.166/.146	.39	.166/.146	4.22/3.71	9.91	4.21/3.71
J	.166/.146	.55	.166/.146	4.22/3.71	13.97	4.21/3.71
K	.198/.178	.488/.428	.25	5.03/4.52	11.38/10.87	6.35
Z	.08	.41	.23	2.03	10.41	5.84
AA	.11	.23	.195/.175	2.79	5.84	4.95/4.45
AB	.238/.198	.233/.193	.447/.427	6.04/5.03	5.92/4.90	11.35/10.89
AC	.345/.281	.516/.484	.359/.296	8.71/7.14	13.11/12.3	9.12/7.52
R	.238/.198	.233/.193	.582/.542	6.05/5.03	5.92/4.90	14.8/13.8

Coaxial Cable Assembly

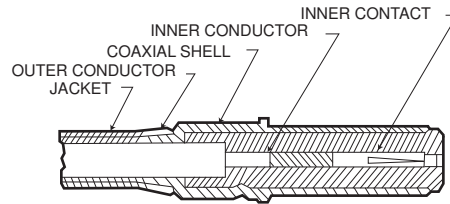
ITT Cannon recommends resistance soldering for all solder contacts, particularly for RF cable where excessive heat will damage the dielectric. Wires

should be pre-tinned. Bushing, endbells, and junction shells (where applicable) must be slipped over wire bundles before soldering is started. Consult

factory for types not shown. The mechanical steps in wiring coaxials described below.

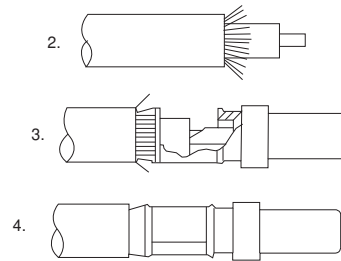
For Codes A, B, C, D, and E

1. Cut cable evenly. Trim to dimensions as shown on page 60. Care should be taken not to injure the conductor or dielectric.
2. Remove inner contact from coaxial assembly and solder it to inner conductor of cable.
3. Push inner contact back into coaxial assembly.
4. Pull outer conductor over coaxial shell, and solder.
5. Apply shrink sleeving after assembly.



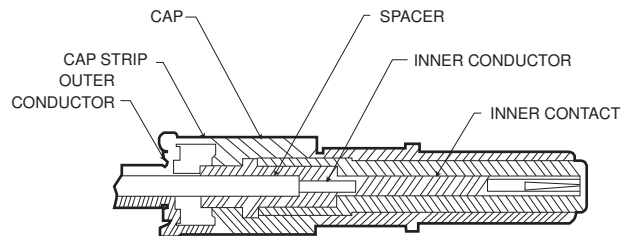
For Codes I and J

1. Cut cable evenly. Trim to dimensions as shown on page 60. Care should be taken not to injure the conductor or dielectric.
2. Comb braid, tin conductor and remove flux.
3. Remove solder pot cover. Insert cable and solder conductor to contact. The dielectric should butt against contact solder pot.
4. Replace solder pot cover and solder braid to ferrule.
5. Apply shrink sleeving after assembly.



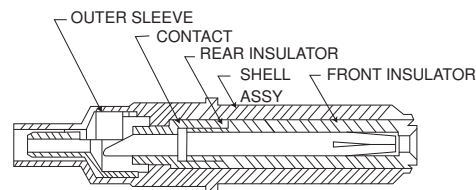
For Codes K

1. Cut cable evenly. Trim to dimensions as shown on page 60. Care should be taken not to injure the conductor or dielectric.
2. Unscrew cap and remove spacer and inner contact from coaxial assembly.
3. Push cable through center of cap and spacer.
4. Solder inner contact to inner conductor of cable.
5. Push inner contact back into coaxial shell assembly and attach cap.
6. Separate outer conductor of cables into two pigtails 180° apart.
7. Attach on pigtail to each end of cap strip and solder.
8. Apply shrink sleeving after assembly.



For Codes Z and AA

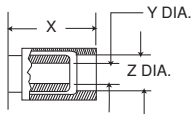
1. Cut cable evenly. Trim to dimensions as shown on page 60. Care should be taken not to injure the conductor or dielectric.
2. Solder inner conductor to coaxial contact through side slot in coaxial with outer sleeve pushed back on cable.
3. Pull sleeve forward over braid and solder through holes in sleeve.
4. Solder sleeve to coaxial body.



Coaxial Contacts

NOTES: 1. The "X" dimension is taken from the rear of the shell.
 2. Codes G and S are inactive for new design. Use codes AD and AE.
 3. Code AA is designed for installations that have limited space in the terminal area. Use code AG for standard installations.
 *P for pin; S for socket.

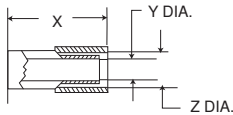
Codes A, B, C, D, E, H, P, R



Arr. Used In	Code Letter	Cable Accommodation	Part Number*	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool	
B16W3 25W3 32W2 40W1	A	*RG-59/U	P-249-1397-000	Ring Loc	.760 (19.30)	.158 (4.01)	.275 (6.53)	CA58073	CET-C4 (038869-0004)	
		RG-62/U	S-249-1398-000							
	B	*RG-58/U	P-249-1399-000	Ring Loc	.760 (19.30)	.128 (3.25)	.211 (5.36)			
			S-249-1400-000							
	C	*RG-180/U	P-249-1401-000	Ring Loc	.760 (19.30)	.128 (3.25)	.166 (4.22)			
		RG-195/U	S-249-1402-000							
	D	RG-174/U, RG-187/U	P-249-1403-000	Ring Loc	.760 (19.30)	.072 (1.83)	.121 (3.07)			CCT-HX4-524 CCT-408M
		RG-179/U, RG-188/U	S-249-1404-000							
	E	RG-178/U	P-249-1405-000	Ring Loc	.760 (19.30)	.072 (1.83)	.091 (2.31)			
		RG-196/U	S-249-1406-000							
W8 32W4	H	RG-174/U, RG-187/U	P-249-1633-000	LITTLE CAESAR	.592 (15.04)	.072 (1.83)	.121 (3.07)	CCT-HX4-524 CCT-408M	CET-C8 (323-7011-000)	
		RG-179/U, RG-188/U	S-249-1634-000							
B16W3 25W3 32W2 40W1	P	*RG-58/U with nylon braid over jacket	S-249-1608-000	Ring Loc	.760 (19.30)	.128 (3.25)	.235 (5.97)	Crimp CA58073	CET-C4 (038869-0004)	
W8 32W4	R	*RG-178/U	P-249-1670-000	LITTLE CAESAR	.592 (15.04)	.072 (1.83)	.091 (2.31)	CCT-HX4-524 CCT-408M	CET-C8 (323-7011-000)	
		RG-196/U	S-249-1671-000							

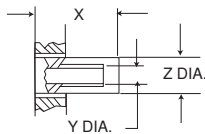
***IMPORTANT: These coaxials can only be used in the DPX*MAS or DPX*MB Connector Series.**

Codes F, S, T



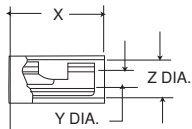
W8 32W4	F	RG-59/U	P-249-1474-000	LITTLE CAESAR	.775 (19.68)	.158 (4.01)	.238 (6.04)	CA58073 CCT-HX3-156	CET-C8 (323-7011-000)		
		RG-62/U	S-249-1471-000								
	S	RG-55/U	P-249-1958-000	LITTLE CAESAR	.592 (15.04)	.130 (3.30)	.238 (6.04)				
		RG-142/U	S-249-1959-000								
	T	RG-59/U	P-249-1960-000	LITTLE CAESAR	.592 (15.04)	.158 (4.01)	.238 (6.04)			CA58073 CCT-HX3-156	CET-C8 (323-7011-000)
		RG-62/U	S-249-1961-000								

Codes G



W8 32W4	G	RG-58/U	P-249-1631-000	LITTLE CAESAR	.500 (12.70)	.130 (3.30)	.211 (5.36)	CCT-HX4-524 CCT-408M	CET-C8 (323-7011-000)
			S-249-1632-000						

Codes J



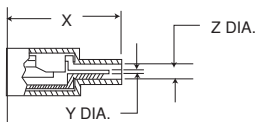
W16W3 25W3 32W2 40W1	J	RG-58/U	P-249-1388-000	Ring Loc	.798 (20.27)	.130 (3.30)	.273 (6.93)	Solder	CET-C4 (038869-0004)
			S-249-1390-000						



Dimensions shown in inches (mm)
 Specifications and dimensions subject to change

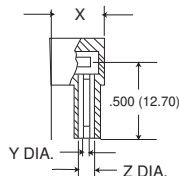
Coaxial Contacts

CODE K



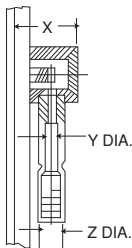
Arr. Used In	Code Letter	Cable Accommodation	Part Number*	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
B16W3 25W3 32W2 40W1	K	RG-178/U RG-196/U	P-249-1384-000 S-249-1413-000	Ring Loc	.906 (23.01)	.045 (1.14) .035 (0.89)	.098 (2.49) .088 (2.24)	Solder	CET-C4 (038869-0004)

CODE L



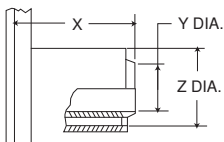
B16W3 25W3 32W2 40W1	L	RG-178/U RG-196/U	P-249-1386-000 S-249-1414-000	Ring Loc	.518 (13.16)	.045 (1.14) .035 (0.89)	.098 (2.49) .088 (2.24)	Solder	CET-C4 (038869-0004)
-------------------------------	---	----------------------	----------------------------------	----------	--------------	----------------------------	----------------------------	--------	-------------------------

CODE U



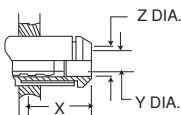
W8	U	RG-174/U, RG-187/U RG-179/U, RG-188/U	S-249-1883-000	LITTLE CAESAR	.425 (10.80)	.069 (1.75) .059 (1.50)	.117 (2.97) .107 (2.72)	CCT-C10	CET-C8 (038869-0004)
----	---	--	----------------	---------------	--------------	----------------------------	----------------------------	---------	-------------------------

CODE V, AC



10W3	V	RG-115/U	P-249-1956-000 S-249-1957-000	LITTLE CAESAR	.800 (20.32)	.260 (6.60) .254 (6.45)	.356 (9.04) .349 (8.86)	Buchanan 612991	CET 4-8 (323-7008-000)
	AC	RG-58/U	S-249-1977-000	LITTLE CAESAR	.800 (20.32)	.205 (5.21) .199 (5.05)	.356 (9.04) .349 (8.86)		

CODE AA, AB, AD, AE, AF, AG



W8 32W4	AA	RG-178/U RG-196/U	P-249-1968-000	LITTLE CAESAR	.260 (6.60)	.088 (2.24) .084 (2.13)	.126 (3.20) .122 (3.10)	T & B #WT400	CET-C8 (323-7011-000)
	AB	RG-180/U RG-195/U	P-249-1982-000 S-249-1983-000						
	AD	RG-58/U	P-249-2017-000 S-249-2018-001						
	AE	RG-142/U	P-249-2019-001 S-249-2020-001	LITTLE CAESAR	.575 (14.60)	.114 (2.90) .104 (2.64)	.168 (4.27) .158 (4.01)	Daniels HX4-210	
	AF	RG-174/U, RG-187/U RG-179/U, RG-188/U	P-249-1633-004 S-249-1634-003						
	AG	RG-178/U RG-196/U	P-249-2061-000 S-249-2062-001						

Dimensions shown in inches (mm)
Specifications and dimensions subject to change

DPX*MA/ME Coaxial Contact Data (for environmental requirements)

Components/Accessories

NOTE: The A32W2 & A40W1 (Ring Type Retention); AW8 & A32W4 (LITTLE CAESAR Renention) Coaxial Contact arrangements have been redesigned to provide ease of insertion/removal of the coaxial contacts. Sealing is accomplished with the addition of sealing sleeves provided with the coaxial contact assembly.

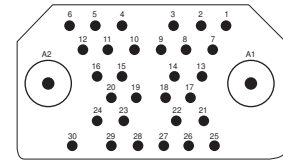
RING TYPE RETENTION (A32W2 & A40W1 CONTACT ARRANGEMENTS)

Part Number*		Cable Accommodation		Ins. Dia. Size/Max.	'A' Trim Dim.	Crimp Tool
Without Seal (MA)	Sealed (ME)	Seal 1	Seal 2			
P-249-1397-001	P-249-1397-002	X	RG59B, RG62A	.249 (6.32)	.435 (11.05)	CA58073
S-249-1398-003	S-249-1398-002				.415 (10.54)	
P-249-1399-001	P-249-1399-002	RG58B	X	.200 (5.08)	.460 (11.68)	CA58073
S-249-1400-003	S-249-1400-002				.440 (11.18)	
P-249-1401-001	P-249-1401-002	RG195	RG180B	.158 (4.01)	.460 (11.68)	CA58073
S-249-1402-003	S-249-1402-002				.440 (11.18)	
P-249-1403-001	P-249-1403-002	RG179B	RG174, RG179B,	.113 (2.87)	.460 (11.68)	CCT-406M
S-249-1404-003	S-249-1404-002		RG316		.440 (11.18)	
P-249-1405-001	P-249-1405-002	RG179B, RG196	X	.083 (2.11)	.480 (12.19)	CCT-406M
S-249-1406-003	S-249-1406-002				.460 (11.68)	

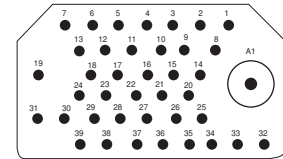
*P for pin, S for socket

†Unsealed accomodates both Seal 1 & Seal 2 Cables.

††For use with connectors supplied less grommet (Code 29**, etc.)

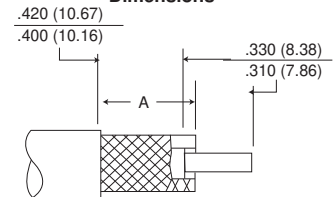


32W2 (MA Version)
A32W2 (ME Version)



40W1 (MA Version)
A40W1 (ME Version)

Cable Trim Dimensions



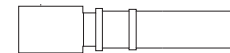
Coaxial Contact Assembly Recommendations

(For Codes A, B, C, D, E, J, K, L and P)

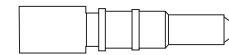
- Center contact, rear insulator, crimp ring, support bushing and seal sleeve are packaged separately and shipped with the coaxial assembly.
- Use impact extraction tool no. CET-C4 (038869-0004). An insertion tool is not required. (See Item 4).
- Cable Assembly Instructions
 - If applicable, determine which portion of seal sleeve should be used. If seal 2 is used, cut off seal 1 portion
 - In sequence, place seal sleeve, support bushing and crimp ring over cable jacket.
 - Trim cable per illustration.
 - Place rear insulator over dielectric.
 - Solder innerconductor to center contact.
 - Insert soldered cable firmly into coaxial with shielding over coaxial shell.
 - Pull crimp ring forward until stopped and crimped.
 - Insert coaxial assembly into connector until engaged. Push support bushing into grommet until shoulder rest on tubular extension. Then pull seal sleeve forward until it is snug against grommet.
- To extract coaxial, push back seal sleeve and support bushing. Then push out coaxial from engaging end with CET-C4 (038869-0004) impact tool.
- When crimping with CA58073 crimp tool, care should be taken to avoid flaring the front end of the crimp ring. Place Crimp jaw so that the second tooth of the indentors is over the end of the crimp ring.
- To facilitate extraction of contacts and avoid splaying the length of free cable adjacent to the rear surface of the connector should not be less than 2.000 (50.80).

WITHOUT SEAL

(For Codes A, B, C, D, E, J, K, L and P)

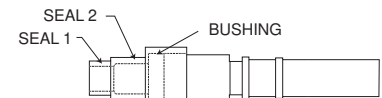


SOCKET

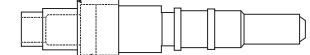


PIN

SEALED



SEAL
SOCKET



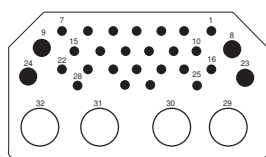
BUSHING
PIN

DPX*MA/ME Coaxial Contact Data (for environmental requirements)

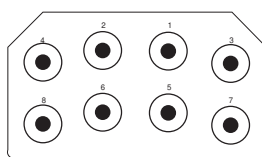
Components/Accessories

With Seal
CU 249-0000-047 & -045

Without Seal
CU 249-0000-044 & -046

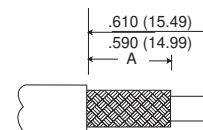


32W4** (MA Version)
A32W4 (ME Version)



W8** (MA Version)
AW8 (ME Version)

Cable Trim Dimensions



LITTLE CAESAR® CONTACT RETENTION (A32W4 & AW8 CONTACT ARRANGEMENTS)

Part Number*		Cable Accommodation†		Ins. Dia. Size/Max.	'A' Trim Dim.
Without Seal‡ (MA)	Sealed (ME)	Seal 1	Seal 2		
P-249-1633-004	P-249-1633-003	RG179	RG174, RG316,	.111 (2.82)	.350 (8.89)
S-249-1634-003	S-249-1634-002		RG179B		.330 (8.38)
P-249-1982-000	P-249-1982-001	RG180B	RG195	.158 (8.89)	.260 (6.60)
S-249-1983-000	S-249-1983-001				.250 (6.35)
P-249-2017-001	P-249-2017-000	RG58C	X	.196 (4.98)	.260 (6.60)
S-249-2018-001	S-249-2018-000				.250 (6.35)
P-249-2019-001	P-249-2019-000	RG142B	X	.196 (4.98)	.260 (6.60)
S-249-2020-001	S-249-2020-000				.250 (6.35)
P-249-2061-001	P-249-2061-000	RG178B	X	.075 (1.90)	.260 (6.60)
S-249-2062-001	S-249-2062-000				.250 (6.35)

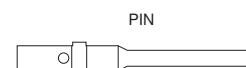
*P for Pin, S for Socket

Unsealed accommodates both Seal 1 & Seal 2 cables. CU DWGS with seal 249-0000-044 and 249-0000-045

For use with connector supplied less grommet (Code-29**, etc.). CU DWGS without seal 249-0000-047 and 249-0000-046



SOCKET

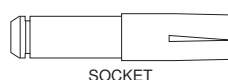


PIN

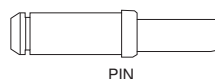
Coaxial Contact Assembly and Extraction Recommendations

- Use Crimp Tool No. DIE Y211 (995-0002-249), Tool M22520 / 5-01 (995-0001-761).
- Use extraction tool No. CET-C8. An insertion tool is not required. (See Note 5).
- Center contact, rear insulator, crimp ring, support bushing (not applicable to RG58/RG142 coaxials), seal sleeve, front insulator, shell and ferrule are shipped unassembled in a common container.
- Cable Assembly Instructions:
 - Step 1 - If applicable, determine which portion of seal sleeve should be used. If seal 2 is used, cut off seal 1 portion.
 - Step 2 - In sequence, place seal sleeve, support bushing and crimp ring over cable jacket.
 - Step 3 - Trim cable per illustration.
 - Step 4 - Comb out braid and flare out ends to permit entry of ferrule.
 - Step 5 - Complete termination per illustration. (See below)
- To extract: coaxial, push back seal sleeve and support bushing. Slip cable into extraction tool. Push tool into insert until it contacts coaxial retaining shoulder. Grip both cable and tool with one hand and pull coaxial rearward out of insert cavity.

WITHOUT SEAL

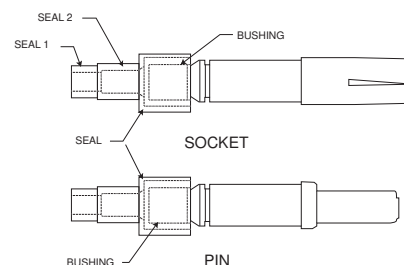


SOCKET

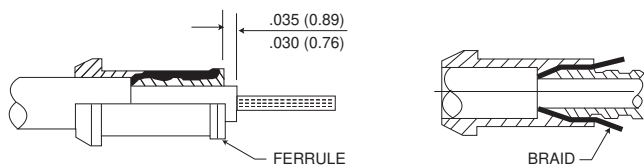


PIN

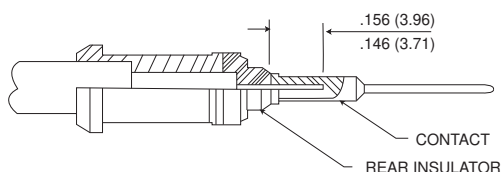
SEALED



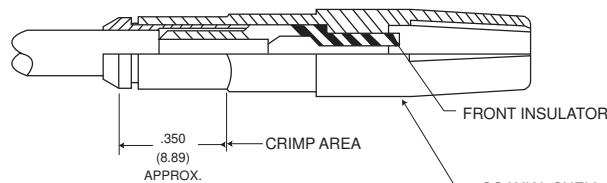
- To facilitate extraction of contacts and avoid splaying, the length of free cable adjacent to the rear surface of the connector should not be less than 2.000 (50.80).



- Carefully push inner conductor through rear insulator.
- While holding rear insulator firmly against ferrule, trim conductor to .156 (3.96)/.146 (3.71) dimension.
- Place contact over conductor and solder.



- Push ferrule under braid as far as it will go. Trim off braid extending beyond shoulder of ferrule, if necessary.
- While holding ferrule in place pull crimp sleeve forward over braid until it is tight against shoulder of ferrule. Pull firmly against face of ferrule to make sure it is up tight.
- Trim dielectric to the .035 (0.89)/.030 (0.76) dimension.



- Place front insulator over contact and then push assembly into coaxial shell.
- Place parts in jaw of crimp tool. Locate jaws at start of chamfer on crimp sleeve. Press sleeve firmly into coaxial shell and crimp.
- After assembled coaxial is inserted into connector, push support bushing into grommet until shoulder rests on tubular extension. Then pull sealing sleeve forward until it is snug on grommet.

Dimensions shown in inches (mm)

Specifications and dimensions subject to change

Coaxial Cable Assembly Recommendations

LITTLE CAESAR Contact Assembly Data

For Codes F, S and T

1. Strip and trim cable as shown on page 60.
2. Solder inner conductor to coaxial contact with crimp ring over braid and rear insulator over inner conductor.
3. Insert cable into coaxial with shell under braid. Crimp ring with Cannon crimp tool CA58073.

For Codes G, H and R

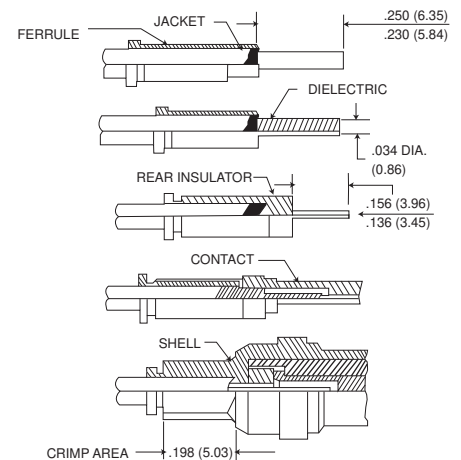
1. Strip and trim cable as shown on page 60.
2. Solder inner connector to coaxial contact with crimp ring pushed back on cable.
3. Insert cable into coaxial and pull ring forward over braid. Crimp ring with Cannon crimp tool CA58073-0001 or CCT-408M. After crimping, crimp ring must not exceed .252 (6.40) diameter.

For Codes U

1. Strip and trim cable as shown on page 60.
2. Slide crimp ring over braid and jacket of cable.
3. Unbraid exposed portion of braid and fold braid wires backward over outside of crimp ring.
4. Insert prepared wire into right angle fitting of shell assembly. Conductor should be aligned in slot of the center contact. Crimp with Cannon tool CCT/C10.
5. Solder center conductor of cable to contact. Insert cap and solder in place.

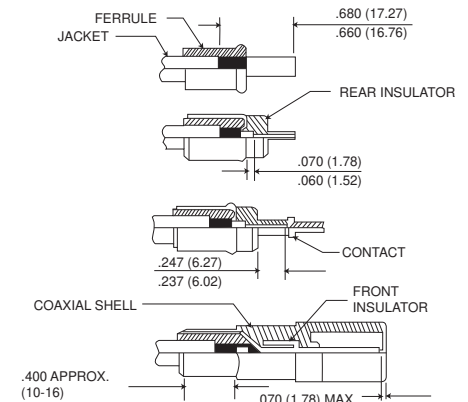
For Codes AA

1. Slip ferrule over cable jacket. Trim outer jacket. Comb out braid as shown. Retrim braid.
2. Bend up combed out braid at right angles to cable. Slide ferrule up to bend and fold braid back against ferrule.
3. Slide rear insulator over dielectric as shown. Press insulator firmly against folded back braid and trim dielectric flush with insulator. Then cut inner conductor to length shown.
4. Place contact over conductor. Press contact and insulator firmly against braid and solder contact to conductor.
5. Push cable assembly into shell, pressing against rear of ferrule and crimp area shown with T. & B. #WT-400 Crimp Tool while making sure parts do not move out of place.



For Codes AC

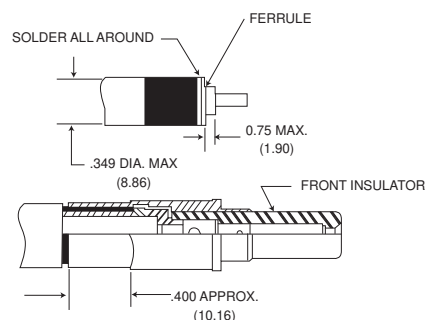
1. Trim jacket to .680 (17.27)/.660 (16.76) dimension. Then slide ferrule over braid until it stops against jacket, and comb out exposed portion of braid.
2. Fold combed braid over ferrule as shown. Then trim dielectric to .070 (1.78)/.060 (1.52) dimension and slide rear insulator over dielectric until it presses against braid.
3. Press insulator against braid and trim inner conductor to .247 (6.27)/.237 (6.02) dimension. Then place contact over conductor and crimp with MS3191-3 (do not use MS3191-1). Press parts firmly against locator during crimping operation.
4. Place front insulator over contact. Push parts into coaxial shell. While holding parts firmly against stop shoulder in coaxial shell, place jaw of crimp tool at back end of shell and crimp. Use Buchanan crimp tool #612991 (.343 [8.71] across hex).



Coaxial Cable Assembly Recommendations (Continued)

For Code V

1. Trim cable to dimensions shown below.
 - A. Push ferrule under braid as far as it will go and press braid down tightly around ferrule.
 - B. Solder ends of braid to ferrule by applying a small amount of solder. Avoid excess solder as it would cause braid to swell up.
 - C. Remove any solder exceeding the .349 (8.86) max. diameter.
 - D. Check the .075 (1.90) max. dielectric extension, retrim if necessary.
3. A. Place rear insulator over dielectric and conductor into contact.
 - B. Solder contact to conductor through access hole.
 - C. Remove excess solder from outside of contact.
4. A. Place front insulator over contact.
 - B. Push parts into coaxial shell.
 - C. While holding parts firmly against stop shoulder in coaxial shell, place jaw of crimp tool at back end of shell and crimp, use Buchanan crimp tool #612991 [.343 (8.71) across hex].



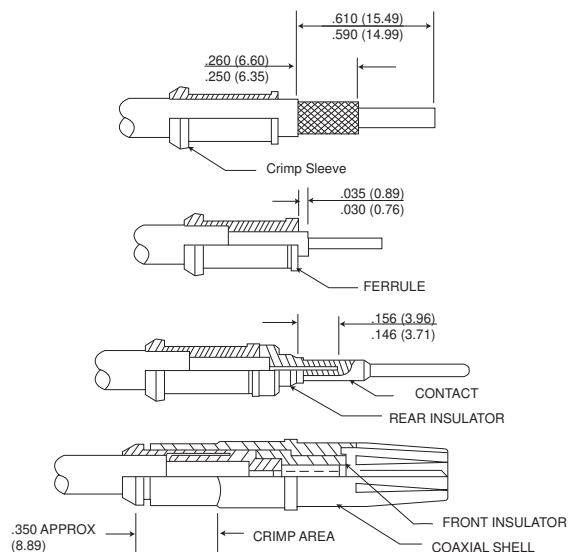
For Codes AB, AD, AE, AF and AG

Setp 1 - Trim cable as shown.

Step 2 - Flare out ends of braid to permit entry of ferrule.

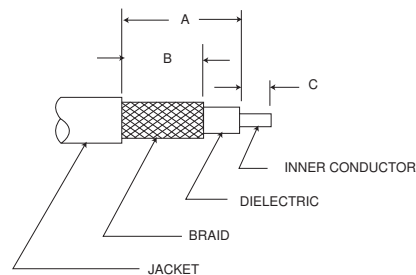
Step 3 - Complete termination per instructions as shown below.

- a. Push ferrule under braid as far as it will go. Trim off braid extending beyond shoulder of ferrul, if necessary.
- b. While holding ferrule in place pull crimp sleeve forward over braid until it is tight against shoulder on ferrule. Push firmly against face of ferrule to make sure it is up tight.
- c. Trim dielectric to the .035 (0.89)/.030 (0.76) dimension.
- d. Carefully push inner conductor through rear insulator.
- e. While holding rear insulator firmly against ferrule, trim conductor to .156 (3.96)/.146 (3.71) dimension.
- f. Place contact over conductor and solder.
- g. Place front insulator over contact and then push assembly into coaxial shell.
- h. Place parts in jaw of crimp tool. Locate jaws at start of chamfer on crimp sleeve. Press Sleeve firmly into coaxial shell and crimp. Use Daniels crimp tool HX4-210.



Cable Trim Dimensions

Code Letter	Inches			Millimeters		
	A	B	C	A	B	C
A	.420/.400	.432/.415	.330/.310	10.67/10.16	11.05/10.54	8.38/7.87
B, C, D & P	.420/.400	.460/.440	.330/.310	10.67/10.16	11.68/11.18	8.38/7.87
E	.420/.400	.480/.460	.330/.310	10.67/10.16	12.19/11.68	8.38/7.87
F	.785/.745	.275/.255	.228/.208	19.94/18.92	6.98/6.48	5.79/5.28
G	.490/.470	.275/.255	.156/.136	12.45/11.94	6.98/6.48	3.96/3.45
H & R	.581/.561	.345/.325	.156/.136	14.76/14.25	8.76/8.26	3.96/3.45
J	.326/.306	.250/.230	.088/.068	8.28/7.77	6.35/5.84	2.24/1.73
K	.410/.390	.290/.270	.088/.068	10.41/9.91	7.37/6.86	2.24/1.73
L	.385/.365	.244/.224	.074/.064	9.78/9.27	6.20/5.69	1.88/1.63
S	.678/.658	.275/.255	.156/.136	17.22/16.71	6.98/6.48	3.96/3.45
U	.940/.920	.760/.740	.080/.060	23.88/23.37	19.30/18.80	2.03/1.52
V	.550/.540	.415/.405	.250/.240	13.97/13.72	10.54/10.29	6.35/6.10
T	.598/.578	.300/.280	.228/.208	15.19/14.68	7.62/7.11	5.79/5.28
AA, AC	See page 60 for dimensions					
AB, AD, AE, AF, AG	See page 60 for dimensions					



Dimensions shown in inches (mm)
Specifications and dimensions subject to change



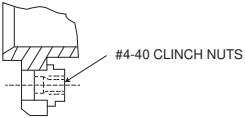


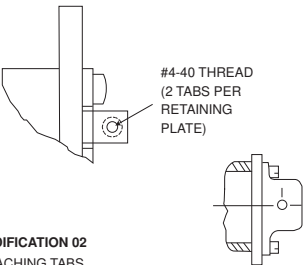



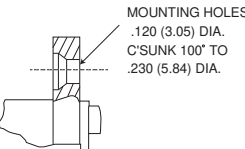
Modifications Codes



DPXA Modifications Codes

- 4. Mounting holes .120 (3.05) dia. c'sink 100° to .225 (5.72) dia.
- 5. 4-40 clinch nuts.
- 6. Removable insert retainer plate.
- 7. Mounting holes .120 (3.05) dia. c'sink 82° to .230 (5.84) dia.
- 12. Mounting holes .132 (3.35)/.125 (3.18).
- 16. A106 insert with separator.
- 17. With grommet and mounting holes .120 (3.05) dia. countersunk 100° to .225 (5.72) dia.
- 70. Standard mounting with (LIF) contacts.
- 77. Same as -7 except with low insertion force (LIF) contacts (for LIF contact data).

DPXB and DPX2/3/4 Modification Codes

Some of the modification numbers used in the DPX lines apply to all types and some are applicable for only certain types. The following chart gives the modification number, the description, and the shell type in which they may be used (-33 is for plug shells, -34 is for receptacle shells).

	Modification	Applicable Series	Definition
	- 00**	DPX2-33 and 34 DPX2-33A DPX2-33F and 34F DPX2-33M and 34M	Standard construction, mounting holes .120 (3.05) dia. and with tabs for junction shells.
	- 00	DPX2-34A	Standard construction - six floating eyelets and tabs for junction shells,
DESCRIBES STANDARD CONNECTOR HOUSING	- 00	DPX2-33B DPXB-33 DPX3-33 DPX4-33	Standard construction, mounting holes .120 (3.05) dia. countersunk 82° to .230 (5.84) dia. - no tabs. 
MODIFICATION 00	- 00	DPX2-34B DPXB-34 DPX3-34 DPX4-34	Standard construction, mounting holes 120 (3.05) dia. - no tabs. 
	- 01	DPX2-33 and 34 DPX2-33A DPX2-34A DPX2-33F and 34F DPX2-33M-34M	Standard construction and with standard junction shells.
	- 01	DPX2-34B/33B DPXB-34	With four #4-40 clinch nuts in mounting holes.
	- 01	DPX3-34	With six #4-40 clinch nuts in mounting holes. 
MODIFICATION 01	- 01	DPX4-34	With ten #440 clinch nuts in mounting holes. 
	- 02	DPX2-33 and 34 DPX2-33A DPX2-34A DPX2-33F and 34F DPX2-33M and 34M	Standard construction and with 90° junction shells.
	- 02	DPX2-33B and 34B DPXB-33 and 34 DPX3-33 and 34 DPX4-33 and 34	Standard construction and with tabs for attaching junction shells. 
MODIFICATION 02 ATTACHING TABS	- 02	DPXBME-33 and 34 DPX2ME-33 and 34 DPX3ME-33 and 34 DPX4ME-33 and 34	Standard construction and with tabs for attaching junction shells. 
ALTERNATE STYLE	- 03	DPX2-33 and 34 DPX2-33A DPX2-33F and 34F DPX2-33M and 34M DPXB-33 and 34 DPX3-33 and 34 DPX4-33 and 34	Mounting holes .120 (3.05) dia. countersunk 100° to .230(5.84) dia. 
			

 Applicable for all MA, ME, NA & NE Series Connectors.
 Applicable to NE Series also.