BKA and DPX Contacts

Termination Tooling Data

BKA & DPX (LIF) Crimp Contacts

Size	Pin	Socket	Tool Part Number		Selector	Locator Part Number		MIL Spec	Insertion/Extraction Tooling			AWG	Wire Size	
			MIL Spec	ITT Cannon		MIL Spec	ITT Cannon		Insertion	Extraction	Ins./Ext		Insul Dia. Max.	Strip Length
2222*	030-2259-000	031-1287-000	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)
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 (1.8)	.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 /1-04	-	CET-12-4 Plastic (323-7002-000)	CET-12 Plastic (274-7003-000)	14 12	.135 (3.43)	.270/.230 (6.86/5.84)

*Contacts used in BKA connectors are as follows, Size 22 Pin contacts are used in the Plug, Socket in the receptacle. All other sizes the Pin is used in the receptacle and socket is used in the Plug.

DPX Crimp Contacts

Contact Size	Type	Part Number		Wire Accom.	Crimp Tool Part Number	Locator Part Number	Insertion/ Extraction Tool
		DPXMA/ME	DPXNE/NA*				
2222	Pin	030-1975-007	030-1975-008	22, 24, 26	M22520/2-01	M22520/2-23	CIT-DPXMA-22 M81969/1-01
	Socket	031-1113-008	031-1113-008				
2020	Pin	030-9081-000		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)
	Socket	031-9134-001					
2020HD	Pin	030-9081-003	030-1892-004	20, 22, 24	M22520/2-08	Standard	CIET-20 M81969/1-02 (980-0004-805)
	Socket	031-9134-004	031-1047-003				
1616	Pin	030-9083-001	030-9083-012	16, 18, 20	M22520/1-01 MS-3191-1	M22520/1-02 Std. Locator	CIET-16 (274-7002-000)
	Socket	031-9206-004	031-1271-000				
1212	Pin	030-1909-001	030-1909-002	12, 14	M22520/1-01	M22520/1-11	CIET-12 (274-7003-000)
	Socket	031-1059-001	031-1059-003				
0808	Pin	030-1908-001		8	CBT-600* CBT600B*	CCH8-1 Head CCHP-8-6	CET-8-2 (323-7004-000)
	Socket	031-1154-000					
0406	Pin	030-2049-000		6	CBT-600* CBT600B*	CCH4-1 Head CCHP-4-8	CET-4-8 (323-7008-000)
	Socket	031-1151-000					

*Contacts used in DPXNE/NA connectors are tested to and meet AS39029 requirements.
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 your account representative for more durable metal tools.

BKA & DPX Thermocouple Contacts

Size	Alloy	Type	Part Number	Crimp Tooling		Selector	Locator Part Number		MIL Spec	Insertion/Extraction Tooling			AWG	Wire Size	
				MIL Spec	ITT Cannon		MIL Spec	ITT Cannon		Insertion	Extraction	Ins./Ext		Insul Dia. Max.	Strip Length
2222	Alumel	Pin	030-1975-009	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)
		Socket	031-1113-009												
	Chromel	Pin	030-1975-010												
		Socket	031-1113-010												
1616	Alumel	Pin	030-1897-000	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)
		Socket	031-1034-000												
	Chromel	Pin	030-1898-000												
		Socket	031-1035-000												

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Termination Tooling Data (continued)

Printed Circuit Contacts

BKAF and DPX Printed Circuit Solder Post Socket Contacts Size 22 with .025(6.35) Dia. Printed Circuit Tails-Receptacle Only

The new low insertion force, front-insertable, front-removable #22 socket contacts with .025(6.35) dia., PC tails are now available for use in the BKAF non-environmental receptacle version only. These contacts can be sold separately or they can be supplied with a connector (see How to Order). Use part numbers shown in the table on the right when ordering separately. Also Applies to DPX F106 layout

Contact Supplied Installed Mod.	Part Number	Min. Post Extension	Extraction Tool
SE	031-1352-000	.150 (3.81)	CET-BKAF 22S 070343-0000
SF	031-1352-001	.250 (6.35)	
SG	031-1352-002	.375 (9.52)	
SH	031-1352-003	.500 (12.70)	

BKAD/F Solder Post, Power Pin Contacts (Captive)-Receptacle Only.

Contacts are captivated between two unbonded insulator halves.

Contact Supplied Installed Mod.	Contact Size	Part Number	Post Dia.	Min. Post Extension*
SE	20HD	030-2358-000	.032 (0.81)	.150 (3.81)
	16	030-2357-000	.050 (1.27)	
	12	030-2356-000	.081 (2.06)	

*Consult your account representative for other available lengths.

BKAF Solder Post and BKAX PCB Pin Contact Front Release Installed

Applies for BKAX 13W2 and 5W2 insert only.

Contact Supplied Installed Mod.	Contact Size	Part Number	Post Dia.	Min. Post Extension	Extraction Tool
SF	20HD	030-3287-000	.030 (0.76)	.300 (7.62)	317-1798-000
	16HD	030-3287-001	.050 (1.27)		317-1798-002
	12HD	030-3287-002	.081 (2.06)		
	5 Coax	349-1052-002	.020 (0.51)	.250 (6.35)	

Front Release Pin Contacts Size 20 and 16

BKAX PCB pin contacts front release applies for all inserts except 13W2 and 5W2.

Contact Supplied Installed Mod.	Contact Size	Part Number	PC Tail Dia.	Min. Post Extension	Extraction Tool
SF	20HD	030-3296-001	034 (0.86)/ .030 (0.76)	.260 (6.60)	317-1788-000
SG		030-3296-002		.385 (9.78)	
SF	16	030-3297-001	.052 (1.32)/ .048 (1.22)	.260 (6.60)	317-1798-002
SG		030-3297-002		.385 (9.78)	

BKAF-ARINC 600 Size 22 Wrap Post Socket Contacts With .025(6.35) Square Wire-Wrappable Tails-Receptacle Only.

The new low insertion force, front-insertable, front-removable #22 socket contacts with .025(6.35) square wire wrappable tails are now available for use in the BKAF non-environmental receptacle version only.

These contacts can be sold separately or they can be supplied with a connector (see How to Order). Use part numbers shown in the table on the right when ordering separately.

Contact Supplied Mod.	Contact Supplied Installed Mod.	Part Number	Number of Wraps	Min. Post Extension	Extraction Tool
WB	20HD	031-1351-001	2	.375 (9.52)	CET-22F 070343-0000
WC		031-1351-002	3	.500 (12.70)	

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data

High Speed Coax Contacts

Contact Size	Receptacle Part Number	Plug Part Number	RF Cable P/N	Rated Performance (GHz)
8	980-9501-015	980-9501-021	RG-405	32
8	980-9501-016	980-9501-022	RG-402	32
8	980-9501-017	980-9501-023	RG-142	12.4
8	349-1149-000	349-1087-007	RG-316	3
12	980-9501-018	980-9501-024	RG-405	40
16	980-9501-019	980-9501-025	LMR-100	6
16	980-9501-020	980-9501-026	RG-405	40

BKA Size 8 Coaxial Contacts

Rear Release/ Rear Removable Crimp Contact Type Socket Part Number		RF Cable Number
Plug Connector	Receptacle Connector	
349-1087-002	349-1086-002	RG142, RG400 RG58, RG141 RG223, RG55U ASNE0293XF
349-1087-007	349-1149-000	RD316, RG316 RG179, RG187 RG188, KX22 S280W503-1 ASNE0639XY
349-1087-011	349-1086-007	RG180, RG195 S280W503-2
349-1087-012	349-1086-008	RG178, KX21 RG196 ASNE0633WG
349-1087-013	349-1084-011	RG405 Semi Rigid

Receptacle Connector - PCB				
Contact Type Pin/Plug Part Number	Engagement*		Termination**	
	Short	Long	Solder .250 (6.35)	FR-FR .375 (9.52)
349-1084-000	-	X	X	
349-1084-001	X	-	X	
349-1084-002	-	X		X
349-1084-003	X	-		X

BKA Size 8 Twinax Contacts

Plug Connector							
Contact Type Socket Part Number	Engagement*		Termination**				RF Cable Number
	Short	Long	Crimp RR-RR	Crimp FR-RR	Solder .250 (6.35)	FR-FR .375 (9.52)	
349-1006-000	-	-	X				M17/17600002
349-1081-001	-	-	X				Tensolite Co. 24463/9 B017X-2 (LD)

Receptacle Connector							
Contact Type Pin/Plug Part Number	Engagement*		Termination**				RF Cable Number
	Short	Long	Crimp RR-RR	Crimp FR-RR	Solder .250 (6.35)	FR-FR .375 (9.52)	
349-1007-000	-	-	X				M17/17600002
349-1080-000	X	-			X		
349-1080-001	-	X			X		
349-1080-002	X	-				X	
349-1080-003	-	X				X	
349-1082-000	X	-		X			Tensolite Co. 24463/9 B017X-2 (LD)
349-1082-001	-	X		X			
349-1088-001	-	X	X				

BKA Size 8 Ground Contacts

Plug Connector							
Contact Type Socket Part Number	Engagement*		Termination**				Wire Size
	Short	Long	Crimp RR-RR	Crimp FR-RR	Solder .250 (6.35)	FR-FR .375 (9.52)	
031-3300-000	-	-	X				8, 10 AWG

Receptacle Connector							
Contact Type Pin/Plug Part Number	Engagement*		Termination**				Wire Size
	Short	Long	Crimp RR-RR	Crimp FR-RR	Solder .250 (6.35)	FR-FR .375 (9.52)	
030-3306-000	-	X			X		8, 10 AWG
030-3306-001	-	X				X	
030-3676-000	-	-		X			

*The electrical engagement of "Long" contacts is .150 (3.81) greater than the electrical engagement of "Short" contact.
** RR-RR indicates rear release, rear removal.
FR-RR indicates front release, rear removal.
FR-FR indicates front release, front removal.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

BKA Size 5 Coax Contact (Rear insertable/removable)

Cable Accommodation	Part Number		Crimp Tooling							Extraction Tool
			Center Contact				Outer Shell Tool			
			Tool		Locator		MIL STD		ITT Cannon	
	Pin (Receptacle Connector)	Socket (Plug Connector)	MIL Spec	ITT Cannon	Daniels	ITT Cannon	Frame	Jaw	Complete Tool	
RG-58C/U BA-5903 (BG)	349-0014-000	349-0013-000	M22520/2-01	995-0001-584	K-345	995-0002-049	M22520/5-01	M22520/5-45B	CCT-HX3-156	CET-C8 323-7011-000
5021K1011 (Raychem)	349-0016-000	349-0015-000								
RG-223	349-1060-000	349-1059-000								
RG-400	349-1060-000	349-1003-000					M22520/10-01	M22520/10-23		
RD-316	349-1004-002	349-1004-000								
RD-316 DS	349-1004-002	349-1004-000 with BOOT								

Crimp Center Contact-Conforming to ARINC 600

BKA Size 12 Shielded Contact (Rear insertable/removable)

Cable Accommodation	Part Number		Crimp Tooling							Extraction Tool	
			Center Contact				Outer Shell Tool				
			Tool		Locator		MIL STD		ITT Cannon		
	Pin (Receptacle Connector)	Socket (Plug Connector)	MIL Spec	ITT Cannon	Daniels	ITT Cannon	Frame	Jaw	Complete Tool	MIL Spec	ITT Cannon
RG-196A/U	249-1767-000	249-2203-001	M22520/2-01	995-0001-584	K-182	995-0002-051	M22520/1-01	M22520/10-05A	995-0001-071	M81969/28-02	CET-12-4 Plastic 323-7002-000
5071 (HW)	249-1767-001	249-1768-001									
RG-174/U	249-1767-005	249-1768-000									
BMS-1348 (BG)	249-1767-008	249-2203-000			K-644	995-0002-050					

BKA Size 1 Modified Coaxial Contacts (4W4 Layout Only) Captive No Tool Required

Plug Connector				
Cable Accommodation	Coax		Replacement Termination Kits	
	Part Number	Style	Solder Type	Crimp Type
RG214	349-1043-001	Straight	320-1066-000	320-1066-016
AA-5886	349-1048-000		320-1066-002	320-1066-018
RG393	349-1051-001		320-1066-003	320-1066-019
ECS 311201	349-1046-000		320-1066-001	320-1066-017
AA-5887	349-1049-000		320-1066-004	320-1066-013
AA-5888	349-1050-000		320-1066-005	320-1066-014
RG142	349-1047-000		320-1066-006	320-1066-015
Various	349-1047-001	TNC Adapter	-	-

Customer Use Drawings:
All Coax contacts (except 349-1047-001) customer use drawing #349-0000-305 Crimp termination kits: Customer use drawing #320-0000-305 Solder termination kits: Customer use drawing #320-0000-304

Receptacle Connector				
Cable Accommodation	Coax		Replacement Termination Kits	
	Part Number	Style	Solder Type	Crimp Type
RG316 DS	349-1051-002	Straight	320-1066-008	N/A
RG142	349-1044-000		320-1066-007	
Various	349-1042-000	SMA Adapter	-	-

Customer Use Drawings:
Coax contacts 349-1051-002 and 349-1044-000 are located on customer use drawing #349-0000-304
Coax contacts 349-1042-000 is located on customer use drawing #320-1042-000

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

BKA Size 1 Coax Contacts (71W1 Layout Only) Captive No Tool Required

Plug Connector				
Cable Accommodation	Coax		Replacement Coax Termination Kit	Replacement Coax Body Assembly
	Part Number	Style		
RG-9/U	249-1522-000	Straight	249-1522-010	021-0144-004
NSA 935354 NSA 935355	-		249-2202-000	
RG-58/U RG-142/U	249-1882-000		249-1882-001	
RG-402/U	249-1885-002		320-0051-000	021-0144-011
RG-214/U	249-5123-000		249-5027-013	021-0144-008
RG-115/U	249-5123-001		249-5027-015	

Same standard coax contacts as used in DPX (ARINC 404) connector series.

Receptacle Connector				
Cable Accommodation	Coax		Replacement Coax Termination Kit	Replacement Coax Body Assembly
	Part Number	Style		
RG-9/U RG-214/U	249-1521-000	Straight	249-1521-002	021-0144-000
NSA 935354 NSA 935355	-		249-2201-000	
RG-55/U RG-58/U RG-142/U RG-400/U	249-1554-000		249-1554-002	021-0144-003
RG-58/U RG-142/U RG-225/U	249-1604-001	90°	249-1604-003	021-0144-006
RG-402/U UT-141	249-1604-002			
RG-402/U UT-141	249-5027-008	Straight	249-5027-016	021-0144-001
SMA Jack Termination	249-5027-017		-	-

BKA Size 1 Coax Contacts (71W1A/B and 2W2 insert modifier - "M") Captive No Tool Required

Plug Connector				
Cable Accommodation	Standard Size 1 Part Number	Modular Size 1 Part Number	Termination Kit for Modular Size 1 Coax	Style
RG-214/U	349-0017-000	349-1053-003	320-1066-000	Straight
RG-393/U		-	-	
BA-6903		349-1053-007	320-1066-003	
5012H3012 (Raychem)	349-0018-000	-	-	
RG-142B/U	349-0005-000	349-1053-006	320-1066-006	
RG-402/U UT-141	349-0007-000	-	-	
AA-5888	-	349-1053-008	320-1066-005	
ECS-310801		349-1053-005	-	
AA-5886		349-1053-004	320-1066-002	
BSX-7004-502		349-1053-003	-	
ECS-311201		349-1053-002	320-1066-001	
AA-5887		349-1053-001	320-1066-004	
Adam Russell PC-38		349-1053-000	-	
TNC	349-1052-003			

Designed to be interchangeable with contacts made by other manufacturers.

Receptacle Connector		
Cable Accommodation	Part Number	Style
RG-142B/U	349-0021-000	Right Angle
RG-402/U UT-141	349-0022-000	
SMA Jack Termination	349-0023-000	Straight
RG-214/U RG-393/U BA-6903 (BG)	349-0002-000	
5012H3012 (Raychem)	349-0004-000	
RG-142B/U	349-0006-000	
RG-402/U UT-141	349-0008-000	

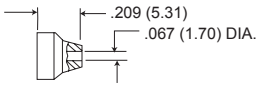
Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPX Solder Coaxial/Power Contact Data (Retained by Captive Insulator Assembly)
Coaxial contacts are supplied with the connector

Contact Type Code/Rear Extension from Insulator



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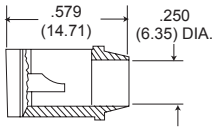

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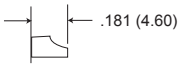

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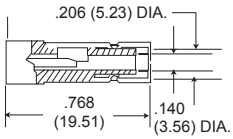

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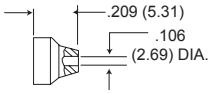

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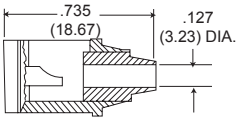

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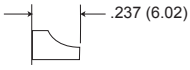

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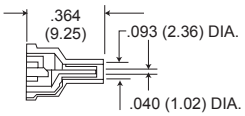

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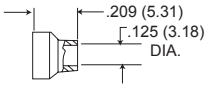

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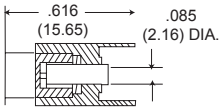

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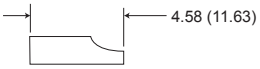

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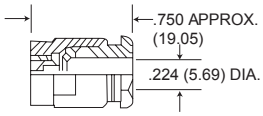

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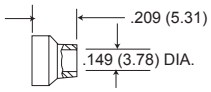
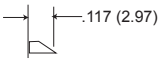
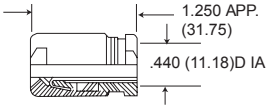


D



L



R

Contact Type Code	Part Number		Cable Accommodation	Layout Accommodation
	Pin	Socket		
A	249-1522-000	249-0671-000	RG-187/U, RG-188/U	C7A, B16C3, G25C3, C30C4, A32C2, L40C1
B	-	249-0703-000	RG-180/U, RG-195/U	C7B, J25C3, C16C3, C32C2, 40C1
C	249-1882-000	249-0750-000	RG-55/U, RG-58/U, RG-223/U	C7H, G16C3, F25C3, D32C2, F40C1
D	249-1885-002	249-0518-000	RG-59/U	C7J, H16C3, H25C3, F32C2, E30C4, E40C1
I	249-5123-000	249-0353-000	RG-7/U	10C3
J	249-5123-001	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 #12 wire	8
O	-	031-0059-008	23 amp #12 wire	8
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

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, D32C2, 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

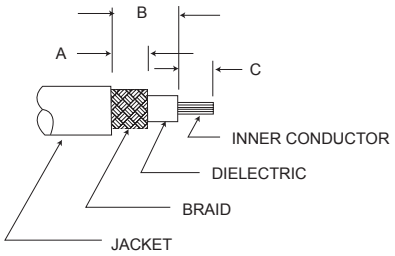
Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPX Solder 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
R	.238/.198	.233/.193	.582/.542	6.05/5.03	5.92/4.90	14.8/13.8

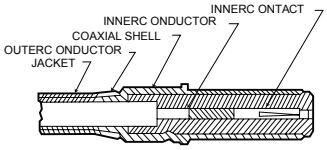


DPX 404 Coaxial Cable Assembly

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.

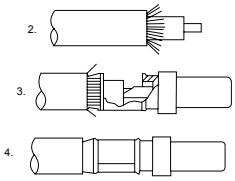
For Codes A, B, C, D, and E

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



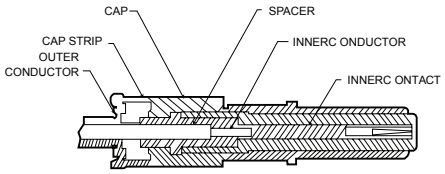
For Codes I and J

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



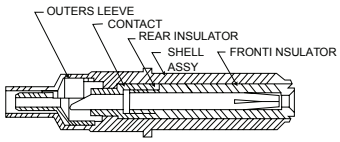
For Codes K

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



For Codes Z and AA

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

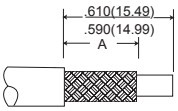


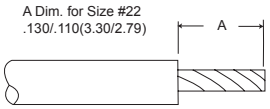
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPXNA/NE LITTLE CAESAR Coax Contact Retention Assembly





Wire Strip Dimensions

Arr. Used In	Part Number without Seal (NA)	Part Number Sealed (NE)	Cable Accommodation		Ins. Dia. Size/Max.	A' Trim Dim.
			Seal 1	Seal 2		
(Size 5 Coax) 32W2M 40W1M 36W7 33W4	P-249-2071-000	249-2101-000	RG180	RG195U	.158 (4.01)	.260(6.60)
	S-249-2076-000	249-2106-000				.250(6.35)
	P-249-2072-000	249-2102-000	RG58	X	.196 (4.98)	.260(6.60)
	S-249-2077-000	249-2107-000				.250(6.35)
	P-249-2073-000	249-2103-000	RG142	X	.196 (4.98)	.260(6.60)
	S-249-2078-000	249-2108-000				.250(6.35)
	P-249-2074-000	249-2104-000	RG179	RG174, RG179, RG316	.111 (2.82)	.350(8.89)
	S-249-2079-000	249-2109-000				.330(8.38)
	P-249-2075-000	249-2105-000	RG178 RG196	X	.075 (1.90)	.260(6.60)
	S-249-2080-000	249-2110-000				.250(6.35)
(Size 9 Coax) W8M 32W4M	P-249-2081-000	249-2111-000	RG180	RG195U	.158 (4.01)	.260(6.60)
	S-249-2086-000	249-2116-000				.250(6.35)
	P-249-2082-000	249-2112-000	RG58	X	.196 (4.98)	.260(6.60)
	S-249-2087-000	249-2117-000				.250(6.35)
	P-249-2083-000	249-2113-000	RG142	X	.196 (4.98)	.260(6.60)
	S-249-2088-000	249-2118-000				.250(6.35)
	P-249-2084-000	249-2114-000	RG179	RG174, RG179, RG316	.111 (2.82)	.350(8.89)
	S-249-2089-000	249-2119-000				.330(8.38)
	P-249-2085-000	249-2115-000	RG178U RG196U	X	.075 (1.90)	.260(6.60)
	S-249-2090-000	249-2120-000				.250(6.35)

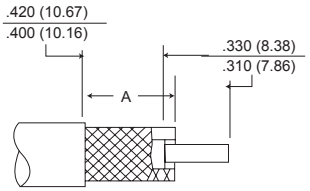
Coaxials without the seal accommodates both Seal 1 and Seal 2 cables.
Coaxials without the seal are utilized in DPXNE connectors supplied less the grommet (modification code: - 29**) and DPXNA connectors.
Standard for the DPXNE/NA series is the A152 modification code indicates .00005 (0.0010) gold plating on coaxial contacts.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

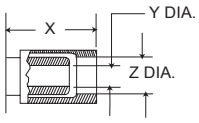
BKA and DPX Contacts

Coaxial Contact Data (continued)

DPXMA/ME (Crimp) Coaxial Contacts Codes: B, C, D, H, P



Cable Trim Dimensions

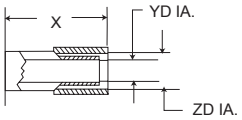


The "X" dimensions is from the rear of the shell.

Arr. Used In	Code Letter	Cable Accommo-dation	Part Number without Seal (MA)*	Part Number Sealed (ME)	Contact Retention	Cable Accommodation Seal 1	Cable Accommodation Seal 2	Ins. Dia. Size/ Max.	A' Trim Dim.	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
B16W3 25W3 32W2 40W1	B	*RG-58/U	P-249-1399-000	P-249-1399-002	Ring Loc	RG58B	X	.200 (5.08)	.460 (11.68)	.760 (19.30)	.128 (3.25)	.211 (5.36)	CA58073	CET-C4 (038869-0004)
			S-249-1400-000	S-249-1400-002							.118 (3.00)	.201 (5.10)		
	C	*RG-180/U RG-195/U	P-249-1401-000	P-249-1401-002	Ring Loc	RG195	RG180B	.158 (4.01)]	.460 (11.68)	.760 (19.30)	.128 (3.25)	.166 (4.22)		
			S-249-1402-000	S-249-1402-002							.118 (3.00)	.156 (3.96)		
	D	RG-174/U, RG-187/U RG-179/U, RG-188/U	P-249-1403-000	P-249-1403-002	Ring Loc	RG179B	RG174, RG179B, RG316	.113 (2.87)	.460 (11.68)	.760 (19.30)	.072 (1.83)	.121 (3.07)	CCT-HX4-524 CCT-408M	
			S-249-1404-000	S-249-1404-002							.062 (1.57)	.111 (2.82)		
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								.062 (1.57)	.111 (2.82)		
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)
											.118 (3.00)	.215 (5.46)		

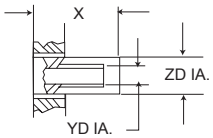
IMPORTANT: These coaxials can only be used in the DPX*MAS or DPX*MB Connector Series.
Please refer to assembly instructions on Page 71.

DPXMA/ME (Crimp) Coaxial Contacts Code: S



Arr. Used In	Code Letter	Cable Accommodation	Part Number	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
W8 32W4	S	RG-55/U RG-142/U	P-249-1958-000	Little Caesar	.592 (15.04)	.130 (3.30)	.238 (6.04)	CA58073 CCT-HX3-156	CET-C8 (323-7011-000)
			S-249-1959-000			.120 (3.05)	.228 (5.79)		

DPXMA/ME (Crimp) Coaxial Contacts Code: G



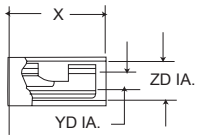
Arr. Used In	Code Letter	Cable Accommodation	Part Number	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
W8 32W4	G	RG-58/U	P-249-1631-000	Little Caesar	.500 (12.70)	.130 (3.30)	.211 (5.36)	CCT-HX4-524 CCT-408M	CET-C8 (323-7011-000)
			S-249-1632-000			.120 (3.05)	.201 (5.10)		

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

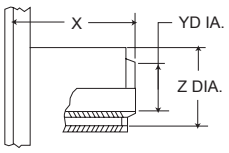
Coaxial Contact Data (continued)

DPXMA/ME (Crimp) Coaxial Contacts Code: J



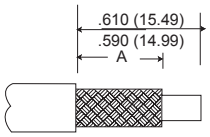
Arr. Used In	Code Letter	Cable Accommodation	Part Number	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
W16W3 25W3 32W2 40W1	J	RG-58/U	P-249-1388-000	Ring Loc	798 (20.27)	.130 (3.30)	.273 (6.93)	Solder	CET-C4 (038869-0004)
			S-249-1390-000			.120 (3.05)	.263 (6.68)		

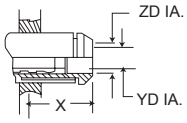
DPXMA/ME (Crimp) Coaxial Contacts Codes: V, AC

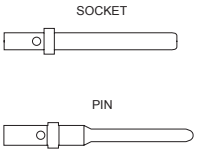


Arr. Used In	Code Letter	Cable Accommodation	Part Number	Contact Retention	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
10W3	V	RG-115/U	P-249-1956-000	Little Caesar	.800 (20.32)	.260 (6.60)	.356 (9.04)	Buchanan 612991	CET 4-8 (323-7008-000)
			S-249-1957-000			.254 (6.45)	.349 (8.86)		
	AC	RG-58/U	S-249-1977-000	Little Caesar	.800 (20.32)	.205 (5.21)	.356 (9.04)		
						.199 (5.05)	.349 (8.86)		

DPXMA/ME (Crimp) Coaxial Contacts Codes: AB, AD, AE, AF, AG (Little Caesar Contact Retention)







*P for Pin. S for Socket
Unsealed accommodates both Seal 1 & Seal 2 cables.
For use with connector supplied less grommet (Code-29**, etc.).

Arr. Used In	Code Letter	Cable Accommodation	Part Number without Seal (MA)	Part Number Sealed (ME)	Contact Retention	Cable Accommodation Seal 1	Cable Accommodation Seal 2	Ins. Dia. Size/Max.	A' Trim Dim.	X Max.	Y Dia.	Z Dia.	Crimp Tool	Extraction Tool
W8 32W4	AB	RG-180/U RG-195/U	P-249-1982-000	P-249-1982-001	Little Caesar	RG180B	RG195	.158 (8.89)	.260 (6.60)	.575 (14.60)	.114 (2.90)	.168 (4.27)	Daniels HX4-210	CET-C8 (323 -7011-000)
			S-249-1983-000	S-249-1983-001				.158 (8.89)	.250 (6.35)		.104 (2.64)	.158 (4.01)		
	AD	RG-58/U	P-249-2017-001	P-249-2017-000		RG58C	X	.196 (4.98)	.260 (6.60)		.114 (2.90)	.168 (4.27)		
			S-249-2018-001	S-249-2018-000				.196 (4.98)	.250 (6.35)		.104 (2.64)	.158 (4.01)		
	AE	RG-142/U	P-249-2019-001	P-249-2019-000		RG142B	X	.196 (4.98)	.260 (6.60)		.114 (2.90)	.168 (4.27)		
			S-249-2020-001	S-249-2020-000				.196 (4.98)	.250 (6.35)		.104 (2.64)	.158 (4.01)		
	AF	RG-174/U, RG-187/U RG-179/U, RG-188/U	P-249-1633-004	P-249-1633-003		RG179	RG174, RG316, RG179B	.111 (2.82)	.350 (8.89)		.114 (2.90)	.168 (4.27)		
			S-249-1634-003	S-249-1634-002				.111 (2.82)	.330 (8.38)		.104 (2.64)	.158 (4.01)		
	AG	RG-178/U RG-196/U	P-249-2061-001	P-249-2061-000		RG178B	X	.075 (1.90)	.260 (6.60)		.114 (2.90)	.168 (4.27)		
			S-249-2062-001	S-249-2062-000				.075 (1.90)	.250 (6.35)		.104 (2.64)	.158 (4.01)		

NOTE:
- The A32W2 & A40W1 (Ring Type Retention); AW8 & A32W4 (LITTLE CAESAR Retention) Coaxial Contact arrangements have been redesigned to provide ease of insertion/ removal of the coaxial contacts. Sealing is accomplished with the addiction of sealing sleeves provided with the coaxial contact assembly.
- The "X" dimension is taken from the rear of the shell.
- Codes G and S are inactive for new design. Use codes AD and AE.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPX Coaxial Contact Assembly Recommendations (For Codes B, C, D, J, K, P)

1. Center contact, rear insulator, crimp ring, support bushing and seal sleeve are packaged separately and shipped with the coaxial assembly.

2. Use impact extraction tool no. CET-C4 (038869-0004). An insertion tool is not required. (See Item 4).

3. 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.

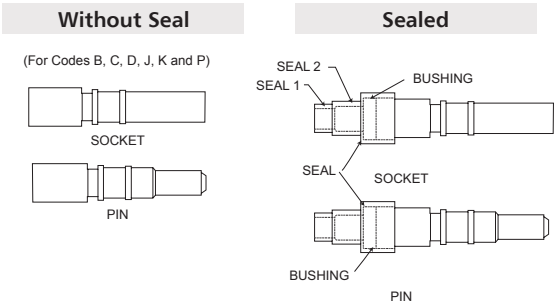
Step 4 - Place rear insulator over dielectric.

Step 5 - Solder innerconductor to center contact.

Step 6 - Insert soldered cable firmly into coaxial with shielding over coaxial shell.

Step 7 - Pull crimp ring forward until stopped and crimped.

Step 8 - 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.



4. To extract coaxial, push back seal sleeve and support bushing. Then push out coaxial from engaging end with CET-C4 (038869-0004) impact tool.

5. 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.

6. 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).

DPX Coaxial Contact Assembly and Extraction Recommendations

1. Use Crimp Tool No. DIE Y211 (995-0002-249), Tool M22520 / 5-01 (995-0001-761).

2. Use extraction tool No. CET-C8. An insertion tool is not required. (See Note 5).

3. 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.

4. 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 on Page 68.

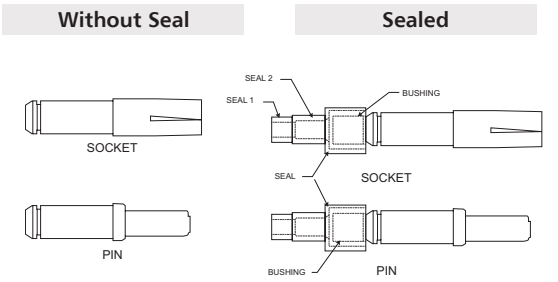
Step 4 - Comb out braid and flare out ends to permit entry of ferrule.

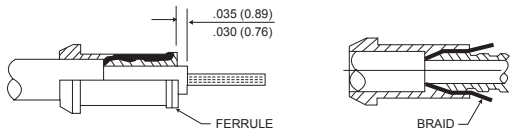
Step 5 - Complete termination per illustration.

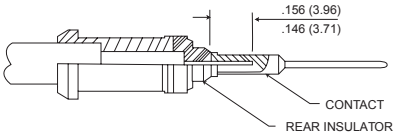
- **a.** Push ferrule under braid as far as it will go. Trim off braid extending beyond shoulder of ferrule, if necessary.
- **b.** While holding ferrule in place pull crimp sleeve forward over braid until it is tight against shoulder an ferrule. Pull firmly against face of ferrule to make sure it is 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.
- **i.** 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.

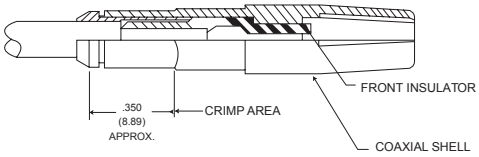
5. To extract: coaxial, push back seal sleeve and support bushing. Slip cable into extraction tool. Push tool into insert until it contacts coaxial retaining shoulder. Grip both cable and tool with one hand and pull coaxial rearward out of insert cavity.

6. 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).









Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPX 404 Coax Contacts – DPXMA Crimp Coaxial Cable Assembly Recommendations

LITTLE CAESAR Contact Assembly Data

For Code S

Step 1 - Trim cable to dimensions shown on Page 69.

Step 2 - Complete termination per instructions as shown below.

- **a.** Solder inner conductor to coaxial contact with crimp ring over braid and rear insulator over inner conductor.
- **b.** Insert cable into coaxial with shell under braid. Crimp ring with Cannon crimp tool CA58073.

For Codes G, H

Step 1 - Trim cable to dimensions shown on Page 69.

Step 2 - Complete termination per instructions as shown below.

- **a.** Solder inner connector to coaxial contact with crimp ring pushed back on cable.
- **b.** 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.

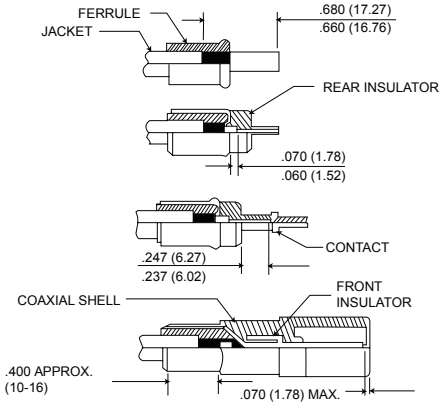
For Code AC

Step 1 - Trim cable to dimensions shown below.

- **a.** 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.
- **b.** 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.
- **c.** 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.

Step 2 - Complete termination per instructions as shown below.

- **a.** 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].



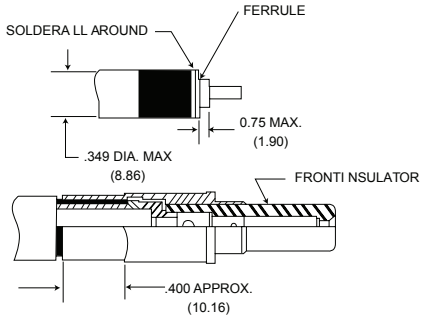
For Code V

Step 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.

Step 2 - Complete termination per instructions as shown below.

- **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.
- **d.** Place front insulator over contact.
- **e.** Push parts into coaxial shell.
- **f.** 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].



Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

DPX 404 Coax Contacts – DPXMA Crimp Coaxial Cable Assembly Recommendations (continued)

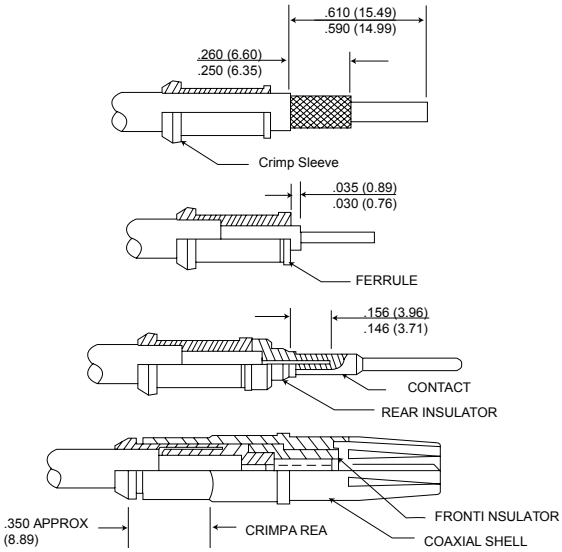
For Codes AB, AD, AE, AF and AG

Step 1 - Trim cable as shown.

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

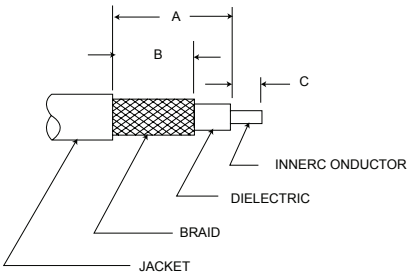
Step 3 - Complete termination per instructions as shown below.

- **a.** Push ferrule under braid as far as it will go. Trim off braid extending beyond shoulder of ferrule, 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.



DPX Crimp Cable Trim Dimensions

Code Letter	Inches			Millimeters		
	A	B	C	A	B	C
B, C, D & P	.420/.400	.460/.440	.330/.310	10.67/10.16	11.68/11.18	8.38/7.87
G	.490/.470	.275/.255	.156/.136	12.45/11.94	6.98/6.48	3.96/3.45
H	.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
S	.678/.658	.275/.255	.156/.136	17.22/16.71	6.98/6.48	3.96/3.45
V	.550/.540	.415/.405	.250/.240	13.97/13.72	10.54/10.29	6.35/6.10
AB, AC, AD, AE, AF, AG	See Page 70 for Dimensions					



Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Coaxial Contact Data (continued)

BKA & DPX Coaxial Cable Reference Guide

RG/U Type	Inner Conductor	Dielectric Material	DOD (Inch)	Jacket Material	O.D (Inch)	Weight (lbs/ft)	Max Oper. Temp, Range (°C)	Max Oper. Voltage (Volts RMS)	Suggested Alt Cable	Code Crimp Type Coax	Code Solder Type Coax	DPX NE/NA Military	BKA* ARINC Type Coax
7	.0359	Air-space PE	.250	PVC	.370	.080	-40 + 80	1,000	Use RG63B	-	I	-	-
9	.0855	PE	.280		.420	.140		4,000	Use RG214		R,AC		Size 1(71W1)
55	.0320		.116	PE	.206 Max.	.032	-55 + 80	1,900	Use RG55B	S	C, J		
58	.0320BC			PVC	0.195	.029	-40 + 80		Use RG58B	J,AC,AD	C, J, Z AB	Size 5/9 Seal 1	Size 1(71W1) Size 5
59	.0253		.146		0.242	.032		2,300	Use RG59B	AF, T	D	-	-
59B	.0230								Use up to 1000 MHz	-	-		
62	.0253	Air-space PE				.038		750	Use RG62A	AF,T	E		
62A									-	-	-		
71					.250 Max.	.046			Use RG71B		E		
115	.0840	PTFE	.250	FG Braid	.375	.148	-55 + 250	5,000	Use RG115A	V	-		Size 1(71W1)
142	.0359		.116		.206 Max.	.047		1,900	Use RG142A	S,AE		Size 5/9 Seal 1	Size 1(71W1) Size 1(71W1A)
142B	.0390		.116	FEP	.195	.050	-55 + 200		-	-		-	Size 1(71W1A) Size 5
174	.0189	PE	.060	PVC	.100	.008	-40 + 80	1,500		D,H,U, AF		Size 5/9 Seal 2	Size 5 Size 12
178	.0120	PTFE	.036	KEL-F	.079 Max.	.0054	-40 + 150	1,000	Use RG178B	E,R,K,AG,		Size 5/9 Seal 1	Size 5
179			0,057		.094 Max.	.010	-55 + 150	1,200	Use RG1798	D,H,U, AF		Size 5/9 Seal 1 Seal 2	
179B			.063	FEP	.100		-55 + 200		-	-	-	-	
180			.103	KEL-F	.141 Max.	.019	-40 + 150	1,500	Use RG180B	C,AB	B	Size 5/9 Seal 1	
180B			0.102	FEP	.145 Max.		-55 + 200		-	AB	-	-	
187			.060	PTFE	.110 Max .	.010	-55 + 250	1,200	Use RG179B	D,H,U, AF	A,K	-	
188	.0201					.011			Use RG316			-	
195	.0120		.102		.155 Max.	.020		1,500	Use RG180B	CAB	B	-	
196			.034		.080 Max.	.006		1,000	Use RG178B	E,R,K, L,AA,AG	AA	Size 5/9 Seal 1	
214	.0888	PE	.285	PVC	.425	.126	-40 + 80	5,000	-	-	R,AC	-	Size 1(71W1) Size 1(71W1A)
223	.035		.116		.216 Max.	.034		1,900			C,J	-	-
225	.0936	PTFE	.285	FG Braid	.430	.180	-55 + 250	5,000			-	Size 5/9 Seal 2	Size 1(71W1)
316	.0201		.060	FEP	.102	.012	-55 + 200	1,200	Use RG188A				-
393	.0936		.285		.390	.165		5,000	Use RG225			-	Size 1(71W1A)
400	.0385		.116		.195	.05		1,900	-			-	Size 1(71W1)
402	.0360		.119	None	.141	.032		2.500	Use RG142B			-	Size 1(71W1) Size 1(71W1A)

For BKA* DPX Series (Crimp, & Solder) Reference MIL-C-17D & DPX NE/NA AS81659 Series

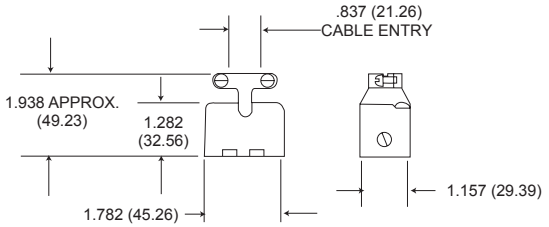
NOTE: This table is shown for reference only. ITT Cannon recommends that the above information be used as a guideline and may be subject to variation between various cable manufacturers. For specific information concerning the actual physical characteristics of a specific cable, contact the manufacturer.

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

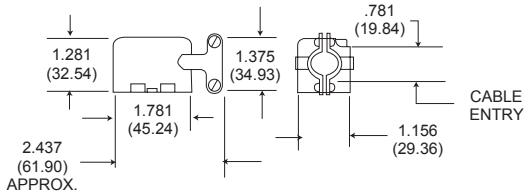
BKA and DPX Contacts

Accessories

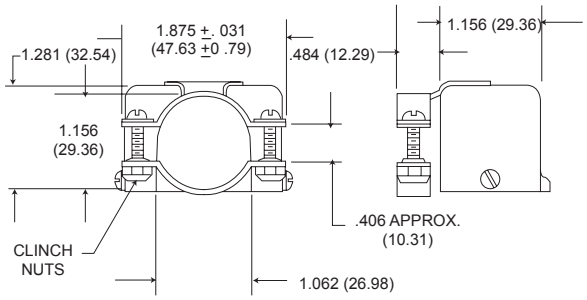
Junction Shells - DPX



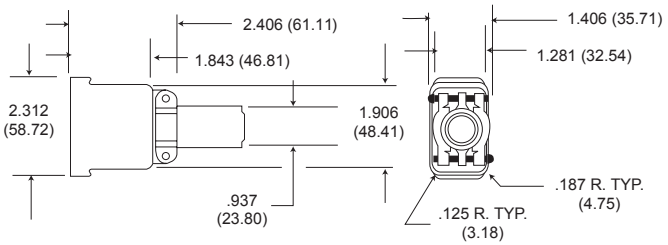
Straight Junction Shell



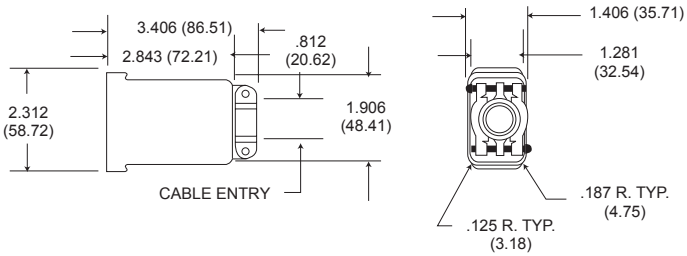
90° Angle Junction Shell



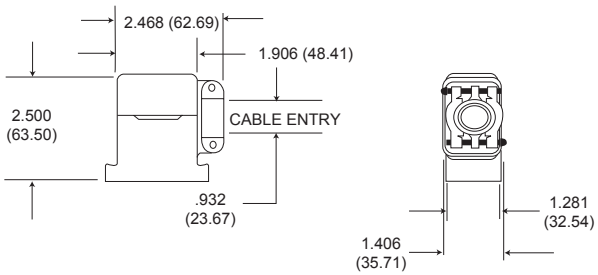
90° Angle DPX2 Junction Shell (Side Outlet)



Diecast Straight Junction Shell (DPXA Only)



Diecast Straight Junction Shell - Long (DPXA Only)



Diecast 90° Angle Junction Shell (DPXA Only)

Junction Shell	Style	Part Number
Straight Junction Shell*	DPXA DPX2	20745-21 20745-8
90° Angle	DPXA (Right) DPXA (Left) DPX2 (Right) DPX2 (Left)	20745-22 20745-23 20745-10 20745-11
90° Angle DPX2 Junction Shell (Side Outlet)	DPX2	20745-12
Diecast Straight Junction Shell (DPXA Only)	DPXA	22017
Diecast Straight Junction Shell - Long (DPXA Only)	DPXA	22017-2
Diecast 90° Angle Junction Shell (DPXA Only)	DPXA	22017-1

* DPX2 Junction Shells are also used on DPXB connectors.
Diecast junction shells may be used on DPXA connectors. They have 4-40 NC-2B tapped mounting holes for attaching to the shell mounting hardware.

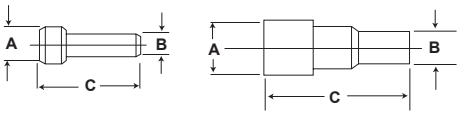
Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Accessories (continued)

Sealing Plugs – DPX and BKAE Environmental Connectors Only

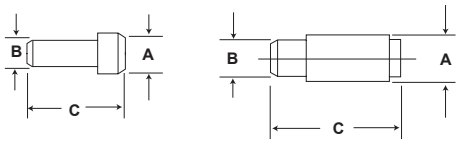
Material: Teflon
(All others thermoplastic)



Contact Size	Part Number	Color	A	B	C
22	225-1013-000	Black	.063 (1.6)	.040 (1.1)	.469 (12)
20	225-0070-000	Red	.085 (2.2)	.053 (1.3)	.800 (20.4)
16	225-0071-000	Blue	.125 (3.2)	.074 (1.8)	1.447 (36.8)
12	225-0072-000	Yellow	.365" (9,3mm)	.120 (3.1)	1.416 (36)
#5 and #9 Coax	225-0090-000	White	.365" (9,3mm)	.287 (7.3)	.835 (21.3)
8	225-1059-000	White	.359 (9.2)	.269 (6.9)	.528 (13.5)

Filler Plugs – DPX and BKAD Non-Environmental Connectors Only

Material: Teflon
(All others thermoplastic)



Contact Size	Part Number	Color	A	B	C
22	225-0094-000	Black	.069 (1.7)	.051 (1.3)	.420 (10.7)
20	225-0095-000	Red	.083 (2.1)	.069 (1.7)	.350 (8.9)
16	225-0096-000	Blue	.131 (3.3)	.108 (2.7)	.320 (8.1)
12	225-0097-000	Yellow	.187 (4.7)	.156 (4.0)	.320 (8.1)
#5 Coax (Pin)	225-0090-000	White	.165 (4.2)	.287 (7.3)	.835 (21.3)
#5 Coax (Socket)	225-0098-000	White	.275 (7.0)	.251 (6.4)	.450 (11.4)

Size 8 Pin Filler Plug FR-FR 225-1065-000/-001 short (flush with insulator)
Size 8 Pin Filler Plug RR-RR 225-1066-000

Size 8 Socket Filler Plug RR-RR 225-1069-000
Size 8 Pin & Socket Filler FR-RZ 225-1072-000 (plastic)/-001 nickel/metal

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Accessories (continued)

BKA Cavity Reducers

Part Number	Description
021-8756-000	Pin
021-8757-000	Socket

#5 Coax to #12 Contact

Cavity reducers are available when additional circuits are required for size 12 power contacts. These reducers, having the internal configuration of size 12 power contact, are inserted into the size 5 coaxial insulator cavity to create size 12 power contact cavity. (Non removable)

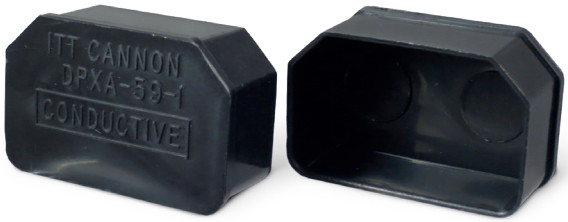
BKA Dust Caps

Part Number	Description
025-1121-001	BKAD 1-A & B-Plug
025-1122-001	BKAD 1-C-Plug
025-1123-001	BKAD 2&3-A & B-Plug
025-1124-001	BKAD 2&3-C-Plug
025-1155-001	BKAD 1-A&B-Receptacle
025-1156-001	BKAD 1-C-Receptacle
025-1157-001	BKAD 2&3-A & B-Receptacle
025-1158-001	BKAD 2&3-C-Receptacle

Conductive dust caps protect against static electricity

Note: For plug connectors with EMI grounding springs (Mod22) use the following dust cap part numbers: BKA Size 1 plug 025-1218-001, BKA Size 2 plug 025-1218-000

DPX Dust Caps



Part Number	Description
025-0767-001	DPXB-60-1 for 34 Shell
025-0749-001	DPX-59-1 for 33 Shells

Conductive dust caps protect against static electricity

Polarization Kits

BKA Polarization Kits consist of: 3 Keys or Posts, 2 Screws and a Retaining Plate
DPX Polarization Kits consist of: Keys or Posts, Nuts, and Washers

Connector Type	Kit	Kit Part Number	Material/Finish
BKA	Key	320-1067-000	Zinc Nickel/ Electroless Nickel
	Post	320-1067-003	
DPX	Key	320-0052-002	
	Post	320-0052-001	

Dimensions shown in inches (mm)
Specifications and dimensions subject to change. Product images are reference only.

BKA and DPX Contacts

Accessories (continued)

BKA (ARINC 600) Cross Reference-Part Number/Customer Use Drawings

Description	Component Part Number	Customer Use Drawing Number
Contacts	030-1975-009	030-1975-009
	030-1975-010	030-1975-010
	030-2259-000	030-2259-000
	030-2273-000	030-2273-000
	030-2280-000	030-2280-000
	030-2286-000	030-2286-000
	030-2356-000	030-2356-000
	030-2357-000	030-2357-000
	030-2358-000	030-2358-000
	031-1113-009	031-1113-009
	031-1113-010	031-1113-010
	031-1287-000	031-1287-000
	031-1302-000	031-1302-000
	031-1303-000	031-1303-000
	031-1308-000	031-1308-000
	031-1351-000	031-0000-343
	031-1351-001	
	031-1351-002	
	031-1351-003	
	031-1352-000	031-0000-344
	031-1252-000	
	031-1252-002	
	031-1352-003	
Replacement Coax Body Assembly	021-0144-000	021-0144-000
	021-0144-001	021-0144-001
	021-0144-002	021-0144-002
	021-0144-003	021-0144-003
	021-0144-004	021-0144-004
	021-0144-006	021-0144-006
	021-0144-008	021-0144-008
	021-0144-011	021-0144-011
Size #5 Coax Contacts	349-0013-000	349-0000-000
	349-0014-000	349-0000-001
	349-0015-000	349-0000-002
	349-0016-000	349-0000-001
	349-1003-000	349-0000-301
	349-1009-000	

For part numbers not listed, consult ITT for applicable customer-use drawing.

Description	Component Part Number	Customer Use Drawing Number
Size #12 Shielded Contact	249-1767-000	249-1767-000
	249-1767-001	249-1767-001
	249-1768-000	249-1768-000
	249-2203-000	249-2203-000
Size #1 Coax Contacts	249-1521-000	249-1521-000
	249-1522-000	249-1522-000
	249-1522-002	249-1522-002
	249-1554-000	249-1554-000
	249-1604-000	249-1604-000
	249-1604-001	249-1604-001
	249-1604-002	249-1604-002
	249-1882-000	249-1882-000
	249-1882-002	1250Y
	249-1885-002	
	249-5027-008	249-5027-008
	249-5027-017	249-5027-017
	249-5123-000	249-5027-000
	249-5123-001	249-5027-007
	349-1053-000	349-0000-306
	349-1053-001	
	349-1053-002	
	349-1053-003	
	349-1053-004	
	3491053-005	
	349-1053-006	
	349-1053-007	
	349-1053-008	
	349-1053-009	
Size #8 Coax Contacts	349-1081-001	TI_002_ Size_8_Inst.
	349-1081-002	
	349-1086-003	
	349-1086-004	
	349-1087-001	
	349-1087-003	
	349-1087-004	
	349-1087-007	
	349-1088-001	
	349-1088-002	
	349-1149-000	

Description	Component Part Number	Customer Use Drawing Number
Replacement Coax Termination Kit	249-1521-002	249-1521-002
	249-1522-009	249-1522-010
	249-1522-010	249-1522-010
	249-1554-002	249-1554-002
	249-1604-003	249-1604-003
	249-1604-004	249-1604-004
	249-2201-000	249-1521-002
	249-2202-000	249-1522-010
	249-5027-013	249-5027-013
	249-5027-015	249-5027-007
	249-5027-016	249-5027-016
	320-0051-000	1250Y
	320-1066-000	320-000-305
	320-1066-001	
	320-1066-002	
	320-1066-003	
	320-1066-004	
	320-1066-005	
	320-1066-006	
Coax	025-1121-001	025-0000-054 (Conductive Only)
	025-1122-001	
	025-1123-001	
	025-1124-001	
	025-1155-001	025-0000-055 (Conductive Only)
	025-1156-001	
	025-1157-001	
	025-1158-001	
Filler Plugs	225-0094-000	225-0000-014
	225-0095-000	
	225-0096-000	
	225-0097-000	
	225-0098-000	
	225-0099-000	
	225-1058-000	
Sealing Plugs	225-0072-000	225-0000-006
	225-0090-000	225-0090-000
	225-1013-000	225-0000-008
	225-1014-000	
	225-1015-000	

Description	Component Part Number	Customer Use Drawing Number
Replaceable Inserts	143-1906-000	143-0000-079
	143-1906-001	
	143-1907-001	
	143-1907-001	
	143-1908-000	143-0000-081
	143-1908-001	
	143-1909-000	
	143-1909-001	
	143-1910-000	143-0000-077
	143-1910-001	
	143-1911-000	
	143-1911-001	
	143-1912-000	143-0000-080
	143-1912-001	
	143-1913-000	
	143-1913-001	
	143-1958-000	143-0000-079
	143-1958-002	
	143-1960-000	
	143-1960-002	
	143-2015-000	143-0000-078
	143-2015-001	
	143-2016-000	
	143-2016-001	
	143-2065-000	1247Y
	143-2066-000	
	143-2067-000	
	143-2068-000	
	143-2085-000	**143-0000-079**
	143-2085-001	
	143-2086-000	
	143-2086-001	

Dimensions shown in inches (mm)
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