



ITT

Interconnect Solutions
Canon, 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

Miniature Rack and Panel DPA



DPA-Miniature Rack/Panel

DPA plugs are rugged, miniature rack/panel plugs utilizing maximum insert space in a one-piece shell. Polarization is accomplished with a keystone cornered shell and the coupling means is friction. Operating temperature for the DPA is - 55 C to + 125 C (-67 F to + 257 F)

DPAF - Float Mount Shells

DPAF plugs are DPA plugs with four rivets with washers on the contact termination side of the connector. Floating rivets are .093 (2.36) I.D. with a minimum of .032 (0.81) float.

DPAL - Large Flange Shells

DPAL plugs are DPA plugs with a large flange.

DPAMA - Little CAESAR' Contact Assembly

DPAMA plugs are DPA plugs with the proven LITTLE CAESAR contact assembly for rear insertion, release and extraction of crimp type contacts. Insertion requires no tool; extraction requires an expendable plastic tool. Hard dielectric, closed-entry socket insert has lead-in chamfers for positive mating of pin contacts. Contacts are of simpler, stronger design for greater resistance to bending or damage and are crimpable with the M22520/1-01 tool.

Material Specifications

		DPA/DPAF/DPAL	DPAMA
Shell	Material	Aluminum alloy	Aluminum alloy
	Finish	Cadmium plate with yellow chromate	Cadmium plate with yellow chromate
Insulator	Material	Melamine	Diallyl phthalate
	Material	Copper alloy	Copper alloy
Contacts	Material	Copper alloy	Copper alloy
	Finish	Gold over copper alloy	Gold over copper alloy
	Termination	Solder pot	Crimp

How to Order

DPA - 24C2 - 34 P
 DPA - 32 - 34 P -
 DPA R MA - 32 - 33 S - *



RoHS version

R - RoHS compatible

CLASS

- F - Float mount shell
- L - Large flange shell
- MA - LITTLE CAESAR contact assembly with crimp, snap in contacts

CONTACT ARRANGEMENT

SHELL TYPE

33 for plug, 34 for receptacle

CONTACT TYPE

- P - Pin
- S - Socket

MOUNTING HOLE STYLES

- DPA**
- No Dash - .093 (2.36) Dia.
 - A - .093 (2.36) Dia., countersunk 82 to .173 (4.39) Dia.
 - B - .120 (3.05) Dia., countersunk 100 to .225 (5.72) Dia.
 - C - .093 (2.36) Dia., countersunk 100 to .182 (4.62) Dia.
 - E - .120 (3.05) Dia.
 - F - .100 (2.54) Dia.
 - G - .120 (3.05) Dia., countersunk 82 to .203 (5.16) Dia.
 - H - Tapped #4-40 NC-2
 - J - .093 (2.36) Dia., countersunk 100 to .192 (4.88) Dia.

DPAMA

- No Dash - .093 (2.36) Dia., countersunk 82 to .173 (4.39) Dia.
- A - .093 (2.36) Dia.
- B - .120 (3.05) Dia., countersunk 100 to .225 (5.72) Dia.
- C - .093 (2.36) Dia., countersunk 100 to .182 (4.62) Dia.
- D - .136 (3.45) Dia.
- E - .120 (3.05) Dia.
- F - .100 (2.54) Dia.
- G - .120 (3.05) Dia., countersunk 82 to .203 (5.16) Dia.
- H - Tapped #4-40 NC-2

MODIFIER

Add FO to order connector less contacts. Consult factory for other modifications.

Arrangements with coax contacts, such as 24C2, may be ordered without coax contacts by substituting a "W" for the "C" e.g., DPA-24C2-34P with two coax contacts becomes DPA-24W2-34P with two cavities. The customer can then order separately any snap in coax contact shown on page 99. The customer is thus able to "create" arrangements with infinite combinations of coax contacts.

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



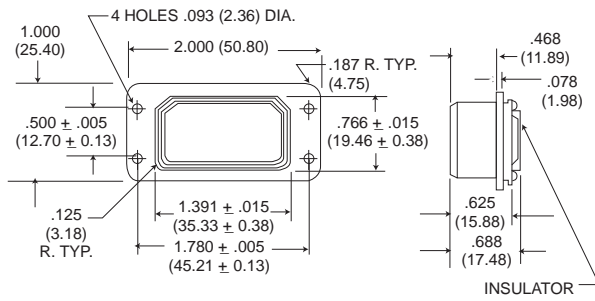
Dimensions shown in inches (mm)
 Specifications and dimensions subject to change

www.ittcannon.com

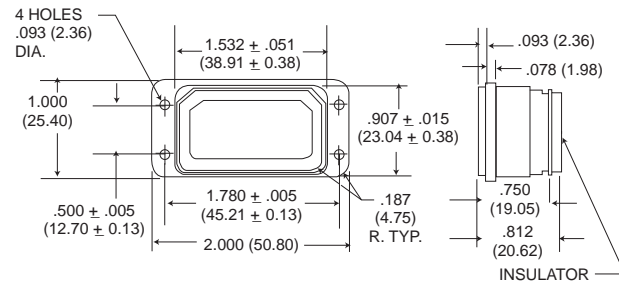
Miniature Rack and Panel DPA

Solid Shell

DPA-33

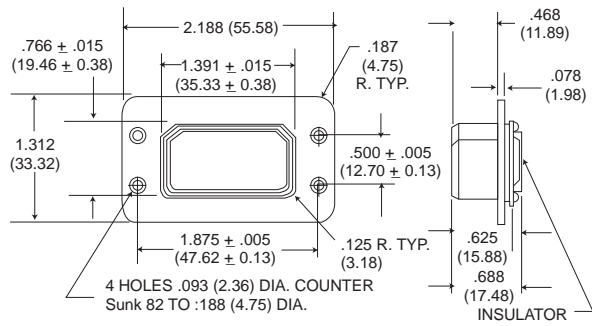


DPA-34

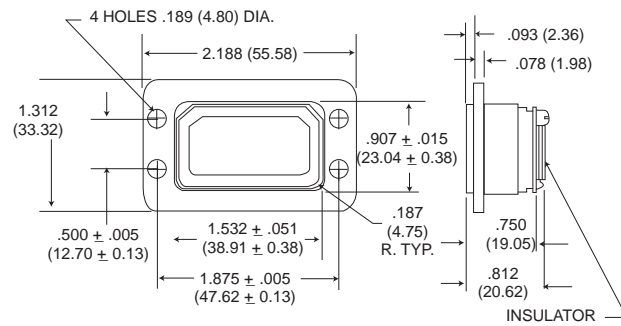


Large Flange Shell

DPAL-33

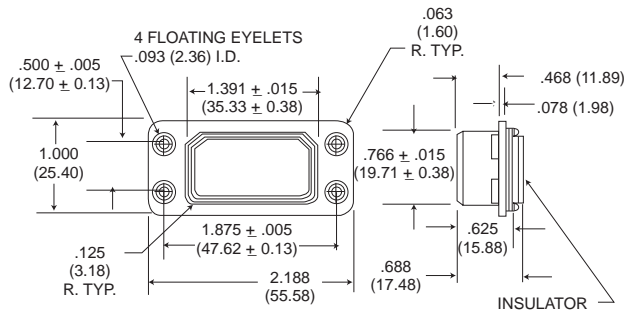


DPAL-34

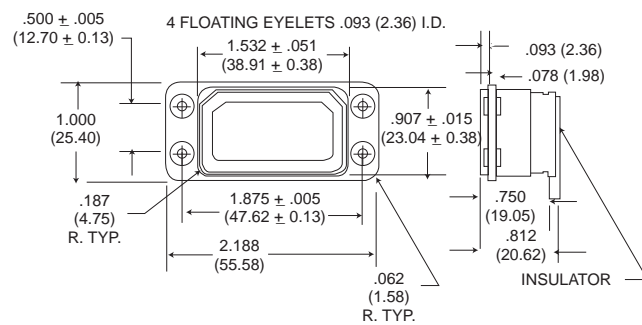


Float Mount Shell

DPAF-33



DPAF-34



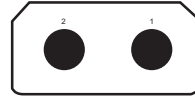
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

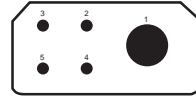
Miniature Rack and Panel DPA

Contact Arrangements

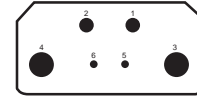
Face view of pin insert



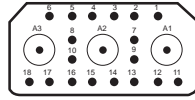
2
2 #4
2900



5
1 #4, 4 #14
2500

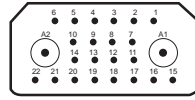


6
2 #8, 2 #12, 2 #20
2600 (5,6)

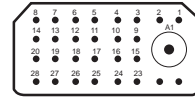


No. of contacts & Wire Size
Test Voltage AC (RMS)

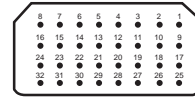
21C3
18 #20, 3 coax
1500 (1-18)
1000 (A1, A2, A3)



24C2
22 #20, 2 coax
1500 (1-22)
1000 (A1, A2)



29C1
28 #20, 1 coax
1500 (1-28), 1000 (A1)



32
32 #20
1500

Arrangement also available with LITTLE CAESAR contact assembly and may be employed in any shell type.

DPA Coaxial Variations

Termination Code	Variations of Basic Arrangements	Coaxial Type/Part Number	Max. Coaxial Extension From Rear of Flange			
			34 Shell	33 Shell		
1	A21C3	*24C2	*29C1	FIXED	.953 (24.21)	.453 (11.51)
2	*21C3	D24C2	A29C1	FIXED	.859 (21.82)	.359 (9.12)
3*	B21C3	L24C2	C29C1	P-249-5012-000 S-249-5008-000	1.031 (26.91)	.500 (12.70)
4	C21C3	P24C2	F29C1	FIXED	1.094 (27.79)	.594 (15.09)
5	D21C3	K24C2	K29C1	FIXED	1.047 (26.59)	.561 (14.28)
6*	E21C3	N24C2	L29C1	P-249-5052-002 S-249-5051-001	1.218 (30.94)	.670 (17.02)
7	F21C3	B24C2	M29C1	FIXED	1.094 (27.79)	.594 (15.09)
8	F21C3	C24C2	N29C1	FIXED	1.094 (27.79)	.609 (15.47)
9	H21C3	R24C2	P29C1	FIXED	1.125 (28.98)	.625 (15.88)
10	21HV3	24HV2	29HV1	FIXED	1.062(26.98)	.554 (14.07)
11*	J21C3	H24C2	G29C1	P-249-5052-002 S-249-5051-001	1.218 (30.94)	.670 (17.02)
	21W3	24W2	29W1		Coaxials Not Supplied	

*Termination codes - 3, - 6, - 11 utilize snap - in nonremovable coaxials which are supplied with the connector. These coaxials may be ordered separately when ordering the connectors without coaxials (21W3 24W2 and 29W1 layouts).

Variations of Basic Arrangements	Coaxial Type/Part Number	Max. Coaxial Extension From Rear of Flange		
		34 Shell	33 Shell	
24W2	29W1	Coaxials Not Supplied*		
E24C2	B29C1	Crimp Type for RG-58/U cable	1.239 (31.47)	.737 (18.72)

*DPAMA coaxials purchased separately may be ordered under the following part numbers: Pin (Plug): 249-1741-000
Socket (receptacle): 249-9008-000
Crimp Tool: CA58073-0000
Extraction tool: CET-C11

NOTE: DPA snap in coaxials and DPAMA crimp coaxials are NOT interchangeable but are intermateable.

Contact Data				Termination Tooling									
Contact Size	Wire Size Accorn.	Contact Part Number		Crimp Tool Part Number	Locator	Color	Insertion Tool No.	Color	Extraction Tool No.	Color	Insertion/Extraction Tool Number	Color	
		Pin	Socket									Ins.	Ext.
20	20-24	030-9173-003	031-9174-003	MS3191-3 MS3191-1 MS3198-1 CCT750 CCT2016-20	MS3198-1P L750-20						CIET 20		
Hi Volt 20	20-24	143-0304-000	249-9104-000	None					CET-C11				
Coax	RG-58/U	Plug 249-1741-000	Jack 249-9008-000	Burndy MR8PV-2 Section 160					CET-C11				
	RG-55/U	249-9103-000	249-9104-000	None					CET-C11				



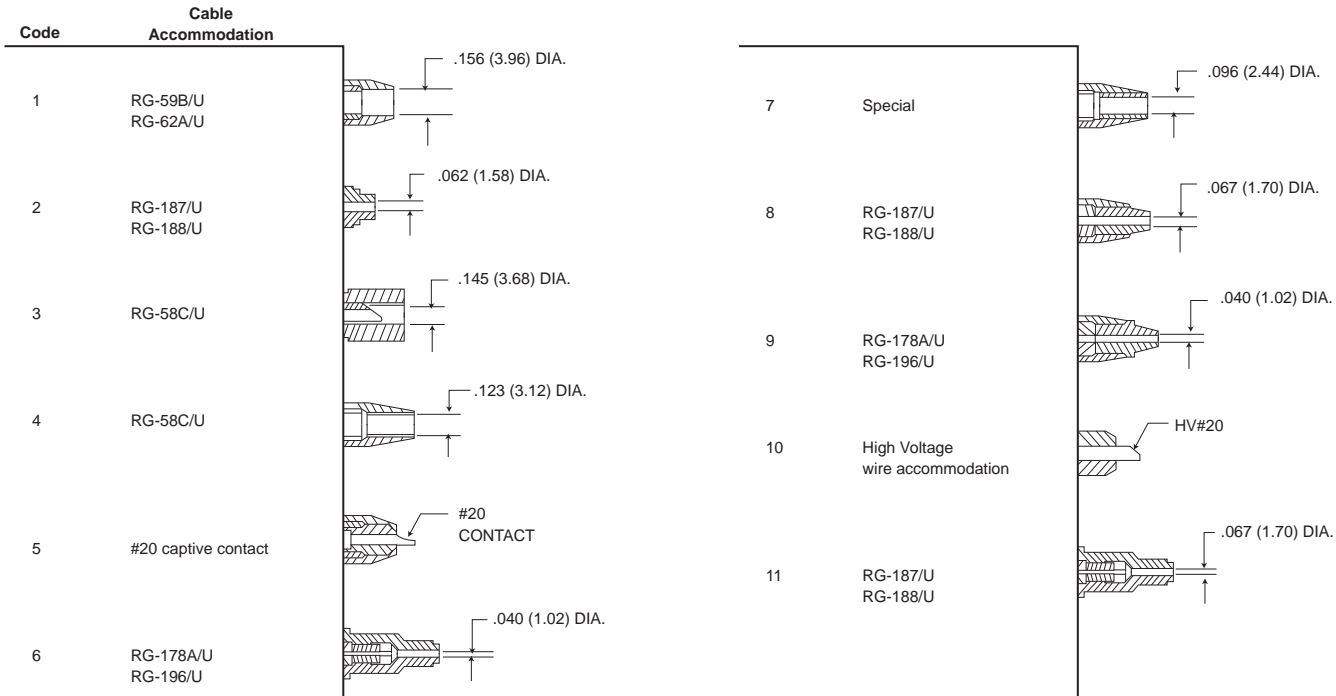
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

Miniature Rack and Panel DPA

Contact Terminations

All dimensions are ± .010 (0.25) unless indicated otherwise.



Rack and Panel

MAX. CONTACT EXTENSION from rear of insulator

Contact Size		20	18	14	12	8	4
Contact	Pin	.156 (3.96)	.140 (3.56)	.125 (3.18)	.218 (5.54)	.218 (5.54)	.250 (6.35)
Extension	Socket	.156 (3.96)	.250 (6.35)	.344 (8.74)	.218 (5.54)	.266 (6.76)	.531 (13.49)

Contact Arrangements

Dust Caps



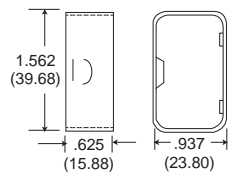
DPA-59 FOR 33 SHELLS
025-0572-000



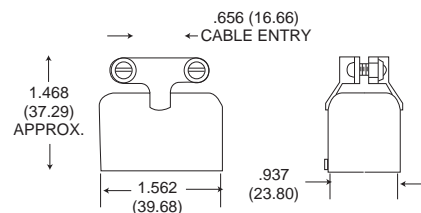
CONDUCTIVE (BLACK)
025-0573-001
DPA-60 FOR 34 SHELLS
025-0573-000

Conductive: DPA-60-1
025-0573-001 (Protects
Against Static Electricity)

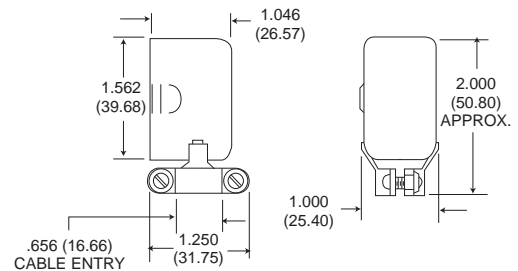
22054 Potting Shell



20746 Straight Junction Shell



20746-1 90° Angle Junction Shell



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

www.ittcannon.com



DPGM/DPJM/DPJMB

Environmental, Rectangular Connectors for Aircraft, Missile and Ground Support Equipment Applications

Cannon's DPGM, DPJM, and DPJMB connectors are designed for applications where space and weight are prime considerations. Their rectangular shape provides maximum space utilization and permits easy removal of equipment for inspection and/or repair. DPGM and DPJM connectors feature crimp snap-in contacts with ring-type retention while DPJMB connectors feature the LITTLE CAESAR® rear release contact retention assembly (rear insertion, release and extraction of crimp snap-in contacts). They both have one piece diallyl phthalate insulators with polychloroprene wire sealing grommets. They also incorporate a peripheral seal design that allows an axial tolerance of up to .125 (3.175) while still effecting a seal. The 34 shell utilizes a rubber seal encased in such a way that the step down design of the mating 33 shell seats into and against it.

All of these connectors utilize keystone corners for polarization and are coupled by friction. Two shell styles with different mounting provisions are available.



For all new applications, the referenced connectors will be available only with insulators in the normal position, that is, pin insulators in the 34 (receptacle) shells and socket insulators in the 33 (plug) shells.

For replacements it is suggested that where practical, customers using these connectors with reversed insulators change to connectors with insulators in the normal position. However, for those who are unable to change we will furnish connectors with reversed insulators to maintain their equipment usage.

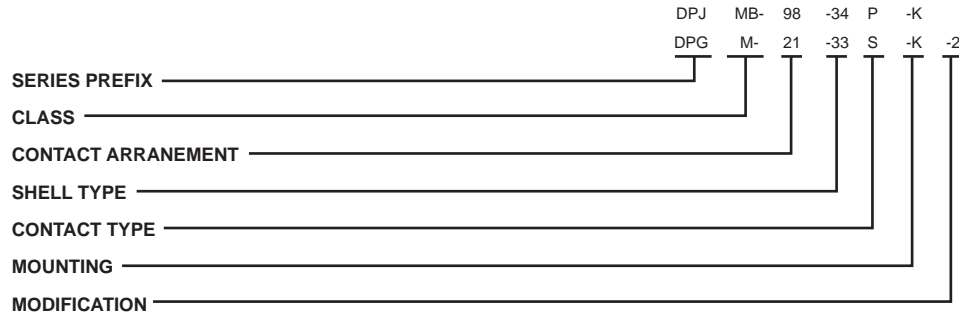
Rack and Panel

Standard Data

DPGM/DPJM/DPJMB		
Shell	Material	Aluminum alloy
	Finish	Cadmium plate with olive drab irridite
Insulator	Material	Diallyl phthalate
	Termination	Crimp
Contacts	Material	Copper alloy
	Finish	Gold plate
Contact Arrangements	No. of Contacts	8, 12, 15, 16, 20, 21, 32, 59, 98

How to Order

Due to low usage will not be offered with RoHS finish



Contacts, coaxials and junction shells must be ordered separately, except for the DPJMB where the contacts are supplied with the connector. When (ordering or reordering) please specify the 3-4-3 contact part number as shown. We have cross-referenced these new part numbers with the previous part numbers (which have been obsoleted) for your convenience.

Example:
031-0900-001 new "3-4-3" part number
(038819-001) previous part number

SERIES PREFIX

DPG, DPJ

CLASS

M - One piece insulator ring - type retention
MB - LITTLE CAESAR contact retention assembly

CONTACT ARRANGEMENTS

DPGM - C8, 12, 15, 16, 20C4, 21 and 32
DPJM - C21, 59, 59C10, and 98
DPJMB - 59, 98

SHELL TYPE

33 for plug, 34 for receptacle

CONTACT TYPE

P for pin, S for socket

MOUNTING

33-K-With 6-32 clinch nuts (replaces 33-A)
33-B-Clearance holes for 6-32 screw
34-A-Floating eyelet with 6-32 tapped I.D.
34-B-Floating eyelet with .140 I.D.

MODIFICATION

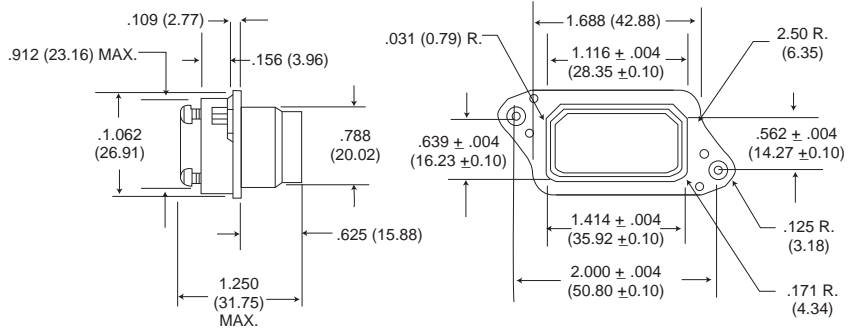
-2-.125 (3.18) removed from front lip of -33 shell

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

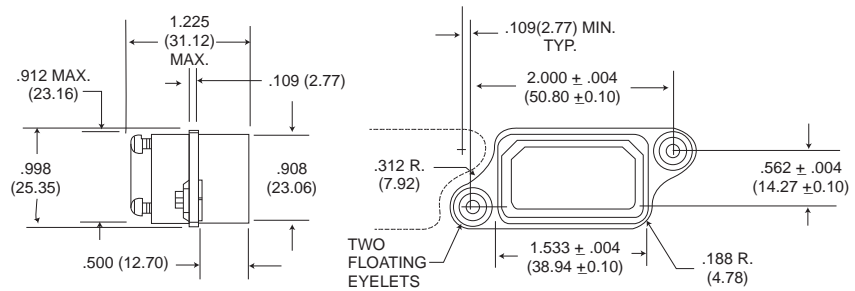


Shell Dimensions - DPGM

33 SHELL

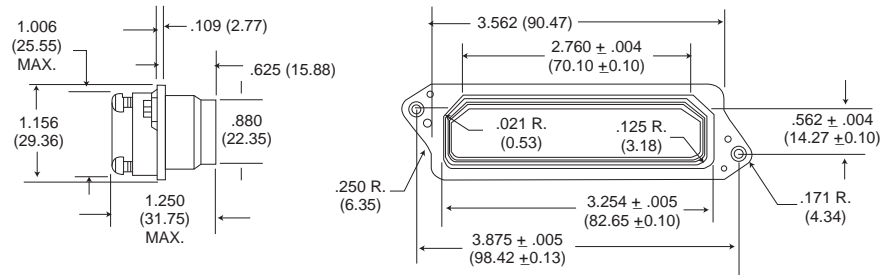


34 SHELL

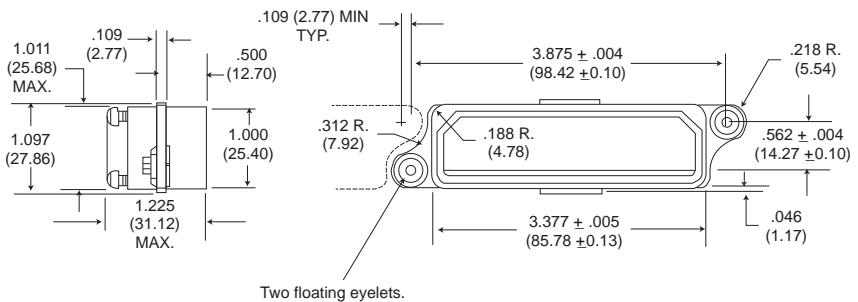


Shell Dimensions - DPJM/DPJMB

33 SHELL



34 SHELL



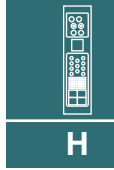
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

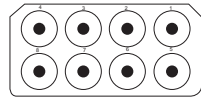
DPGM/DPJM/DPJMB

Contact Arrangements

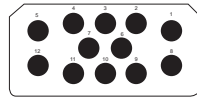
DPGM



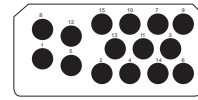
Rack and Panel



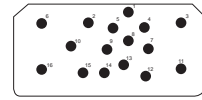
C8*
8 coax (1-8)
1000



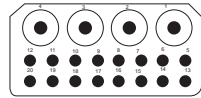
12*
12 #16 (1-12)
See note



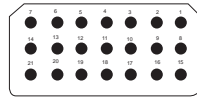
15*
15 #16 (1-15)
See note



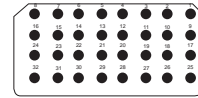
16*
5 #20 (3,6,10,11 & 16)
1500
9 #20 (1,4,5,7-9, 13-15)
1700
(2 #20 (2&12))
1500



20C4*
16 #20 (5-20)
1500
4 COAX (1-4)
1000



21*
21 #20 (1-21)
1500

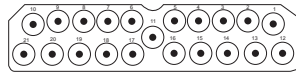


32*
32 #20 (1-32)
1500

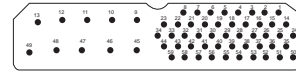
No. of Contacts & Wire Size
Test Voltage AC (RMS)

*All DPGM arrangements have a 1500 VAC test voltage except for arrangements 12 and 15, which is 3200 VAC for contact 1,5,8 and 12. The remaining contacts have a 2200 VAC test voltage. All coaxials have 1000 VAC rms test voltage.

DPJM/DPJMB

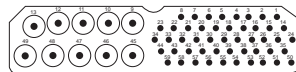


C21*
21 COAX (#1-21)
1000

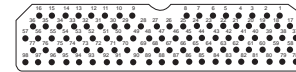


59
49 #20 (1-8,14-44 & 50-59)
1500
10 #12 (9-13 & 45-49)
1500

No. of Contacts & Wire Size
Test Voltage AC (RMS)



59C10*
49 #20 (1-8, 14-44&50-59)
1700
10 COAX (9-13&45-49)
1000



98*†
98 #20 (1-98)
1500

No. of Contacts & Wire Size
Test Voltage AC (RMS)

* All DPJM and DPJMB power contact arrangements have a 1500 VAC rms test voltage. Coaxials have 1000 VAC rms voltage.
†* Available with LITTLE CAESAR contact assembly (DPJMB).

Note: No new part numbers will be assigned with 33P and 34S configurations by ITT Interconnect Solutions. Consult factory for further details.

Current Carrying Capacity of Wires and Cables	
Wire Size	Amperage
#4	80
#8	46
#12	23
#16	13
#20	7.5



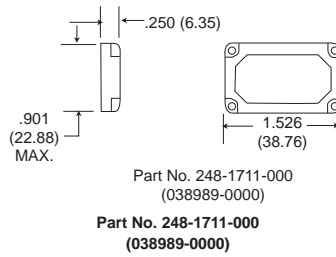
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

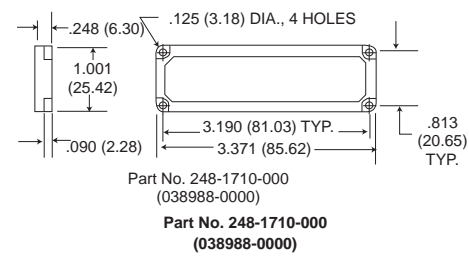
Junction Shells

DPGM

DPGM junction shells are essential for proper installation of connector and are ordered separately.

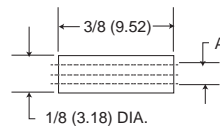


DPJM/DPJMB



Wire Bushings

Small wires should be provided with rubber bushings before crimping. Approximately 1/16 (1.59) of an inch of bushing is visible when installed into grommet. Grommets will seal with out bushings or wire .096 (2.44) to .185 (4.70) to diameter.



Sealing Wires on #12 and Coaxial Contacts

New Part Number	Existing Part Number	Wire Size O.D.	I.D A
012-0319-000	021604-0002	.040-.083	.062
012-0435-000	021604-0004	.080-.096	.080

Hole Fillers



All holes in grommet require filling either by a wire and contract, or by means of wire hole plugs.

Contact Size	Part Number
20	225-0070-000
16	225-0071-000
12	225-0072-000
Coaxial	225-0085-000

Contact/Coaxial Data and Termination Tool

DPJMB	Contact Size	Wire Size Accom.	Contact Part Number		Crimp Tool Part No.	Locator	Locator Color	Extraction Tool No.	
			Pin	Socket					
	20	20-24	030-9081-001	031-9082-001	M22520/1-01	M22520/1-02	red	CET 20-14	
	12	12-14	030-9185-002	031-9186-002	M22520/1-01	M22520/1-02	yellow	CET 12-4	
DPGM/DPJM	Contact Size	Wire Size Accom.	Contact Part Number		Crimp Tool Part No.	Locator	Locator Color	Extraction Tool No.	
			Pin	Socket					
		20	20-24	031-0905-000 (038820-0001)	031-0900-001 (038819-0001)	M22520/1-01	M22520/1-02	CIT 20	CET 20A
		16	16-20	031-0944-000 (040370-0000)	031-0945-000 (040371-0000)	M22520/1-01	M22520/1-02	CIT 16	CET 16
		12	12-14	031-0909-000 (038825-0000)	031-0908-000 (038826-0000)	M22520/1-01	M22520/1-02	CIT 12	CET 12
	20-18	18	031-0907-000 (038820-0000)	031-0906-000 (038819-0002)	M22520/1-01	M22520/1-02	CIT 18	CET 20A	
Coaxials	Contact Size	Wire Size Accom.	Contact Part Number		Crimp Tool Part No.	Insertion Tool No.	Extraction Tool No.		
			Plug	Receipt					
	COAX	50 ohm (RG 196/U)	249-1178-001 (038834-0001)	249-1177-001 (038833-0001)	M22520/5-01 with Y-193 Die	CIT C2	CET C1		
	COAX	75 ohm (RG 1871U)	249-1176-001 (038832-0001)	249-1175-001 (038831-0001)	WT400 995-001-071	CIT C2	CET C1		
	COAX	95 ohm (RG 195/U)	249-1174-001 (038830-0001)	249-1173-001 (038829-0001)	WT402 HX3-138	CIT C2	CET C1		
COAX	150 ohm	249-1172-001 (038828-0001)	249-1171-001 (038827-0001)	WT408	CIT C2	CET C1			

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

www.ittcannon.com



Rack and Panel

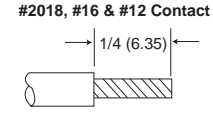
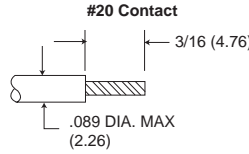


DPGM/DPJM/DPJMB

Assembly Procedures

Wiring and Crimping Contacts

Wires should be stripped to the dimension appropriate to the contact use



1. CONTACT INTO CRIMP TOOL

Drop contact into crimp tool, it will locate on the contact shoulder.

2. WIRE INTO CONTACT

Take wire stripped to dimensions above, and push into the contact crimp pot until it is completely home. Where outside diameter of wire in the #12 or COAXIAL contact is less than .096 (2.44), a rubber bushing must be slipped over the wire before crimping (see page 103).

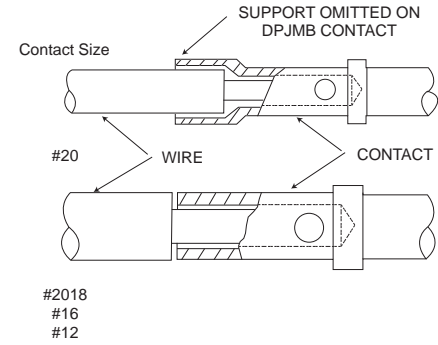
3. CRIMP

Squeeze the crimp tool to secure the wire into the contact. It is not possible to remove the contact from the crimp tool until crimp is completed.

4. REMOVED WIRED CONTACT FROM TOOL

5. INSPECT

If wires are stripped and crimped correctly, the wire will be visible through the small inspection hole in the contact.



Contact Insertion (DPGM/DPJM)

Inserting #20 & #16 Contacts



Inserting Coaxial & #12 Contacts



After the contacts have been crimped, they should be threaded through the junction shell and inserted with the tools shown below. It is recommended that the contacts be inserted in the center horizontal row first, then work to the top and bottom horizontal rows.

Contact	Tool Description	Assembly Number
#20	CIT - 20	038894-0000
#16	CIT - 16	038895-0000
#12	CIT - 12	038896-0000
Coaxial 50-75.95 & 150 ohm	CIT - C2	038901-0000

Contact Extraction (DPGM/DPJM)

Extracting #20 & #16 Contacts



Extracting Coaxial & #12 Contacts



If it is necessary at any time to remove contacts, this may be accomplished with an impact extraction tool. Simply place the correct tool on the engaging end of the contact and push. A reversible tip is provided for pins and sockets.

Contact	Tool Description	Assembly Number
#20	CET - 20A	038889-0100
#16	CET - 16	038888-0000
#12	CET - 12	038890-0000
Coaxial 50-75.95 & 150 ohm	CET - C1	038869-0000

Rack and Panel



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

www.ittcannon.com

Assembly Procedures

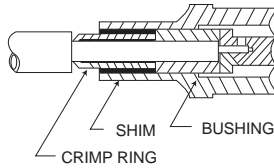
Coaxial Contact Assembly (DPGM/DPJM)

Cable Stripping

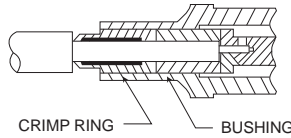


	Cable Trim Dimensions			Cable Entry Dimensions		
	A	B	C	D min. dia.	E max. dia.	F min. dia.
150 ohm	3/16 (4.76)	1/16 (1.59)	5/32 (3.97)	.154 (3.91)	.183 (4.65)	.202 (5.13)
95 ohm	3/16 (4.76)	1/8 (3.18)	5/64 (1.98)	.106 (2.69)	.139 (3.53)	.153 (3.89)
75 ohm	3/16 (4.76)	1/8 (3.18)	5/64 (1.98)	.122 (3.10)	.158 (4.01)	
50 ohm	1/4 (6.35)	1/8 (3.18)	5/64 (1.98)	.106 (2.69)	.136 (3.53)	

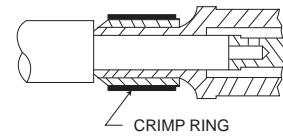
50 Ohm Contact (RG-196U)
(assembly steps 1, 2, 3, 4, 5 & 8)



75 Ohm Contact (RG-187U)
(assembly steps 1, 2, 3, 5 & 8)

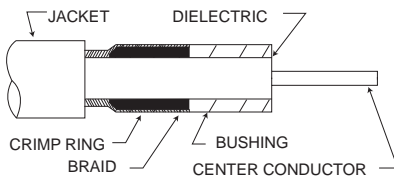


95 Ohm Contact (RG-195U)
(assembly steps 1, 3, 6, 7 & 8)

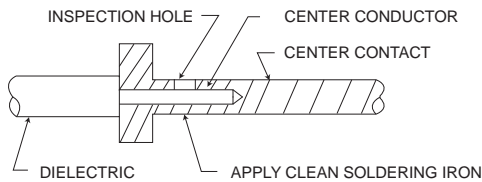


Assembly Steps

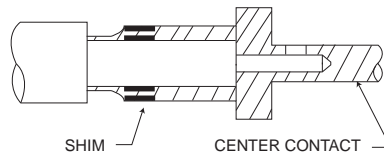
1. After the coaxial cable has been stripped to the proper dimensions, tin the center conductor. If O.D. of cable is less than .096 (2.44), slip rubber bushing over wire. (50, 75 & 95 ohm)
2. Assemble crimp ring under braid and add bushing to cable. (50 & 75 ohm)



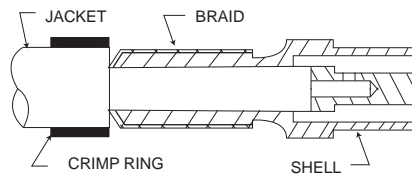
3. The center contact is supplied loose in the polyethylene bag. Insert the tinned conductor into the contact. Wire must be visible through inspection hole and dielectric pushed against contact shoulder. For 150 ohm contact shoulder must be flush against bushing. Heat contact with a clean soldering iron. Avoid solder outside contact, (50, 75, & 95 ohm)



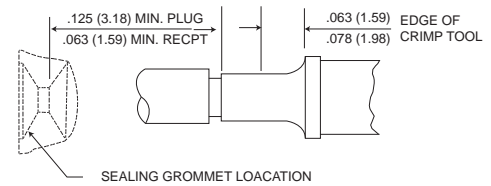
4. Wrap shim around braid. (50 ohm)



5. Feed cable and assembled parts into coaxial shell. Care is required if braid is to fit smoothly inside the shell. (50 & 75 ohm)
6. Thread crimp ring over cable. Feed center contact into coaxial shell with the shell between the dielectric and the braid. (95 ohm)



7. Slip crimp over the braid. (95 ohm)
8. Crimp - crimp tool must be located 1/16 (1.58) to 5/64 (1.98) from shoulder of coaxial. (50, 75 & 95 ohms)



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

www.ittcannon.com

DPGM/DPJM/DPJMB

Junction Shell, Assembly of



Slip junction shell over grommet and secure with four screws and lock washers.

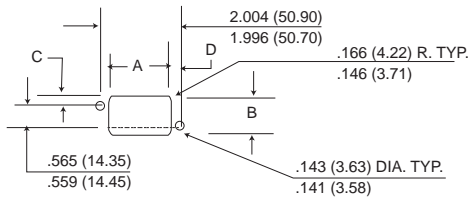


Rack and Panel

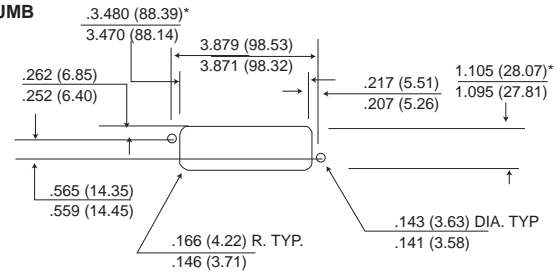
Panel Cutouts

33 and 34 Shell Styles

DPGM



DPJM
DPJMB



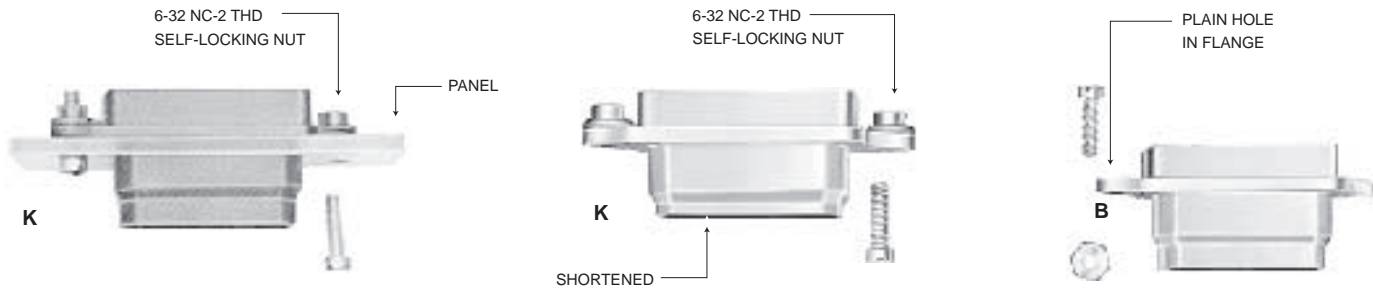
*These dimensions allow for float mounting.

	A	B	C	D	Gap Between Flanges after mating
DPGM-33	1.609(40.87)	.985(25.02)	.214(5.44)	.203(5.16)	.500(12.70)
	1.599(40.61)	.975(24.76)	.204(5.18)	.193(4.90)	.625(15.88)
DPG-34	1.636(41.55)	1.011(25.68)	.227(5.76)	.190(4.83)	.500(12.70)
	1.626(41.30)	1.001(25.42)	.217(5.51)	.180(4.57)	.625(15.88)

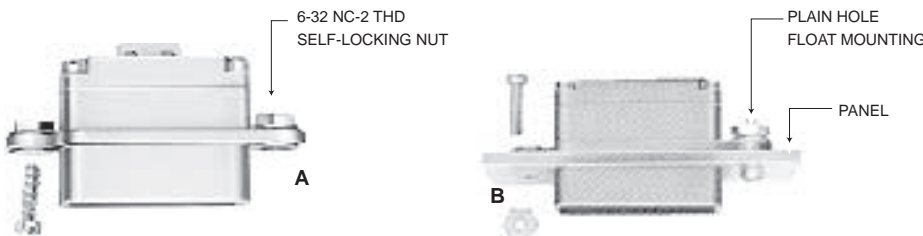
PANEL THICKNESS: Maximum sum of both panel thicknesses is 7/16 of an inch when 33 plug and 34 receptacle are back mounted. Shell style 33 modifications A and -2 can be back mounted ONLY. Shell style 33 modifications B and shell style 34 modifications B and H may be front or back mounted. Consult factory for additional information.

Mounting Variations

33 Shell



34 Shell



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

www.ittcannon.com

- Rectangular Rack/Panel Connectors
- Non-Environmental Single and Two-Gang Configurations

Cannon's DPD Rack and Panel connectors are distinguished from other connector lines by their rectangular shape which provides maximum space utilization an rack or chassis mounted equipment. The DPD is used in any commercial application where moisture/ environmental resistance is not required, such as I/O connector or computer panels, GFE test equipment, and GSE ground support equipment. For example, one-half of a connector assembly is mounted on a radio rack, or panel, and the mating connector is attached to a cable that

connects to another instrument or rack. The DPO has a temperature range of -55°C to +125°C (-67°F to +257°F). In addition to standard DPD connectors with solder contacts, the DPDMA version has rear insertion, rear release crimp, snap-in contacts that feature the LITTLE CAESAR®, rear. release contact retention assembly used in many other ITT product lines.



Rack and Panel



DPD-33/DPDMA-33 Plug



DPD-34/DPDMA-34 Receptacle



DPD2-33/DPD2MA-33 Plug



DPD2-34/DPD2MA-34 Receptacle

DPD - Standard Rack and Panel Connector Series

DPD connectors are the original rectangular rack and panel connectors with solder type contact termination, accommodating a wide range of contact arrangements and a variety of endbells and junction shells.

DPDMA - LITTLE CAESAR® Contact Assembly

DPDMA connectors are DPD's with the LITTLE CAESAR contact assembly for rear insertion, release and extraction of crimp type contacts. Contacts are inserted by hand, and extraction is accomplished with the use of an expendable plastic

tool. Hard dielectric, closed-entry socket inserts have lead-in chamfers for positive mating of pin contacts during engagement. Both the DPD and DPDMA connectors are intermateable.

DPD2 - Two Gang Version of DPD

DPD2 connectors are two-gang versions of the DPD solder type connectors designed to handle double the circuitry in instrument panel disconnect applications. The DPD2 is identical in shell style and materials to the DPD, but features a center coupling screw for positive engagement. Various coupling devices are shown on pages 114-115. The DPD2 may also be ordered without the engaging device by

omitting the letter code "M" as shown in the ordering nomenclature. Two optional polarizing posts give up to six alternate insert positions (page 112).

DPD2MA - LITTLE CAESAR® Contact Assembly

DPD2MA connectors are DPD2 connectors with the LITTLE CAESAR contact assembly for rear insertion, release and extraction of crimp type contacts. Contact insertion is by hand and extraction is by an expendable plastic tool. Hard dielectric, closed-entry socket inserts have lead-in chamfers for positive mating of pin contacts during engagement. DPD2 and DPD2MA connectors are intermateable.

Performance and Material Specifications

MATERIALS AND FINISHES

		DPD/DPD2	DPDMA/DPD2MA	DPD/DPDMA Specifications
Shell/Polarization Hardware	Material	Aluminum alloy	Aluminum alloy	QQ-A-591/A380
	Finish	Natural cadmium plate	Natural cadmium plate	QQ-P-416
Insulator	Material	Melamine or fabricated phenolic	Diallyl phthalate	MIL-M-14
	Material	Copper alloy	Copper alloy	QQ-C-533
Contacts	Finish	Silver or gold plate*	Silver or gold plate*	QQ-C-365 MIL-G-45204
	Termination	Solder pot	Crimp	N/A

*Size 20 contacts have gold plate finish. All other sizes have silver plate finish. Tin alloy may be substituted for silver.

VOLTAGE/CURRENT DATA

Insert Voltages/Test Results

There was no evidence of breakdown when the test voltages given were applied, for a period of one minute, between the contacts and between the shell and the contacts with spacings as noted.

Laboratory Conditions

Ambient Temperature	23°C to 27°C (73°F to 80.6°F)
Relative Humidity	69% to 73%
Barometric Pressure	29.70 (754.38) to 29.75 (755.65)

Current Carrying Capacity of Wire and Cables

Wire Size	#4	#6	#8	#10	#14	#16	#20
Amperage	100	80	60	35	25	20	7.5

Contact Clearance	Test Voltage 60 cps (ac rms)	Contact Clearance	Test Voltage 60 cps (ac rms)
1/64 (0.40)	540 Volts	3/16 (4.76)	3650 Volts
1/32 (0.79)	1000 Volts	13/64 (5.16)	3850 Volts
3/64(1.19)	1300 Volts	7/32 (5.56)	4050 Volts
1/16 (0.59)	1700 Volts	15/64 (5.95)	4240 Volts
5/64 (1.98)	2050 Volts	1/4 (6.35)	4420 Volts
3/32 (2.38)	2350 Volts	19/64 (7.54)	4940 Volts
7/64 (2.78)	2600 Volts	5/16 (7.94)	5100 Volts
1/8 (3.18)	2900 Volts	3/8 (9.52)	5750 Volts
9/64 (3.57)	3050 Volts	25/64 (9.92)	5890 Volts
5/32 (3.97)	3250 Volts	13/32 (110.32)	6020 Volts
11/64 (4.37)	3450 Volts	7/16 (11.11)	6300 Volts
		1/2 (12.70)	6800 Volts

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

www.ittcannon.com



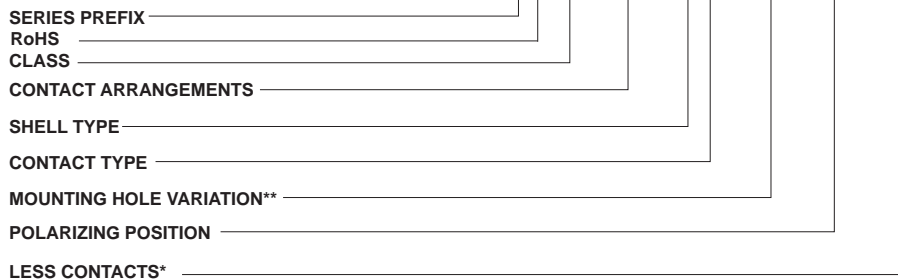
DPD/DPDMA

How to Order



Rack and Panel

DPD B28 - 34 P - 1G (POS.Y)
 DPD R MA -32C2 - 33 S - 1A - F0



SERIES PREFIX

DPD - ITT Prefix

CLASS

Blank - Solder contacts
 MA - Crimp type contacts in LITTLE CAESAR contact assembly

CONTACT ARRANGEMENTS

See page H-108 (solder termination). Page H-109. (crimp termination)

SHELL TYPE

33 for plug. 34 for receptacle

CONTACT TYPE

P - Pin
 S - Socket

MOUNTING HOLE VARIATION

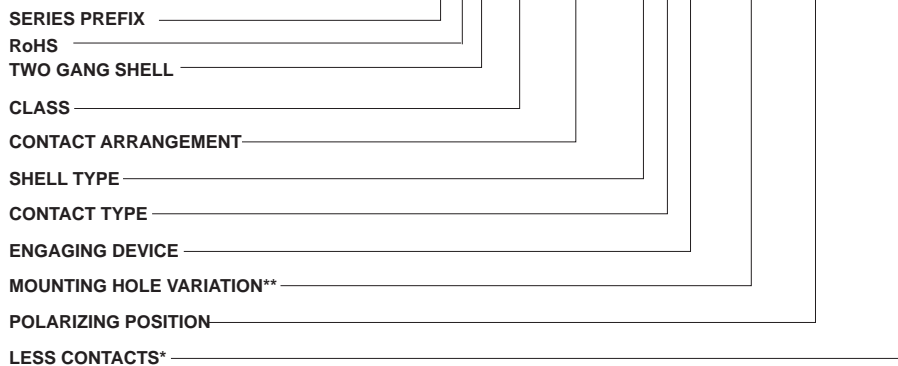
1A - .144 (3.66) dia., for #6 flathead screw
 1B - .144 (3.66) dia., 100° countersunk for #6 flathead screw
 1G - .152 (3.86) dia., 82°C countersunk for #6 flathead screw
 1L - .144 (3.66) dia., 82° countersunk for #6 flathead screw

POLARIZING POSITION

N,V,W,X,Y,Z (See page H-114)

RoHS Finish
 Zinc Plate ASTM-B-633
 with Trivalent Chromate Coating

DPD 2 - 56 - 34 P M
 DPD 2 - 70 - 33 S M - 1A
 DPD R 2 MA- 156 - 34 P M - 1B (POS.X) - F0



SERIES PREFIX

DPD - ITT Prefix

RoHS version

R - RoHS compatible

TWO-GANG SHELL

2 - Two-gang shell

CLASS

Blank - Solder contacts
 MA - Crimp type contacts in LITTLE CAESAR contact assembly

CONTACT ARRANGEMENTS

See page H-108 (solder termination), page H-109 (crimp termination)

SHELL TYPE

33 for plug, 34 for receptacle

CONTACT TYPE

P - Pin
 S - Socket

ENGAGING DEVICE

For devices available, see pages H-112 to H-113

MOUNTING HOLE VARIATION**

1A - .144 (3.66) dia., for #6 cap screw
 1B - .144 (3.66) dia., 100° countersunk for #6 flathead screw
 1G - .152 (3.86) dia., 82°C conutersunk for #6 flathead screw

POLARIZING POSITION

N,V,W,X,Y,Z (See page 116)

*DPDMA/DPD2MA only

**Omit code for standard .144 (3.66) dia. mounting hole 82° countersunk for #6 flathead screw.

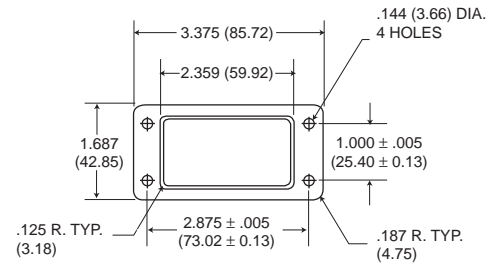
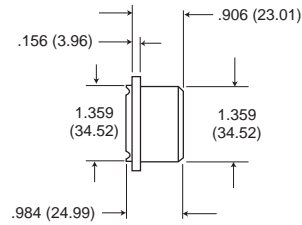


Dimensions shown in inches (mm)
 Specifications and dimensions subject to change

www.ittcannon.com

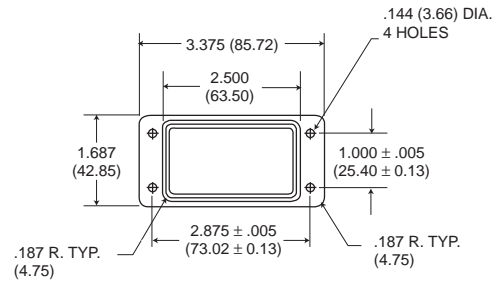
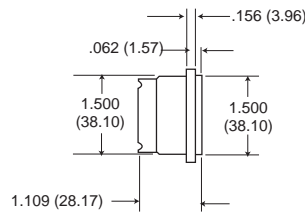
Single Gang

33 Plug



For mounting hole variations, see page 108

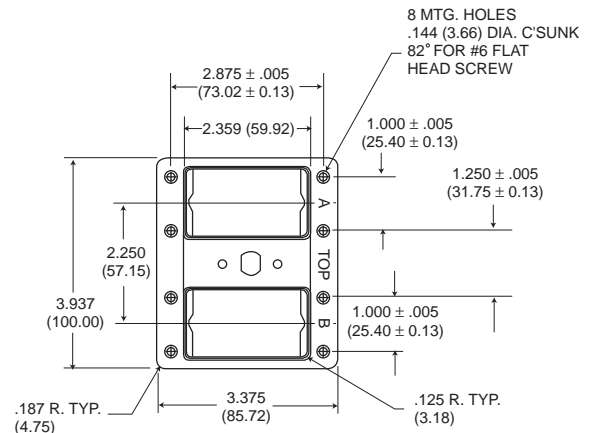
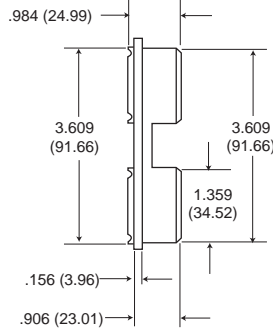
33 Receptacle



For mounting hole variations, see page 108

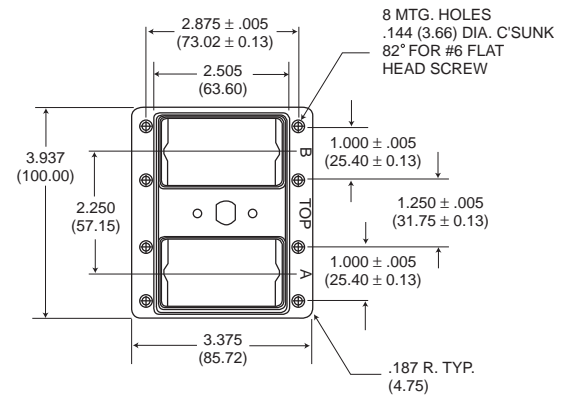
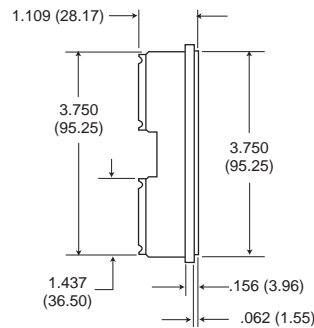
Two Gang

33 Plug



For headscrew variations, see page 115

34 Receptacle

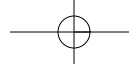


For headscrew variations, see page 115

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

www.ittcannon.com





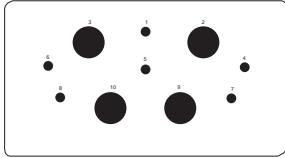
DPD/DPDMA

Contact Arrangements - DPD Solder

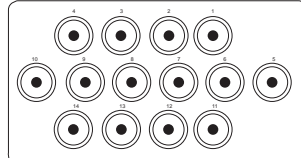
Face view of pin insert
 Illustrations are not actual size
 See page 107 for test voltage



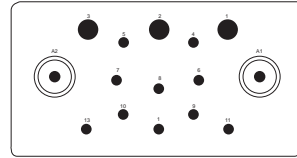
Rack and Panel



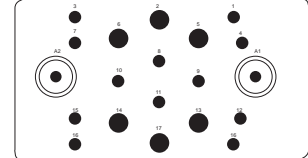
MOLDED N10
 TOTAL CONTACTS:10
 2-#16(#1,5) CLEARANCE 5/32 (3.97)
 4-#16(#4,6,7,8,) 9/64 (3.57)
 4-#4(#2,3,9,10) 9/64 (3.57)



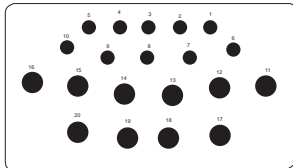
MOLDED AJ14 for crimp AN14 for solder
 TOTAL CONTACTS:14
 14 min. coax. (#1-14) CLEARANCE 1/16 (1.59)



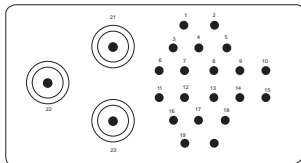
MOLDED 15C2
 TOTAL CONTACTS:15
 2-#14 (#4,5) CLEARANCE 3/16 (4.76)
 2-#14 (#6,7) 7/32 (5.56)
 2-#14 (#9,10) 1/4 (6.35)
 1-#14 (#8) 9/32 (7.14)
 3-#14 (#11-13) 13/64 (5.16)
 3-#10 (#1-3) 11/64 (4.37)
 2-coax, (A1,A2) grounded



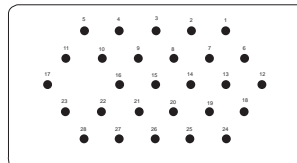
MOLDED B20C2
 TOTAL CONTACTS:20
 8-#16 (#1,3,4,7,12,15,16,18) CLEARANCE 3/64 (1.19)
 2-#16 (#8,11) 11/64 (4.37)
 2-#16 (#9,10) 5/32 (3.97)
 6-#14 (#2,5,6,13,14,17) 5/32 (3.97)
 2-coax, (A1,A2) grounded



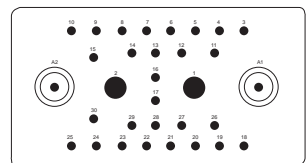
MOLDED G20
 TOTAL CONTACTS:20
 3-#14(#7,9) CLEARANCE 5/64 (1.98)
 7-#14(#1-6,10) 1/16 (1.59)
 2-#10(#18,19) 1/16 (1.59)
 8-#8(#11-17,20) 1/16 (1.59)



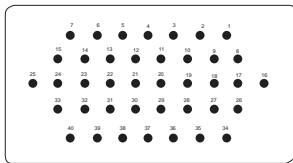
MOLDED 23C3
 TOTAL CONTACTS:23
 20-#16(#1-20) CLEARANCE 1/16 (1.59)
 3-coax.(#21-23) grounded



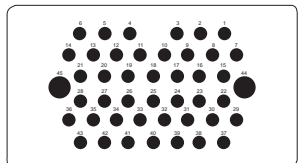
MOLDED B28
 TOTAL CONTACTS:28
 28-#16(#1-28) CLEARANCE 7/64 (2.78)



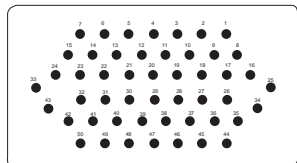
MOLDED 32C2
 TOTAL CONTACTS:32
 28-#16(#3-30) CLEARANCE 3/64 (1.19)
 2-#8(#1,2) (.156 Dia.) 3/64 (1.19)
 2-coax, (A1, A2) grounded



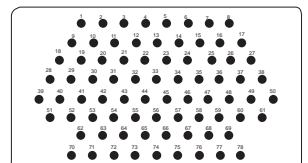
FABRICATED 40
 TOTAL CONTACTS:40
 40-#16(#1-40) CLEARANCE 1/16 (1.59)



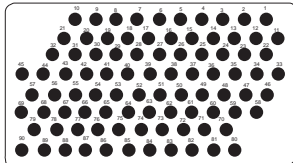
MOLDED 45
 TOTAL CONTACTS:45
 43-#16(#1-43) CLEARANCE 3/16 (1.19)
 2-#10(#44, 45) 3/64 (1.19)



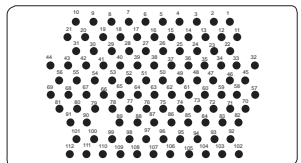
MOLDED 50
 TOTAL CONTACTS:50
 50-#16(#1-50) CLEARANCE 1/16 (1.59)



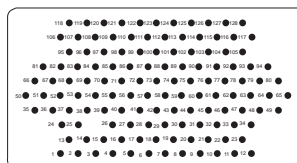
MOLDED 78
 TOTAL CONTACTS:78
 78-#16(#1-78) CLEARANCE 1/32 (0.79)



MOLDED 90
 TOTAL CONTACTS:90
 90-#16(#1-90) CLEARANCE 1/32 (0.79)



FABRICATED 112
 TOTAL CONTACTS:112
 112-#20(#1-112) CLEARANCE 3/64 (1.19)

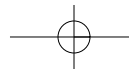


FABRICATED 128
 TOTAL CONTACTS:128
 128-#20(#1-128) CLEARANCE 3/64 (1.19)



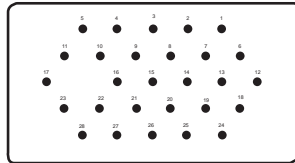
Dimensions shown in inches (mm)
 Specifications and dimensions subject to change

www.ittcannon.com

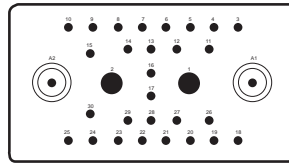


Contact Arrangements - DPDMA Crimp

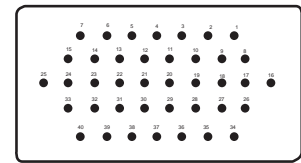
Face view of pin insert
Illustrations are not actual size



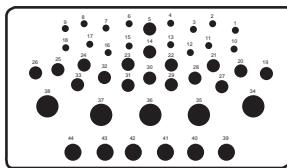
MOLDED B28
TOTAL CONTACTS:28 CLEARANCE 28-#16(#1-28) 7/64 (2.78)



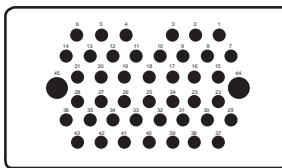
MOLDED 32C2*
TOTAL CONTACTS:32 CLEARANCE 28-#16(#3-30) 3/64 (1.19) 2-#8(#1,2) (.156 Dia.) 3/64 (1.19) 2-coax. (A1, A2) grounded



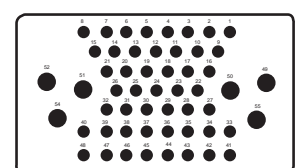
MOLDED 40
TOTAL CONTACTS:40 CLEARANCE 40-#16(#1-40) 1/16 (1.59)



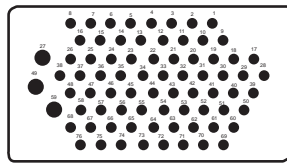
MOLDED A44
TOTAL CONTACTS:44 CLEARANCE 16-#20(1-4, 5-13, 15-18) 3/64 (1.19) 17-#16(5,14,19-33) 3/64 (1.19) 6-#12(39-44) 3/64 (1.19) 5-#8(34-38)(.142 Dia.) 3/64 (1.19)



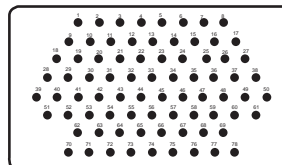
MOLDED 45
TOTAL CONTACTS:45 CLEARANCE 43-#16(#1-43) 3/64 (1.19) 2-#10(#44, 45) 3/64 (1.19)



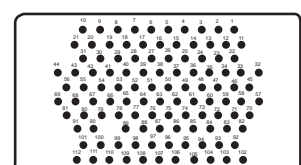
MOLDED F54
TOTAL CONTACTS:54 CLEARANCE 48-#16(#1-48) 1/32 (0.79) 6-#12(49-54) 1/16 (1.59)



MOLDED 76
TOTAL CONTACTS:76 CLEARANCE 73-#20(1-26,28-48, 50-58,60-76) 5/64 (1.98) 3-#16(27,49,59)



MOLDED 78
TOTAL CONTACTS:78 CLEARANCE 78-#16(#1-78) 1/32 (0.79)



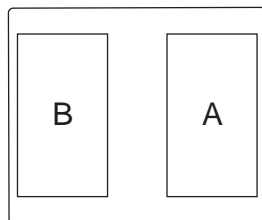
FABRICATED 112
TOTAL CONTACTS:112 CLEARANCE 112-#20(#1-112) 3/64 (1.19)

*32C2 arrangement may be purchased less coaxial contacts as -30. All contact variations shown for 32C2 may be purchased in the DPDMA.

DPD2/DPD2MA

DPD2 Insert assemblies consist of two standard DPD insert mounted in a DPD2 shell. They are identified as insert "A" and insert "B". Any two inserts with similar contact arrangements can be used together.

The tabulation lists the DPD2 contact arrangement ordering number for the the combination of two inserts. For complete information on each insert, see page 113. Consult factory for combination layouts not shown.



DPD2/DPD2MA Insert Designations (face view - 34 shell)

DPD2 Arr. No	Side A	Side B
N20	N10	N10
G48	G20	B28
B56	B28	B28
64	32	32
64C4	32C2	32C2
B68	40	B28
77	45	32
78	50	28
80	40	40
90	45	45
B98C2	B20C2	78
G98	78	G20

DPD2 Arr. No	Side A	Side B
H98C2	H20C2	78
100	50	50
A110	32	78
123	45	78
A123	78	45
152	76	76
156	78	78
180	90	90
190	78	112
224	112	112
256	128	128

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

www.ittcannon.com



Rack and Panel

DPD/DPDMA

Contact Data

Coaxial

Type	Part Number	Description	Cable	Layout/Usage
Pin	249-0365-000	Plug, Straight		
Socket	249-0366-000	Receptacle, Straight	RG-7/U	
Pin	249-0399-000	Plug, Straight	RG-59/U	
Socket	249-0398-000	Receptacle, Straight	RG-62/U	
Pin	249-0409-000	Plug, 90° Short		15C2
Socket	249-0410-000	Receptacle, 90° Short	RG-58/U	B20C2
Pin	249-0228-000	Plug, 90° Long		23C2
Socket	249-0226-000	Receptacle, 90° Long		32C2
Pin	249-0229-000	Plug, 90° Short	RG-7/U	
Socket	249-0227-000	Receptacle, 90° Short		
Pin	249-1365-000	Plug, Solder		
Socket	249-1357-000	Receptacle, Solder	RG-195/U	
Pin	249-1333-000	Plug, Solder	RG-59/U	AN14
Socket	249-1332-000	Receptacle, Solder	RG-62/U	
Pin	249-1264-000	Plug, Crimp	RG-59/U	
Socket	249-1265-000	Receptacle, Crimp	RG-62/U	AJ14

Crimp

Contact Size	Type	Part Number	Wire Size	Max. Wire Insul O.D	Crimp Tool Part Number	Locator	Extraction Tool Part Number	Layout/Usage
20	Pin	030-9081-000	20-24	.084 (2.13)	M22520/1-01	M22520/1-02	CET 20-8	76,112, A44
	Socket	031-9134-001						
16-20	Pin	030-9123-000	20-24	.084 (2.13)	M22520/1-01	Blue	CET 16-9 CET 16-15	B28, 32C2, 40, A44, F54, 45, 76, 78
	Socket	031-9203-002						
16	Pin	030-9083-000	16-20	.110 (2.79)	M22520/1-01	Blue	CET 16-9 CET 16-15	45, 76, 78
	Socket	031-9206-003						
12	Pin	030-1909-000	12-16	.150 (3.81)	M22520/1-01	Yellow	CET 12-4	A44, F54
	Socket	031-1059-000						
30A (#10)	Pin	030-1757-000	10-12	.206 (5.23)			CET 10-1	45
40A (#8)	Socket	030-1758-000						
8	Pin	030-9175-000	8-10	.250 (6.35)		Solder Pot Type Only		32C2
	Socket	030-9176-000						
8	Pin	030-1908-000	8-10	.250 (6.35)	CBT-600B CCH-8-1 CCHP-8-6		CET 8-2	A44
	Socket	030-9201-003						

Thermocouple Contacts for DPDMA/DPXMA

Standard Size 20 Material	Pin Contact	Socket Contact
Alumel	030-1899-000	031-1048-000
Chromel	030-1900-000	031-1049-000
Contantan	030-1840-000	031-1020-000
Iron	030-1841-000	031-1022-000

For size 16 thermocouple contacts for DPDMA see DPX ARINC 404 section, page H-56.

Rack and Panel



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

www.ittcannon.com

Contact Variations

The contact variations shown are modifications of the basic arrangement. For variations not shown please consult factory.

Arr. No.	Basic Arr.	No. of Contacts (Wire Size)					Coax	Spl.	Notes/Modifications
		20	16	14	10	8			
V14	T14						14	Supplied less coaxial contacts (see pg.107 for avail.)	
20	32C2		18				2	#5, 7, 9, 12-17, 29, A1, A2 are open	
B20C2	B20C2		12	6			2	Basic arr. str. coax RG-7/U, P249-0365-000; S249-0366-000	
C20C2	B20C2		12	6			2	A1, A2-str. coax RG-59/U, RG-62/U, P249-0399-000, S249-0398-000	
G20	G20			10	2		8	Basic arr.	
B22C2	32C2		18				2	A1-90° Short coax RG-58/U, P249-0409-000, S249-0410-000; A2-Str. coax RG-58/U, P249-0257-000, S249-0258-000, #11-14, 16, 17, 26-29 open	
23C3	23C3		20				3	Basic arr. str. coax RG-7/U, P249-0365-000, S249-0366-000	
23HV1	23C3		20				2	#21, 23-#8 removable; #22-HV kit 7.5K VAC: #16 wire, 20 amps	
G23C3	23C3		20				3	#21-23-str. coax RG-59/U, RG-62/U, P249-0399-000, S249-0398-000	
B28	B28		28					Basic arr.	
30	32C2		28				2	A1, A2-open	
31	32C2		28				3	A1-open; A2-#8 removable	
B31C1	32C2		28				2	A1-open; A2-90° short coax, RG-58/U P249-0257-000, S249-0258-000	
32	32C2		28				4	A1, A2-#8 removable	
32C1	32C2		28				3	A1-str. coax RG-7/U, P249-0365-000, S249-0366-000 A2-#8 removable	
32C1HV1	32C2		28				2	A1-str. coax RG-7/U, P249-0365-000, S249-0366-000 A2-HV kit, 7.5K VAC, #16 wire, 10 amp	
32C2	32C2		28				2	Basic arr. A1, A2-str. coax RG-7/U, P249-0365-000, S249-0366-000	
A32	32C2		30				2	A1, A2-#16 removable	
E32C2	32C2		28				2	A1, A2-str. coax. RG-58/U, P249-0257-000, S249-0258-000	
T32C2	32C2		28				2	S/A E32C2 except RG-58/U insulated	
U32C2	32C2		28				2	A1, A2-str. coax RG-59/U, RG-62/U, P249-0399-000, S249-0398-000	
40	40		40					Basic arr.	
A44	A44	16	17		6		5	Basic arr.	
45	45		43		2			Basic arr.	
50	50		50					Basic arr.	
F54	F54		48	12				Basic arr.	
76	76	73	3					Basic arr.	
78	78		78					Basic arr.	
C78	78		78					Contacts accommodate 16-20 wire DPDMA only	
90	90		90					Basic arr.	
112	112	112						Basic arr.	
128	128	128						Basic arr.	

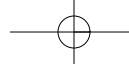


Rack and Panel

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

www.ittcannon.com





DPD/DPDMA

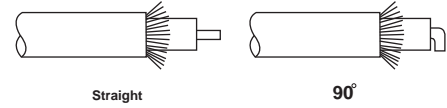
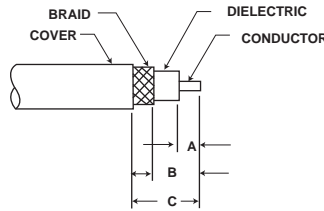
Stripping Instructions

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. Shells, bushings, endbells and junction shells (where applicable) must be slipped over wire bundles before soldering or crimping is started. The mechanical steps in wiring coaxials are described below.

R Coaxial (Straight and 90°)

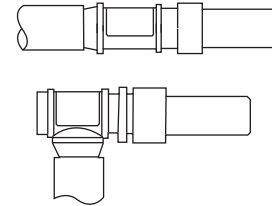
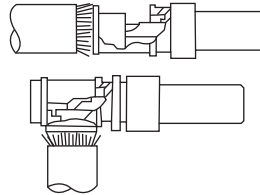
1. Cut cable even. Trim to dimensions shown on tabulation. Care should be taken not to injure the conductor or dielectric.

2. Comb braid, tin conductor and remove flux. If a 90° contact is used, bend conductor 90° after tinning.



3. Remove solder pot cover. Insert cable and solder conductor to contact. If a straight contact is used, the dielectric should but against contact solder pot.

4. Replace solder pot cover and solder braid to ferrule.



Rack and Panel

Coax Type	Cable Size	Trim		
		A	B	C
Straight R Coax	RG-7/U	.171 (4.34)	.421 (10.69)	.515 (13.08)
	RG-59/U	.171 (4.34)	.546 (13.87)	.671 (17.04)
	RG-62/U	.171 (4.34)	.543 (13.87)	.671 (17.04)
90° angle R Coax	RG-7/U	.218 (5.54)	.312 (7.92)	.437 (11.10)
	RG-58/U	.218 (5.54)	.531 (13.49)	.593 (15.06)
	RG-59/U	.218 (5.54)	.531 (13.49)	.593 (15.06)
	RG-62/U	.218 (5.54)	.531 (13.49)	.593 (15.06)

Engaging Devices

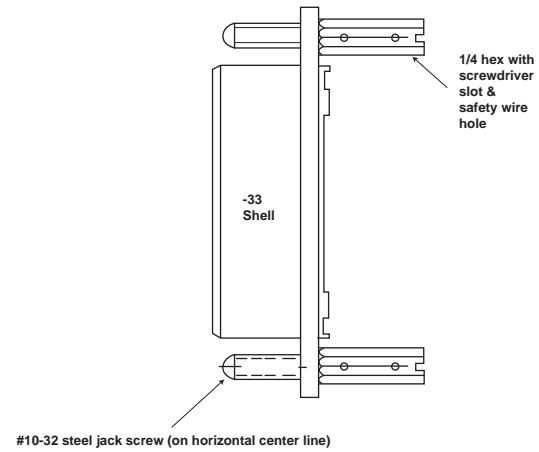
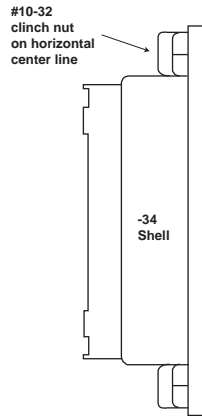
Single Gang - DPD/DPDMA

The DPD/DPDMA can be engaged by means of a No. 10-32 steel jack screw and clinch nut. This coupling device is designed to fasten connectors securely when they are used in other than standard rack/ panel applications. The jack screws and clinch nuts are mounted on the shell flanges at the factory. They may be called out on either -33 or -34 shells, although it is preferred to have jack screws on the -33 shell and the clinch nuts on the -34 shell. The device can be ordered on both DPD and DPDMA.

How to Order

DPD-**-34*-1* N DPD-**-33*-1* S
 N = Clinch Nut
 S = Jack Screw

The suffix "N" or "S" is placed immediately after the mounting hole variation; i.e., -1AN, -1AS, etc.



Two Gang - DPD2/DPD2MA

The DPD2 is engaged by means of a variety of screw mechanisms. Engaging devices are interchangeable (within the thread group) with male or female mounting on either 33 or 34 shells. The accompanying tabulation lists the available engaging devices, male opposite female, with which they mate.

How to Order

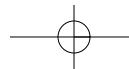
DPD2 -72C2 -34PCM
 Engaging Device

Part Number	MALE ENGAGING DEVICES		FEMALE ENGAGING DEVICES	
	Used On			
	DPD2 DPD2MA	F	CF	DF
M	•	•		
MA	•	•		
CM	•		•	
CMRA	•		•	
DM	•			•
DM-1	•			•
DM-2	•			•
DM-3	•			•
DM-7	•			•



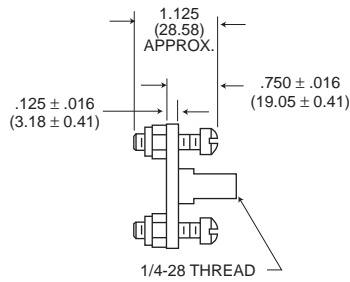
Dimensions shown in inches (mm)
 Specifications and dimensions subject to change

www.ittcannon.com

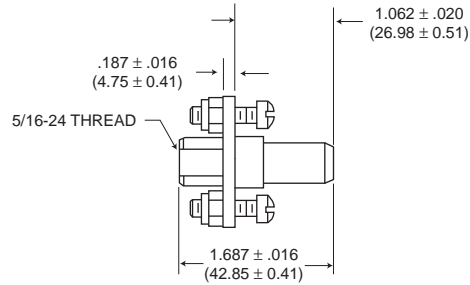


Engaging Devices

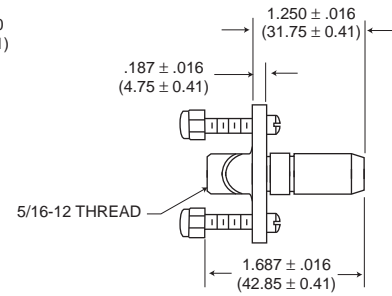
Female



P/N 013837-0010
F
1/4-28 UNF-2B Thread

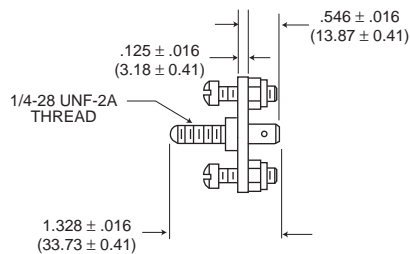


P/N 013837-0003
CF
5/16-24 UNF-2B Thread

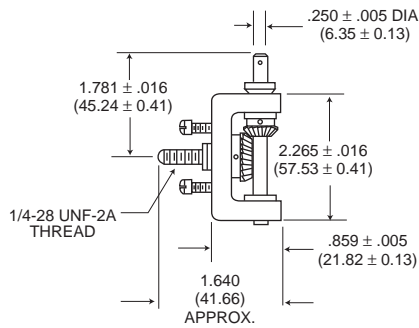


P/N 013837-0013
DF
5/16-12 Quad Lead Thread

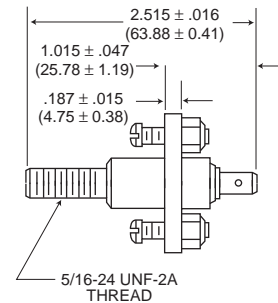
Male



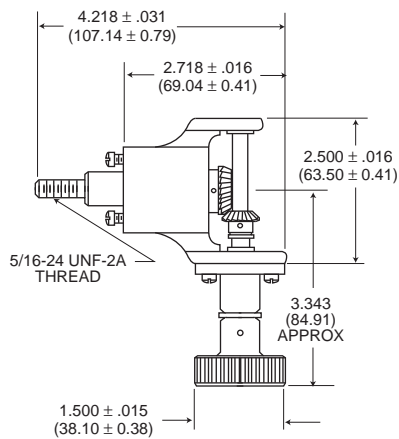
P/N 013837-0008
M
1/4-28 UNF-2A Thread



P/N 013837-0001
MA
1/4-28 UNF-2A Thread
NOT FOR USE
WITH POLARIZING POST



P/N 013837-0005
CM
5/16-24 UNF-2A Thread



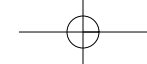
P/N 013837-0042
CMRA
5/16-24 UNF-2A Thread
(Ratchet Lock)

Contact Customer Service for availability on all engaging device configurations before ordering.

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

www.ittcannon.com

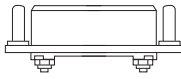




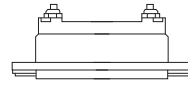
DPD/DPDMA

Polarization

DPD/DPDMA

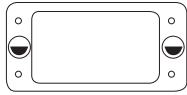


DPD 33 with
POLARIZING POSTS

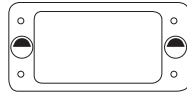


DPD 34 with
POLARIZING KEYWAYS

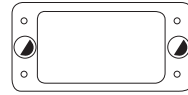
DPD connectors can be supplied with polarizing posts to provide six or more alternate positions. This feature prevents cross plugging where two identical connectors are mounted close together. Shells with polarizing posts can be ordered by adding the desired position to the part number; for example: DPD-12C4-34P-1A-POS. Y. Polarizing positions are shown below and are face view of the 33 (plug) shell.



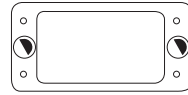
POSITION N



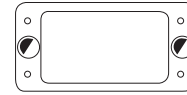
POSITION V



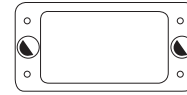
POSITION W



POSITION X



POSITION Y



POSITION Z

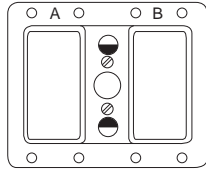
Shaded area indicates extended portion of polarizing post.

DPD2/DPD2MA

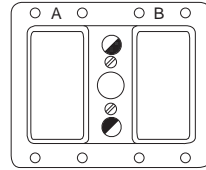
DPD2 series can be supplied with two polarizing posts to provide six or more alternate positions. This feature is designed to assist in preventing cross

plugging. At present shells are modified upon request only, by adding the desired position to the part number; e.g., DPD2-156-34PM-Pos. V. See

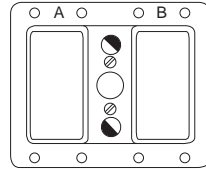
drawing below for available positions. Polarizing positions shown are face view of 33 shell.



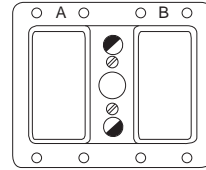
POSITION N



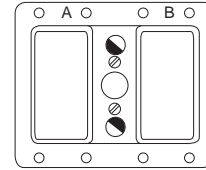
POSITION V



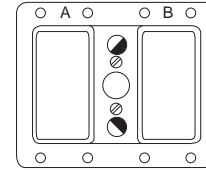
POSITION W



POSITION X



POSITION Y



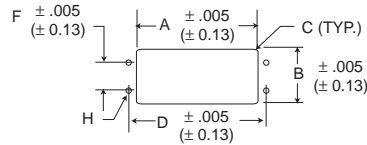
POSITION Z

Shaded area indicates extended portion of polarizing post.

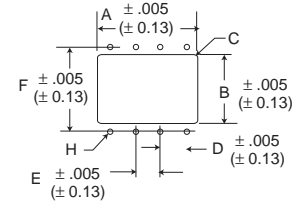
Rack and Panel

Panel Cutouts

DPD



DPD2

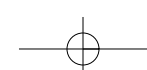


Type	Clearance Hole			Mounting Hole			H Dia.	Gap Between Flanges After Mating
	A Length Front/Rear Mounting	B Width Front/Rear Mounting	C Radius Max.	D	E	F		
DPD-34P	2.562 (65.07)	1.562 (39.67)	.181 (4.60)	2.875 (73.02)	-	1.000 (25.40)	.144 (3.66)	.140 (3.56)
DPD-33S	2.421 (61.49)	1.421 (36.09)	.125 (3.18)	2.875 (73.02)	-	1.000 (25.40)	.144 (3.66)	.140 (3.56)
DPD2-34-P	3.781 (96.04)	2.562 (65.07)	.187 (4.75)	1.000 (25.40)	1.250 (31.75)	2.875 (73.02)	.144 (3.66)	.140 (3.56)
DPD2-33S	3.671 (93.24)	2.421 (61.49)	.125 (3.18)	1.000 (25.40)	1.250 (31.75)	2.875 (73.02)	.144 (3.66)	.140 (3.56)



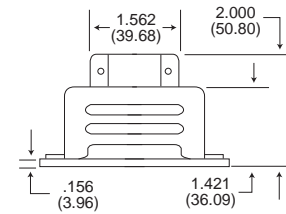
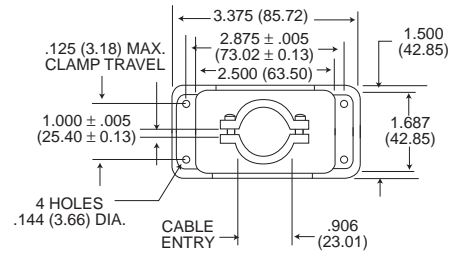
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

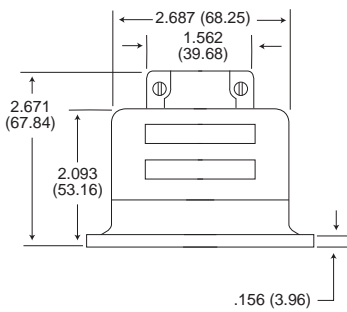
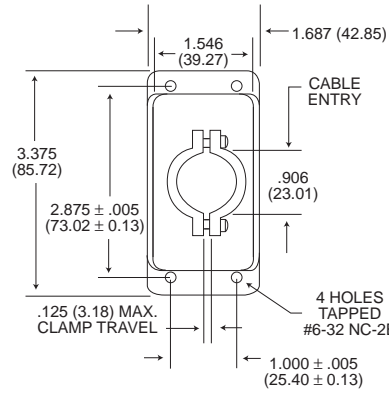


Accessories-DPD Junction Shell

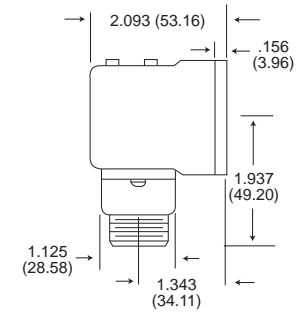
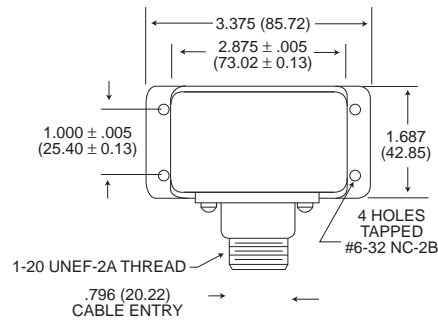
DPD-33
11612



DPD-34
12172



DPD 90°
19929



All tolerances ± .015 (0.38) unless otherwise noted.



Rack and Panel

Accessories-DPD Dust Cap

DPD/DPD2 025-0585-003 Conductive Dust Cap (black)



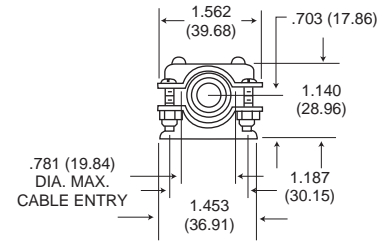
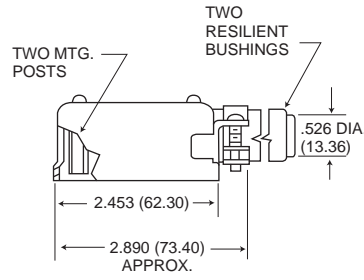
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

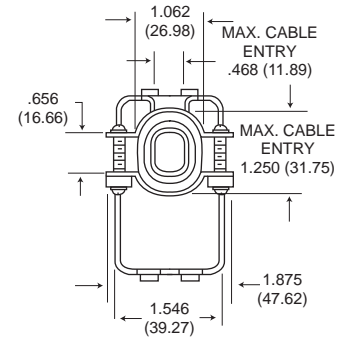
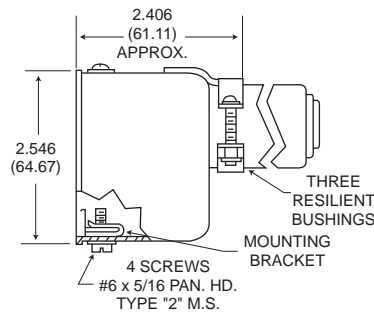
DPD/
DPDMA

Accessories-DPD2

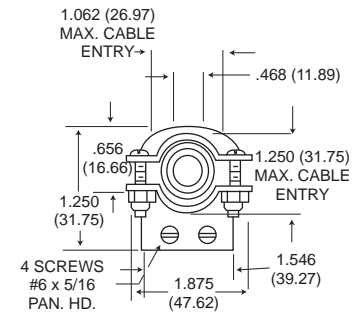
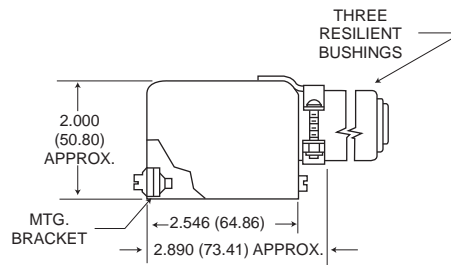
DPD2
19941-1



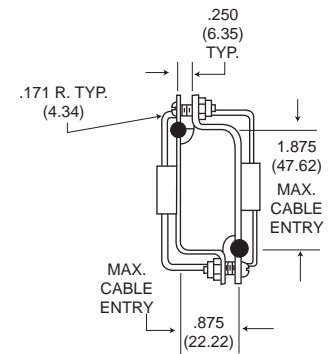
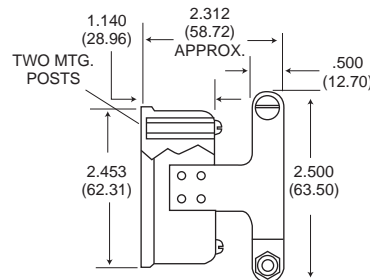
DPD2
19941-2



DPD2
19941-3



DPD2
19941-7



Rack and Panel



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

www.ittcannon.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [D-Sub Standard Connectors](#) category:

Click to view products by [ITT](#) manufacturer:

Other Similar products are found below :

[56F711-015](#) [012-9507-004](#) [LV242999-142T12](#) [015-0341-000](#) [015-0372-005](#) [015-0372-008](#) [015-8755-001](#) [020419-0104](#) [012-0467-000](#) [012-0515-000](#) [012-9507-034](#) [012-9507-114](#) [020745-0008](#) [609-25P](#) [M24308/2-23Z](#) [CT2-14S-2PCA34](#) [CT2-18-11PCAU](#) [CT2-36-15SC](#) [CT6-14S-2SC](#) [CT6E14SA7SC](#) [CT6E22-14PC](#) [CT6E22-14PS](#) [CT6E22-22PS](#) [M83513/01-FC](#) [M85049/48-3-2F](#) [6STD09PCM99B70X](#) [6STD09SCM99B30X](#) [6STD09SCT99S40X](#) [6STD15PCT99S40X](#) [6STD15SCM99B30X](#) [6STD15SCT99S40X](#) [6STF09PCM05B70X](#) [7-135760-9](#) [MC11E-10-6SN](#) [747552-3](#) [MD1-21PS](#) [MDM-15SCBRM7-F222](#) [MDM96517-699](#) [MDM96521-744](#) [MDVB1-21SL1](#) [MIK0-1-7SH003](#) [MIKQ6-7SH076](#) [MIKQ7-7PH077](#) [MIKQ7-7PH11](#) [MIKQ7-7PH32](#) [MIKQ9-7PH003](#) [MJSV-28SL61](#) [MKJ4A1F14-55S](#) [8-135760-3](#) [8STD09PCM99B30X](#)