ITT

Interconnect Solutions
Cannon, VEAM, BIW

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




Engineered for life

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 damge and are crimplable 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
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 - *

SERIES PREFIX
RoHS
CLASS
CONTACT ARRANGEMENT
SHELL TYPE
CONTACT TYPE
MOUNTING HOLE STYLE
MODIFIER

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

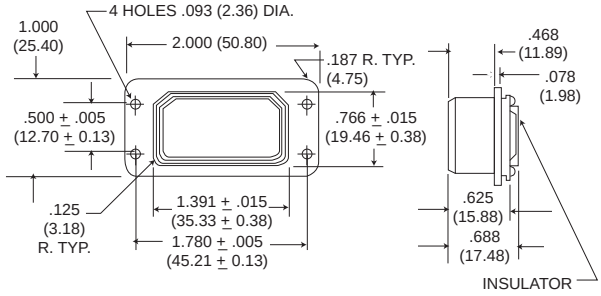
MODIFIER
Add FO to order connector less contacts. Consult factory for other modifications.

Arrangements with coax contacts, such as 24C2, may be ordered without coax contacts by substituting a "W" for teh "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.

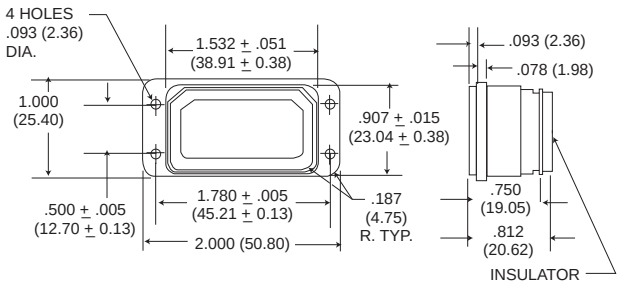
RoHS Finish
Zinc Plate per ASTM-B-633 with Clear Trivalent Chromate Coating

Solid Shell

DPA-33

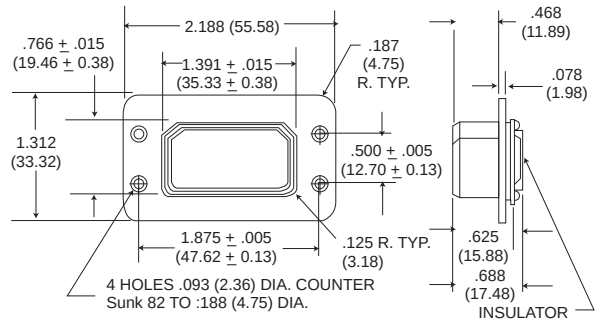


DPA-34

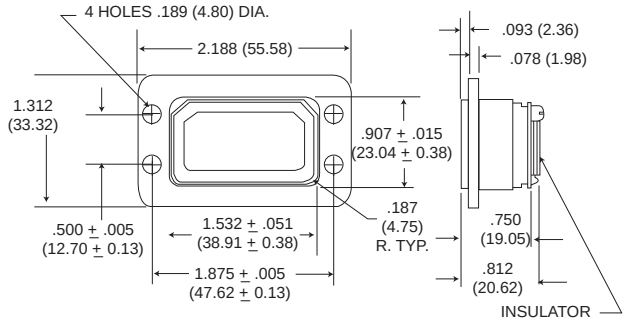


Large Flange Shell

DPAL-33

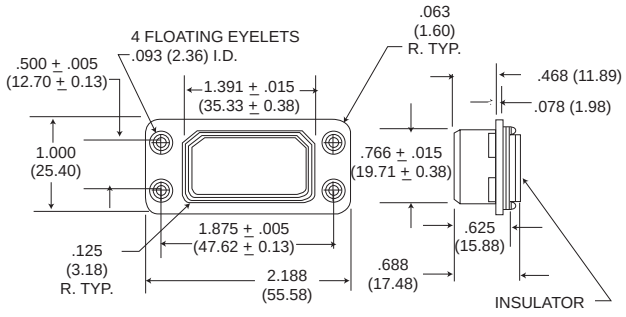


DPAL-34

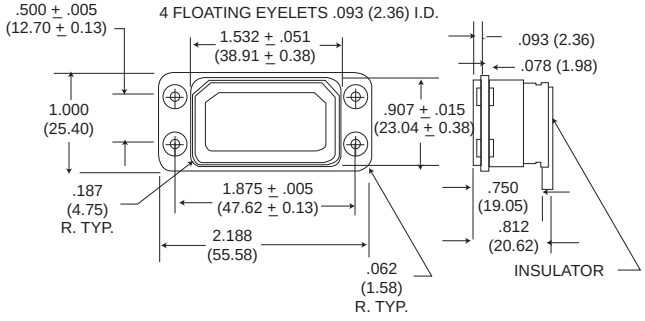


Float Mount Shell

DPAF-33



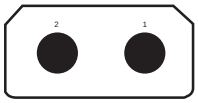
DPAF-34

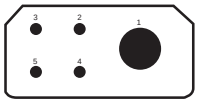


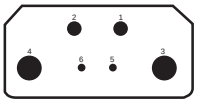
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Contact Arrangements

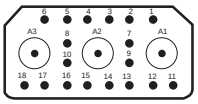
Face view of pin insert

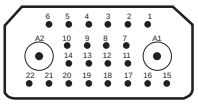


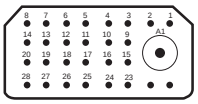


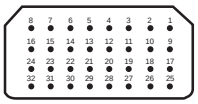


	2	5	6
No. of contacts & Wire Size	2 #4	1 #4, 4 #14	2 #8, 2 #12, 2 #20
Test Voltage AC (RMS)	2900	2500	2600 (5,6)









	21C3	24C2	29C1	32
No. of contacts & Wire Size	18 #20, 3 coax	22 #20, 2 coax	28 #20, 1 coax	32 #20
Test Voltage AC (RMS)	1500 (1-18) 1000 (A1, A2, A3)	1500 (1-22) 1000 (A1, A2)	1500 (1-28), 1000 (A1)	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 Arranements			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 Supplies*	-	-
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

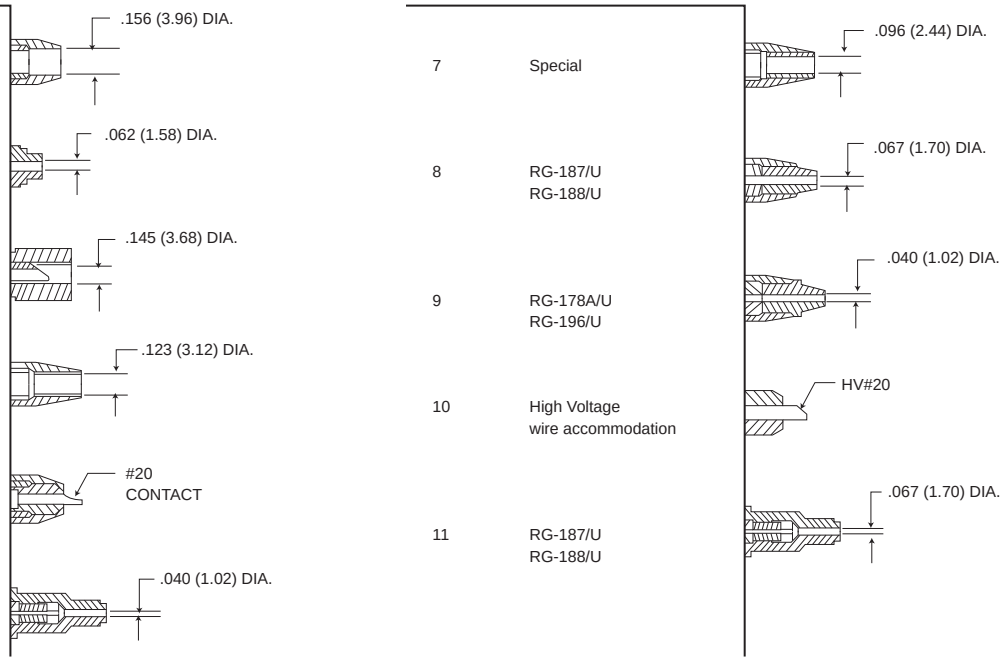
NOTE: DPA snap in coaxials and DPAMA crimp coaxials are NOT interchangeable but are intermateable.

Contact Data				Termination Tooling										
Contact Size	Wire Size Accom.	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 RG-55/U	Plug 249-1741-000	Jack 249-9008-000	Burndy MR8PV-2 Section 160					CET-C11					
	RG-58/U	249-9103-000	249-9104-000	None					CET-C11					

Contact Terminations

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

Code	Cable Accommodation
1	RG-59B/U RG-62A/U
2	RG-187/U RG-188/U
3	RG-58C/U
4	RG-58C/U
5	#20 captive contact
6	RG-178A/U RG-196/U
7	Special
8	RG-187/U RG-188/U
9	RG-178A/U RG-196/U
10	High Voltage wire accommodation
11	RG-187/U RG-188/U



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

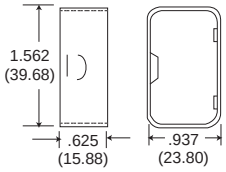
Conductive: DPA-60-1
025-0573-001 (Protects Against Static Electricity

DPA-59 FOR 33 SHELLS
025-0572-000

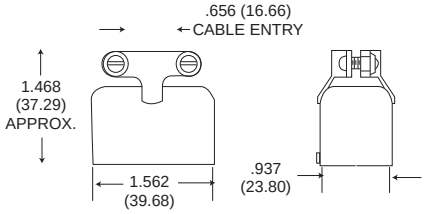
CONDUCTIVE (BLACK)
025-0573-001

DPA-60 FOR 34 SHELLS
025-0573-000

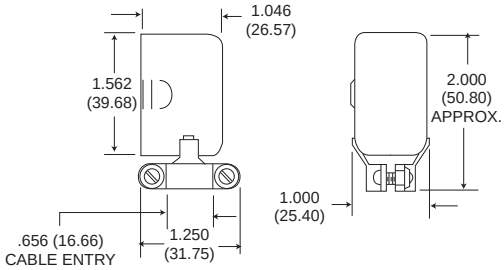
22054
Potting Shell



20746 Straight
Junction Shell



20746-1 90˚ Angle
Junction Shell



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

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

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 connect - tors with reversed insulators to maintain their equipment usage.

Standard Data

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

How to Order

DPJ	MB-	98	-34	P	-K		
DPG	M-	21	-33	S	-K	-2	

SERIES PREFIX
CLASS
CONTACT ARRANEMENT
SHELL TYPE
CONTACT TYPE
MOUNTING
MODIFICATION

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 vour 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 rentention
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

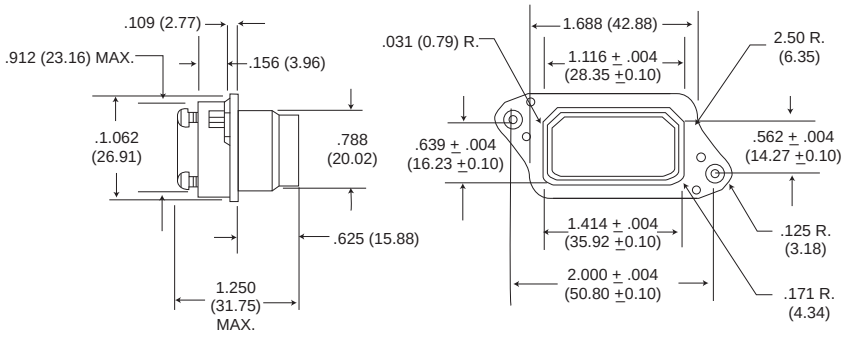
MOUNTING
33-K-With 6-32 clinch nuts (replaces 33-A)
33-B-Clearance holes for 6-32 screw
34-A-Floating eyelet with 6-32 tapped I.D.
34-B-Floating eylet with .140 I.D.

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

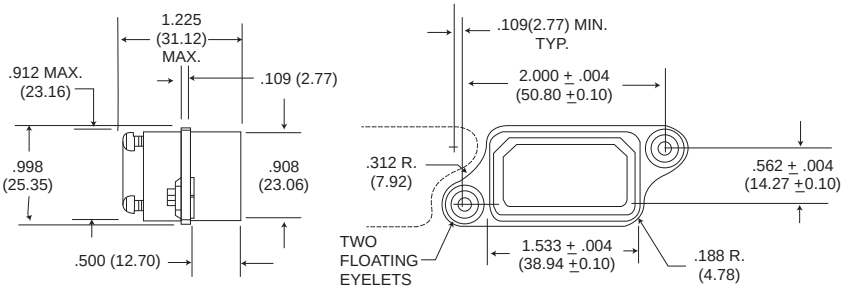
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Shell Dimensions - DPGM

33 SHELL

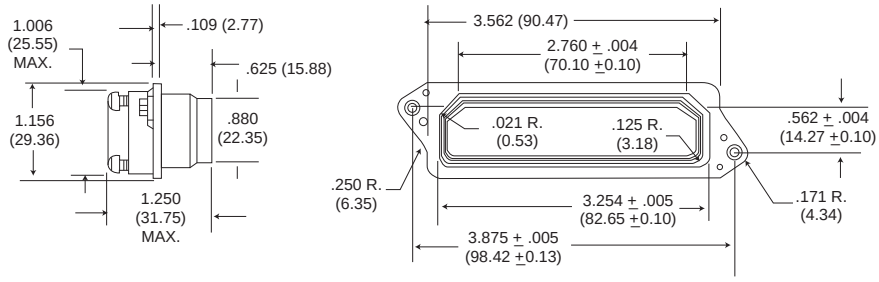


34 SHELL

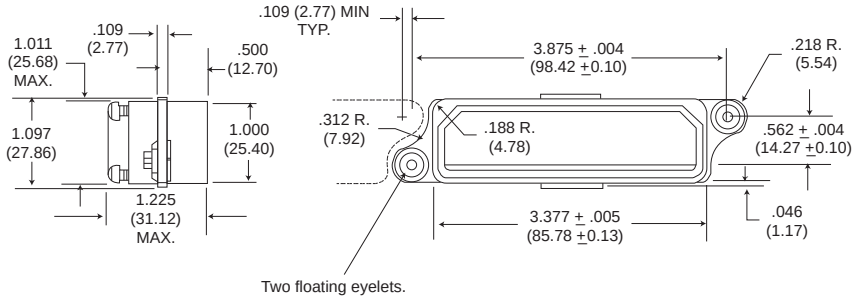


Shell Dimensions -DPJM/DPJMB

33 SHELL



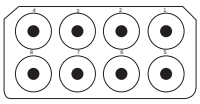
34 SHELL



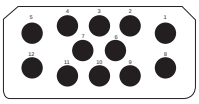
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Contact Arrangements

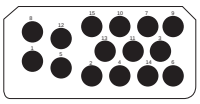
DPGM



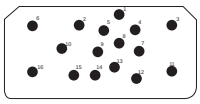
C8*
8 coax (1-8)
1000



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

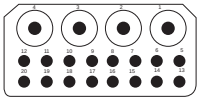


15*
15 #16 (1-15)
See note

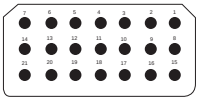


16*
5 #20 (3,6,10,11 & 16)
1500
9 #20 (1,4,5,7-9, 13-15)
1700
(2 #20 (2&12)
1500

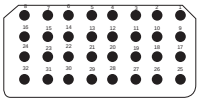
No. of Contacts & Wire Size
Test Voltage AC (RMS)



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



21*
21 #20 (1-21)
1500

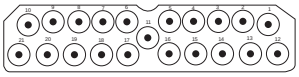


32*
32 #20 (1-32)
1500

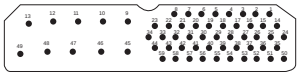
No. of Contacts & Wire Size
Test Voltage AC (RMS)

*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

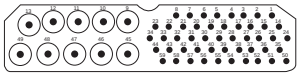


C21*
21 COAX (#1-21)
1000

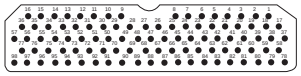


59
49 #20 (1-8,14-44 & 50-59)
1500
10 #12 (9-13 & 45-49)
1500

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 volstage. 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 futher details.

Current Carrying Capacity of Wires and Cables

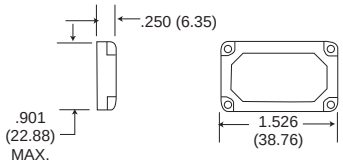
Wire Size	Amperage
#4	80
#8	46
#12	23
#16	13
#20	7.5

Junction Shells

DPGM

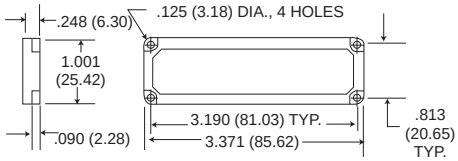
DPGM junction shells are essentail for proper installation of connector and are ordered separately.

DPJM/DPJMB



Part No. 248-1711-000
(038989-0000)

Part No. 248-1711-000
(038989-0000)

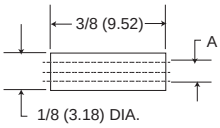


Part No. 248-1710-000
(038988-0000)

Part No. 248-1710-000
(038988-0000)

Wire Bushings

Small wires should be provided with rubber bushings before crimpin. Approximately 1/16 (1.59) of an inch of bushing is visible when installed into grommet. Grommets witll 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 Pin	Contact Part Number Socket	Crimp Tool Part No.	Locator	Locator Color	Extraction Tool No.
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 Pin	Contact Part Number Socket	Crimp Tool Part No.	Locator	Locator Color	Extraction Tool No.
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 Pin	Contact Part Number Socket	Crimp Tool Part No.	Insertion Tool No.	Extraction Tool No.
		Plug	Recept			
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

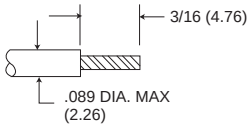
Dimensions shown in inches (mm)
Specifications and dimensions subject to change

Assembly Procedures

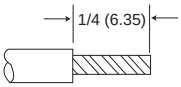
Wiring and Crimping Contacts

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

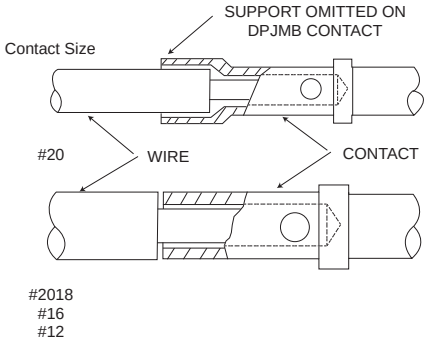
#20 Contact



#2018, #16 & #12 Contact



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 most 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

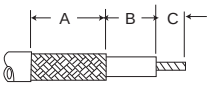
If it is necessary at any time to remove contacts, this may be accomplished with an impact extraction tool. Simply place the correct tool on the engaging end of the contact and push. A reversible tip is provided for pins and sockets.

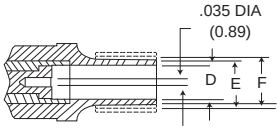
Contact	Tool Description	Assembly Number
#20	CET - 20A	038889-0100
#16	CET - 16	038888-0000
#12	CET - 12	038890-0000
Coaxial 50-75,95 & 150 ohm	CET - C1	038869-0000

Assembly Procedures

Coaxial Contact Assembly (DPGM/DPJM)

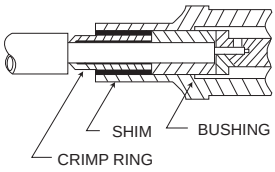
Cable Stripping



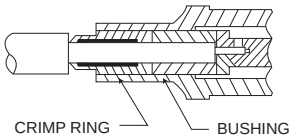


	Cable Trim Dimensions			Cable Entry Dimensions		
	A	B	C	D min. dia.	E max. dia.	F min. dia.
150 ohm	3/16 (4.76)	1/16 (1.59)	5/32 (3.97)	.154 (3.91)	.183 (4.65)	.202 (5.13)
95 ohm	3/16 (4.76)	1/8 (3.18)	5/64 (1.98)	.106 (2.69)	.139 (3.53)	.153 (3.89)
75 ohm	3/16 (4.76)	1/8 (3.18)	5/64 (1.98)	.122 (3.10)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

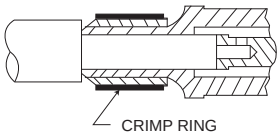
50 Ohm Contact (RG-196U)
(assembly steps 1,
2, 3, 4, 5 & 8)



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



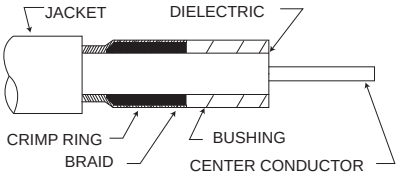
95 Ohm Contact (RG-195U)
(assembly steps 1,
3, 6, 7 & 8)



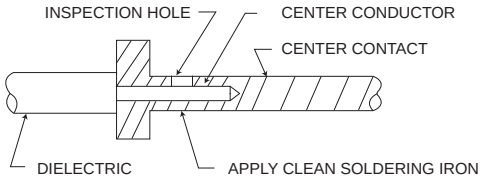
Assembly Steps

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)

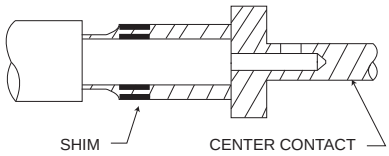
2. Assemble crimp ring under braid and add bushing to cable. (50 & 75 ohm)



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)

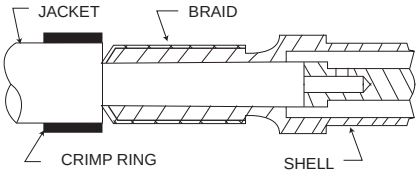


4. Wrap shim around braid. (50 ohm)



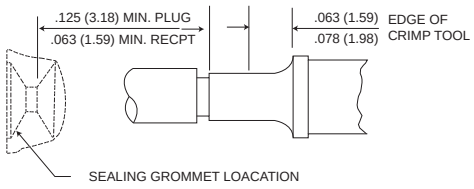
5. Feed cable and assembled parts into coaxial shell. Care is required if braid is to fit smoothly inside the shell. (50 & 75 ohm)

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

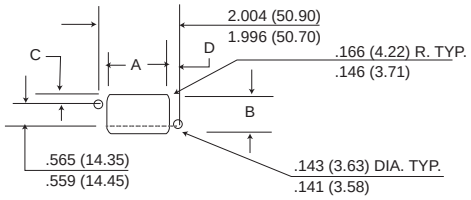
Junction Shell, Assembly of

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

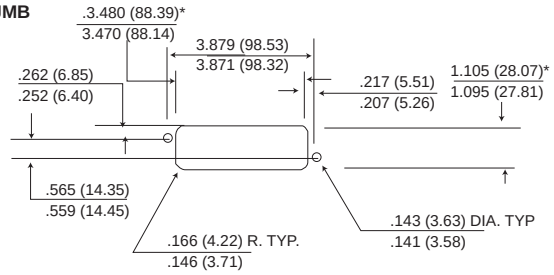
Panel Cutouts

33 and 34 Shell Styles

DPGM



DPJM
DPJMB



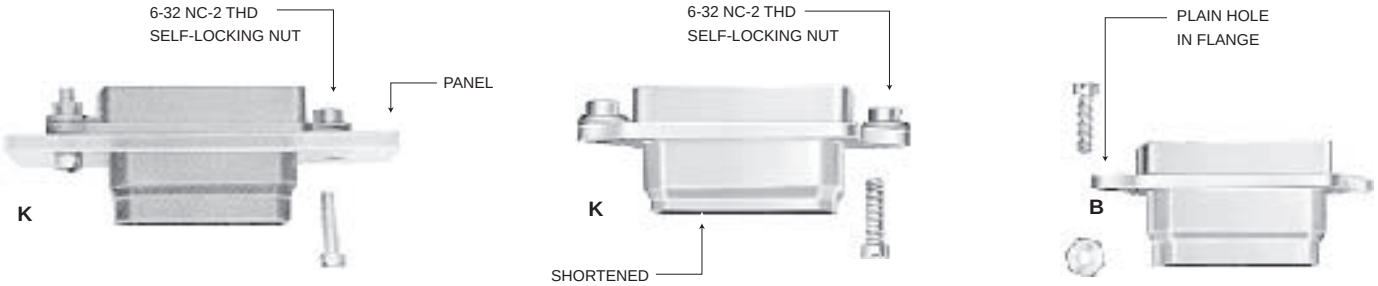
*These dimensions allow for float mounting.

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

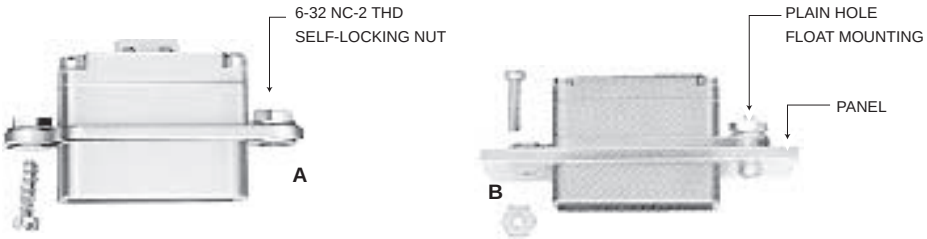
PANEL THICKNESS: Maximum sum of both panel thicknesses is 7/16 of an inch when 33 plug and 34 receptacle are back mounted. Shell style 33 modifications A and -2 can be back mounted ONLY. Shell style 33 modifications B and shell style 34 modifications B and H may be front or back mounted Consult factory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

Mounting Variations

33 Shell



34 Shell



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

Cannon's DPD Rack and Panel connectors are distinguished from other connector lines by their rectanguiar 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/0 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.

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 accompfished 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
Contacts	Material	Copper alloy	Copper alloy	QQ-C-533
	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 Humidy	69% to 73%
Barometric Pressure	29.70 (754.38) to 29.75 (755.65)

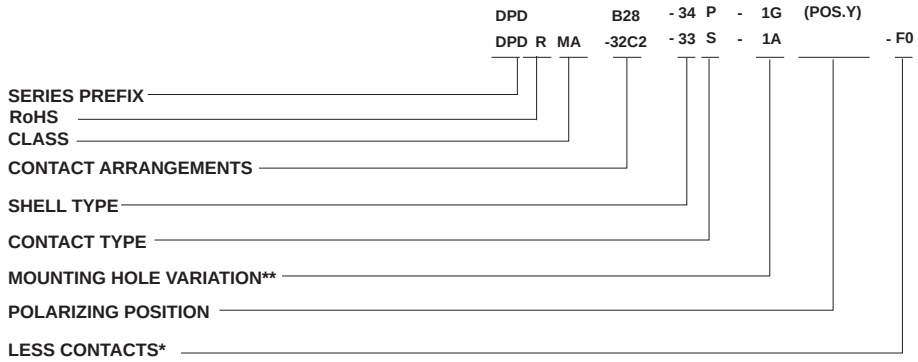
Current Carrying Capacity of Wire and Cables

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

How to Order



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)

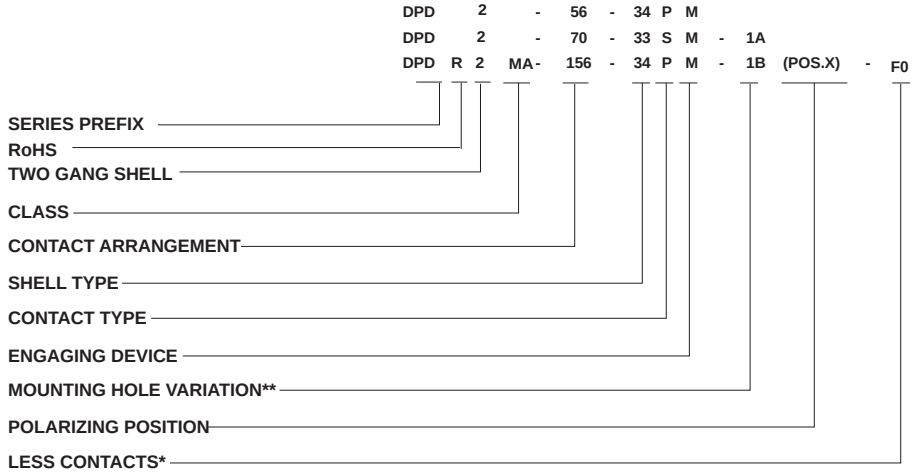
SHELL TYPE
33 for plug. 34 for receptacle

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

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



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

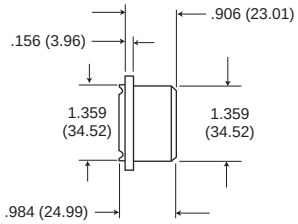
MOUNTING HOLE VARIATION**
1A - .144 (3.66) dia., for #6 cap screw
1B - .144 (3.66) dia., 100˚ countersunk for #6 flathead screw
1G - .152 (3.86) dia., 82˚C conutersunk for #6 flathead screw

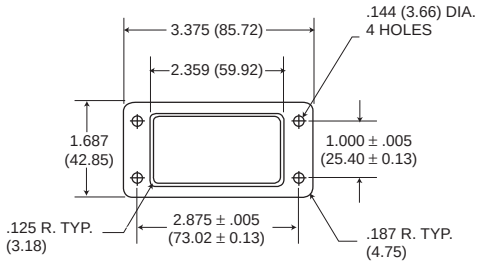
POLARIZING POSTION
N,V,W,X,Y,Z (See page 116)

*DPDMA/DPD2MA only
**Omit code for standard .144 (3.66) dia. mounting hole 82˚ countersunk for #6 flathead screw.

Single Gang

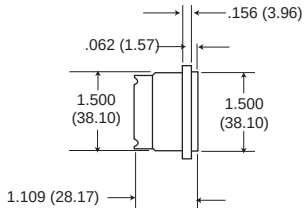
33 Plug

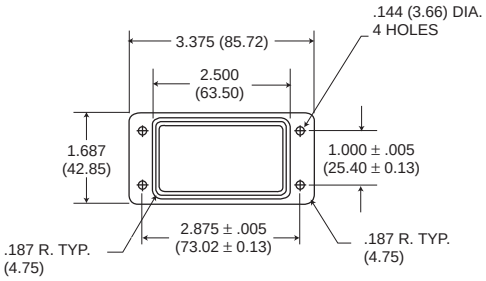




For mounting hole variations, see page 108

33 Receptacle

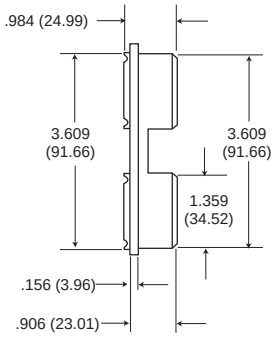


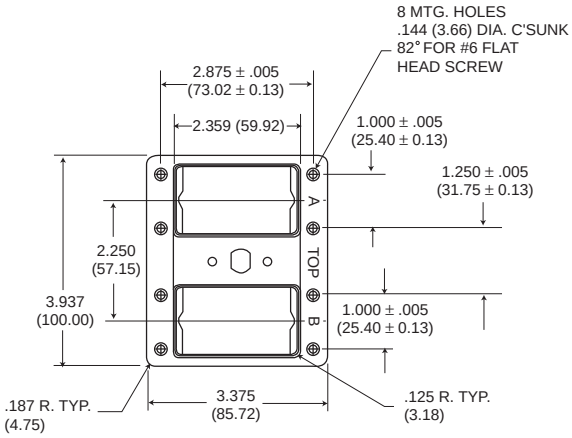


For mounting hole variations, see page 108

Two Gang

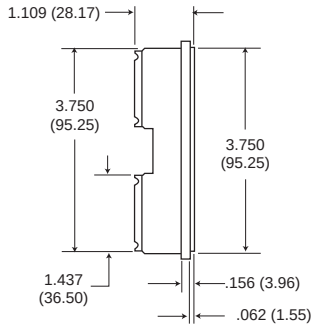
33 Plug

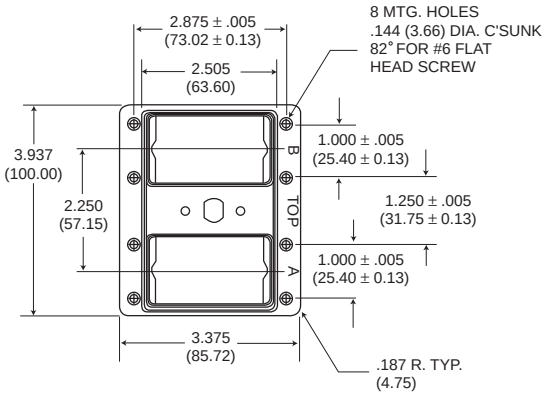




For headscrew variations, see page 115

34 Recptacle





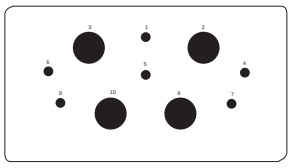
For headscrew variations, see page 115

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

Contact Arrangements - DPD Solder

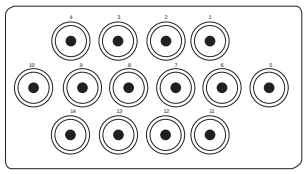
Face view of pin insert
Illustrations are not actual size

See page 107 for test voltage



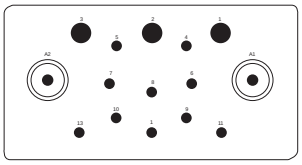
MOLDED **N10**

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



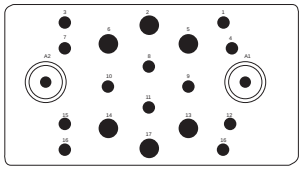
MOLDED **AJ14** for crimp **AN14** for solder

TOTAL CONTACTS:14	CLEARANCE
14 min. coax. (#1-14)	1/16 (1.59)



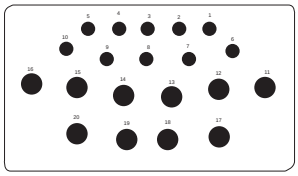
MOLDED **15C2**

TOTAL CONTACTS:15	CLEARANCE
2-#14 (#4,5)	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



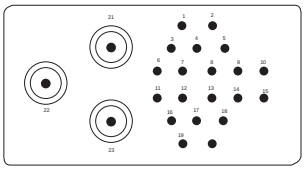
MOLDED **B20C2**

TOTAL CONTACTS:20	CLEARANCE
8-#16 (#1,3,4,7,12 15,16,18)	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



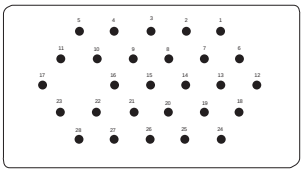
MOLDED **G20**

TOTAL CONTACTS:20	CLEARANCE
3-#14(#7,9)	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)



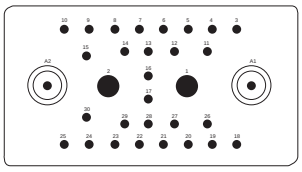
MOLDED **23C3**

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



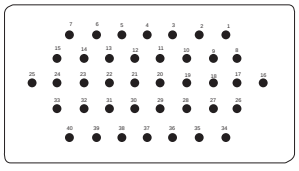
MOLDED **B28**

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



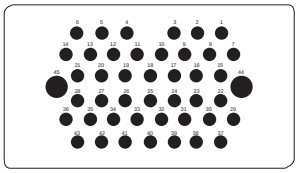
MOLDED **32C2**

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



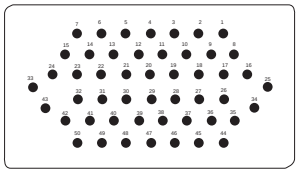
FABRICATED **40**

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



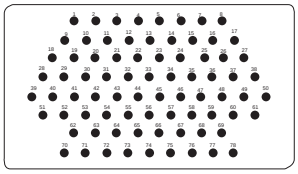
MOLDED **45**

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



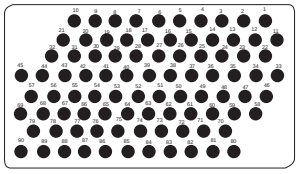
MOLDED **50**

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



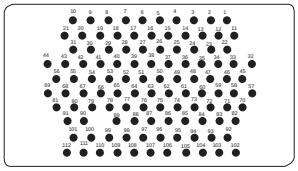
MOLDED **78**

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



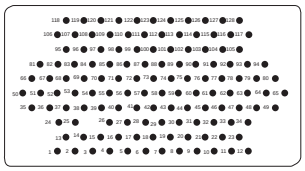
MOLDED **90**

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



FABRICATED **112**

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

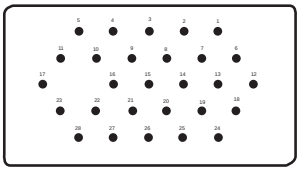


FABRICATED **128**

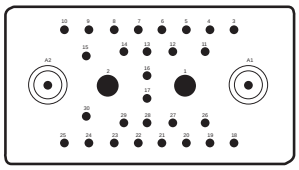
TOTAL CONTACTS:128	CLEARA NCE
128-#20(#1-128)	3/64 (1.19)

Contact Arrangements - DPDMA Crimp

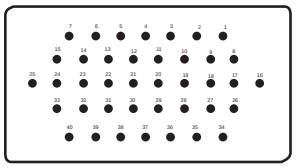
Face view of pin insert
Illustrations are not actual size



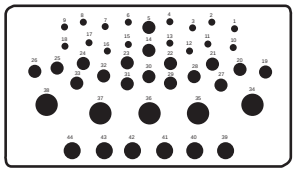
MOLDED B28
TOTAL
CONTACTS:28 CLEARANCE
28-#16(#1-28) 7/64 (2.78)



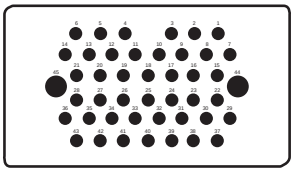
MOLDED 32C2*
TOTAL
CONTACTS:32 CLEARANCE
28-#16(#3-30) 3/64 (1.19)
2-#8(#1,2) (.156 Dia.) 3/64 (1.19)
2-coax. (A1, A2) grounded



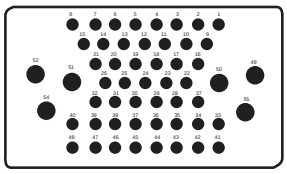
MOLDED 40
TOTAL
CONTACTS:40 CLEARANCE
40-#16(#1-40) 1/16 (1.59)



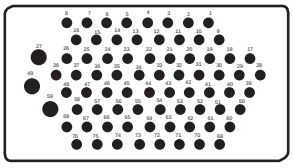
MOLDED A44
TOTAL
CONTACTS:44 CLEARANCE
16-#20(1-4, 5-13, 15-18) 3/64 (1.19)
17-#16(5,14,19-33) 3/64 (1.19)
6-#12(39-44) 3/64 (1.19)
5-#8(34-38)(.142 Dia.) 3/64 (1.19)



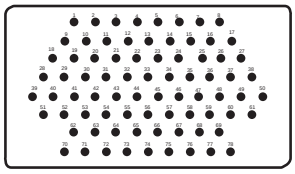
MOLDED 45
TOTAL
CONTACTS:45 CLEARANCE
43-#16(#1-43) 3/64 (1.19)
2-#10(#44, 45) 3/64 (1.19)



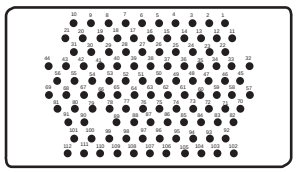
MOLDED F54
TOTAL
CONTACTS:54 CLEARANCE
48-#16(#1-48) 1/32 (0.79)
6-#12(49-54) 1/16 (1.59)



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)

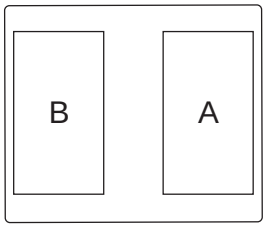


FABRICATED 112
TOTAL
CONTACTS:112 CLEARANCE
112-#20(#1-112) 3/64 (1.19)

*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 asemblies 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.



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

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 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

Contact Data

Coaxial

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

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

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.

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) 20	16	14	10	8	Coax	Spl.	Notes/Modifications
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	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		1	#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	1		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	1		A1-str. coax RG-7/U, P249-0365-000, S249-0366-000 A2-#8 removable
32C1HV1	32C2		28			2	1	1	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	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	2		A1, A2-str. coax. RG-58/U, P249-0257-000, S249-0258-000
T32C2	32C2		28			2	2		S/A E32C2 except RG-58/U insulated
U32C2	32C2		28			2	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.

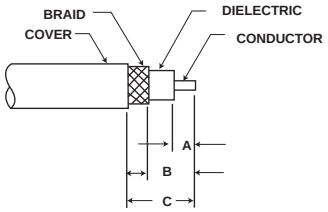
Stripping Instructions

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 Jwhere applicable) must be slipped over wire bundles before soldering or crimping is started. The mechanical steps in wiring coaxials are described below.

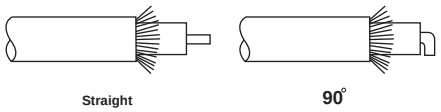
Coax Type	Cable Size	Trim A	Trim B	Trim C
Straight R Coax	RG-7/U	.171 (4.34)	.421 (10.69)	.515 (13.08)
	RG-59/U	.171 (4.34)	.546 (13.87)	.671 (17.04)
	RG-62/U	.171 (4.34)	.543 (13.87)	.671 (17.04)
90° angle R Coax	RG-7/U	.218 (5.54)	.312 (7.92)	.437 (11.10)
	RG-58/U	.218 (5.54)	.531 (13.49)	.593 (15.06)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

R Coaxial (Straight and 90°)

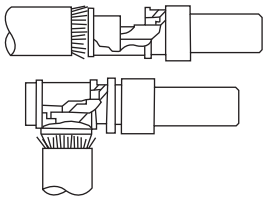
1. Cut cable even. Trim to dimensions shown on tabulation. Care should be taken not to injure the conductor or dielectric.



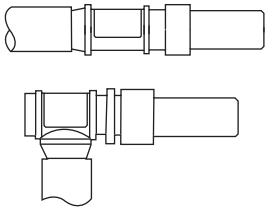
2. Comb braid, tin conductor and remove flux. If a 90° contact is used, bend conductor 90° after tinning.



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.



Engaging Devices

Single Gang - DPD/DPDMA

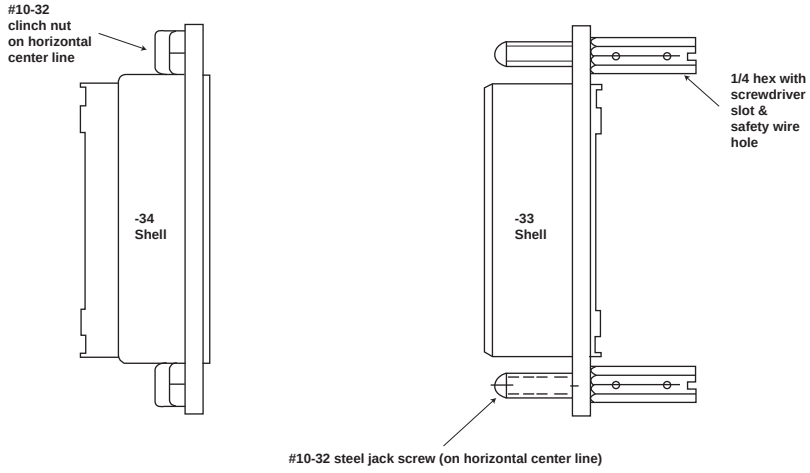
The DPD/DPDMA can be engaged by means of a No. 10-32 steel jack screw and clinch nut. This coupling device is designed to fasten connectors securely when they are used in other than standard rack/ panel applications. The jack screws and clinch nuts are mounted on the shell flanges at the factory. They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

DPD--33*-1* S** — **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

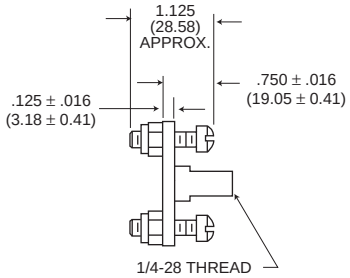
DPD2 -72C2 -34PCM

Engaging Device

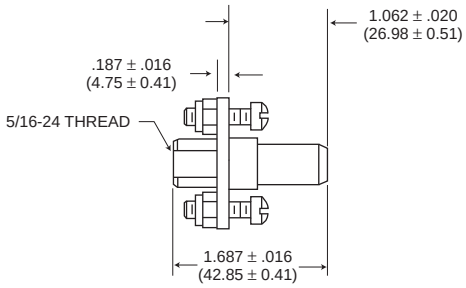
MALE ENGAGING DEVICES		FEMALE ENGAGING DEVICES		
Part Number	Used On DPD2 DPD2MA	F	CF	DF
M	•	•		
MA	•	•		
CM	•		•	
CMRA	•		•	
DM	•			•
DM-1	•			•
DM-2	•			•
DM-3	•			•
DM-7	•			•

Engaging Devices

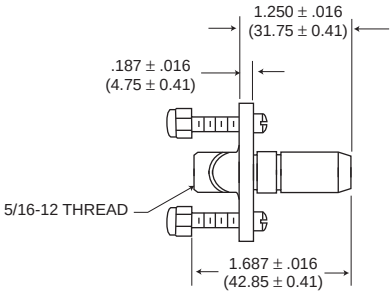
Female



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

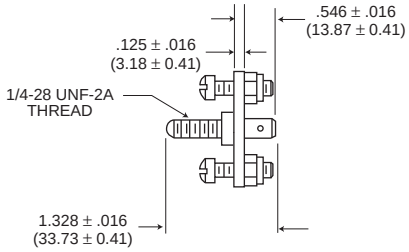


P/N 013837-0003
CF
5/16-24 UNF-2B Thread

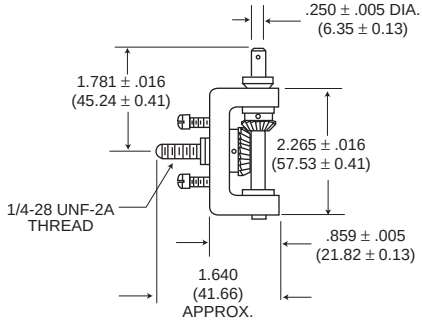


P/N 013837-0013
DF
5/16-12 Quad Lead Thread

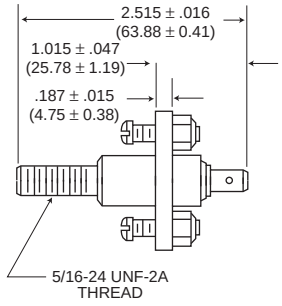
Male



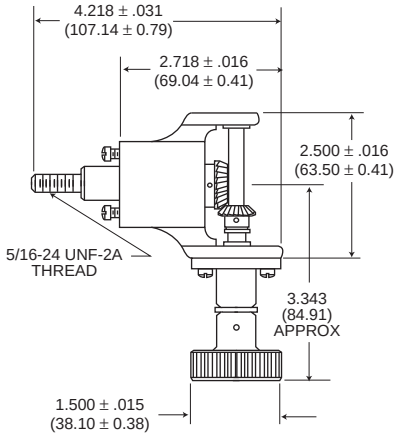
P/N 013837-0008
M
1/4-28 UNF-2A Thread



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



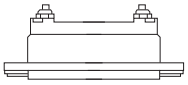
P/N 013837-0042
CMRA
5/16-24 UNF-2A Thread
(Ratchet Lock)

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

Polarization

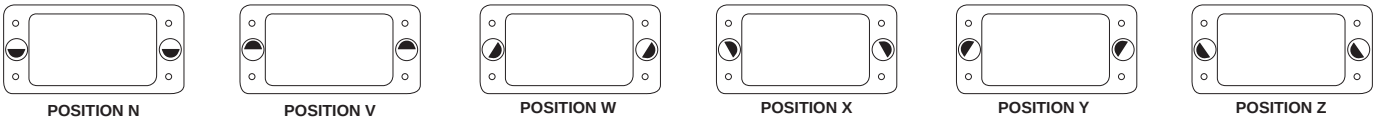
DPD/DPDMA

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 postition 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.

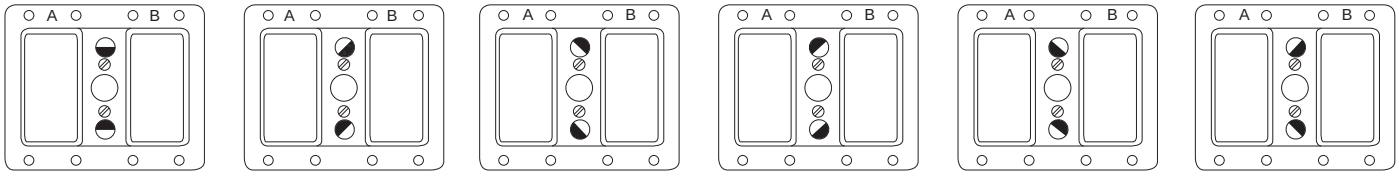


POSITION N | POSITION V | POSITION W | POSITION X | POSITION Y | POSITION Z

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.

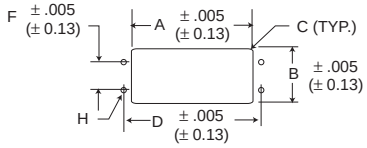


POSITION N | POSITION V | POSITION W | POSITION X | POSITION Y | POSITION Z

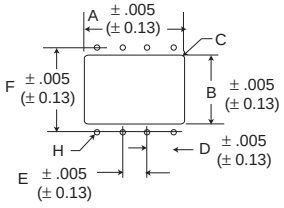
Shaded area indicates extended portion of polarizing post.

Panel Cutouts

DPD



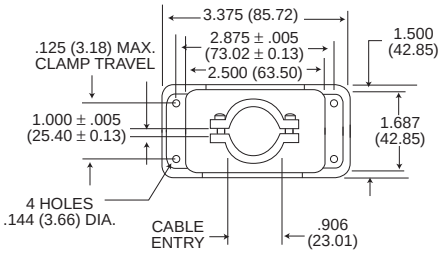
DPD2

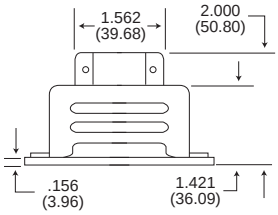


Type	Clearance Hole A Length Front/Rear Mounting	Clearance Hole B Width Front/Rear Mounting	Clearance Hole C Radius Max.	Mounting Hole D	Mounting Hole E	Mounting Hole F	H Dia.	Gap Between Flanges After Mating
DPD-34P	2.562 (65.07)	1.562 (39.67)	.181 (4.60)	2.875 (73.02)	-	1.000 (25.40)	.144 (3.66)	.140 (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)

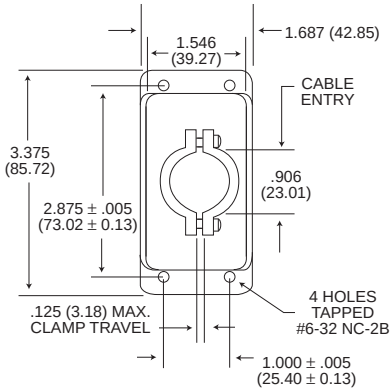
Accessories-DPD Junction Shell

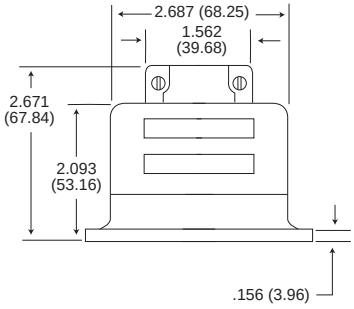
DPD-33
11612



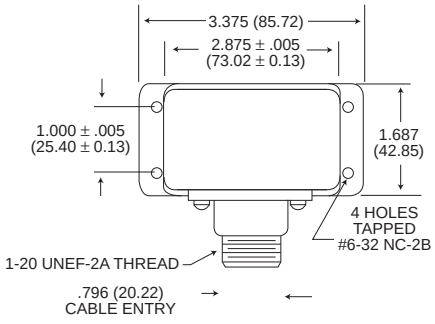


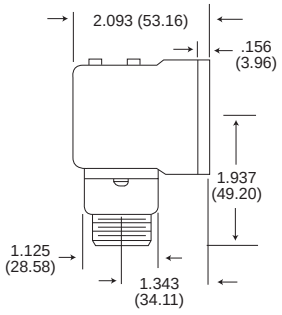
DPD-34
12172





DPD 90˚
19929





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

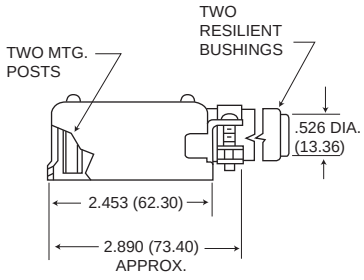
Accessories-DPD Dust Cap

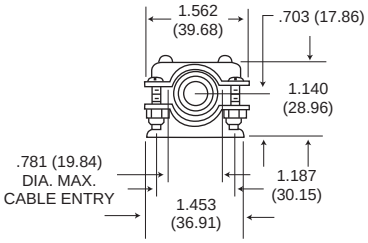
DPD/DPD2 025-0585-003 Conductive Dust Cap (black)

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

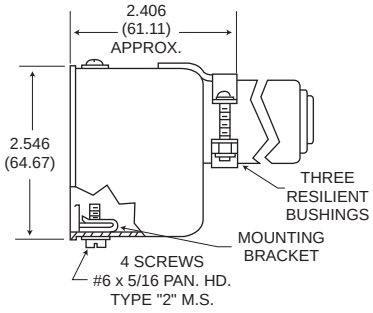
Accessories-DPD2

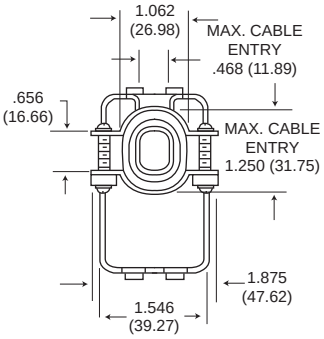
DPD2
19941-1



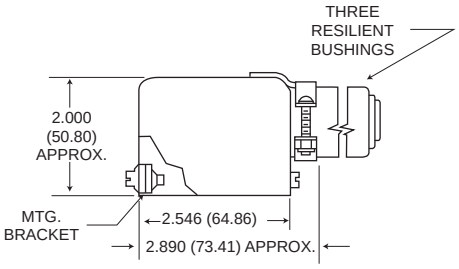


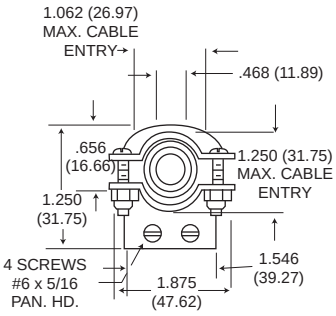
DPD2
19941-2



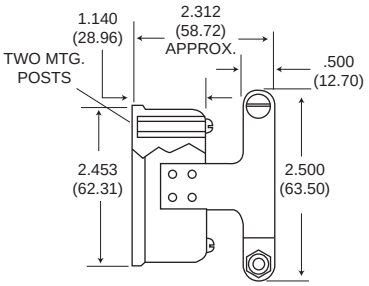


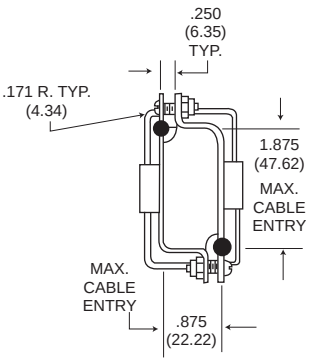
DPD2
19941-3





DPD2
19941-7





Mouser Electronics

Authorized Distributor

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ITT Cannon:

DPDMA-112-33P-1B DPAF-2-34P DPJM-59C10-34S-B DPD-78-34P-1A DPD-32-34P-1A DPDMA-45-33S-1B DPDMA-78G-33S-1A DPD-78-34P-1B DPAMA-32-34P DPD-32C2-33S-1L DPAMA-32-33S-F0 DPDMA-78-34P-1A-1 DPD-32-34P-1B DPD-32C2-33S-1B DPAFMA-32-34S DPDMA-78G-34P-1C-F0 DPA-32-33S-A DPAF-32-34P DPDMA-112-34P-1G DPA-6-34P DPA-29C1-34P DPDMA-78-33P-1G DPJM-59C10-34S-A DPDMA-112-33S-1B DPD22264 DPA-32-34P DPD-N10-33S-1A DPD-78-33S-1B DPDMA-112-33S-1G DPA-29W1-33S-A DPAMA-32-33S DPD-45-34P-1A DPD-78-33S-1A DPD-40-34P-1G DPD-G20-33S-1B DPD2MA-156-34P DPDMA-78-33S-1G DPDMA-B28-33S-1L DPD-B28-34P-1B DPD-32-33S-1B DPDMA-78-34P DPAF-2-33S DPA-24W2-33S-A DPD-G20-34P-1G DPJM-59C10-34S-B-A101 DPDMA-112-33S-1G-FO DPD-G20-34P-1B DPDMA-B28-34P-1B DPD-N10-34P-1G DPD-B18-33S-1B DPDMA-32W2-33S-1B DPD-90-33S-2G DPDMA-78-33S-1G-F0 DPDMA-112-34P-1A DPDMA41471-26 DPA22000-548 DPA-32-33S DPDMA-78-33S-1L DPD-N10-34P-1A-A176 DPDMA-78-34P-1G DPD-G20-33S-1A DPA-32-34P-A DPDMA-45-33S-1L DPDMA-78G-34P-1C DPDMA-112-34S-1B DPD-45-34P-1B DPD2MA-152-33S-2 DPJM-59C10-34S-A-4 DPA20746 DPGM-15-34S-B-KJ/SO-1 DPDMA-78-34P-1A DPDMA-76-33S-1B DPD-50-33S-1A DPDMA-78-33S-1A