Amphenol



MULTIPIN CONNECTORS

Amphenol has an extensive range of circular and rectangular multi-pin connectors ideally suited to the entertainment industry. Featuring rugged housings and precision made contacts these connectors have proven themselves in the most demanding of applications. The extensive arrangement of different connector sizes and contact numbers ensure we can offer a solution to your multi-pin wiring applications.

Applications

- · Audio Cables and Snakes
- Lighting control
- Concert Touring Systems
- Outside Broadcast Systems

Features / Options - MP-41 Series

- 13 to 150 pins
- Gold plated "combo" contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland
- · 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring

Features / Options - MP-62 Series

- 39 or 61 pins
- Gold plated solder contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland / optional NPT thread

Features / Options - C146 Series Rectangular

- 3 to 244 pins
- · Silver contact plating
- · Zinc diecast aluminium housings
- · Positive latch locking

Request catalogue CAT-AMPHENOL359

Ordering Codes

We have listed the more common ordering codes in each section. For further options please contact us.

Simple steps to guide you in using this catalogue

- Identify the product group listed in Contents on Page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use pins column to determine number of contacts.
- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.



MP-41 SERIES

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Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 150 pins with gold plated "combo"* contacts supplied with each connector as standard.

- 13 to 150 pins (4 to 48 channel)
- Gold plated "combo"* contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- · Black finish
- · Positive bayonet locking
- PG cable glands
- IP67 rated

Crimp Tooling: Page 81 Options: NPT threaded backshells. Specifications: Page 82 Part Number Breakdown: Page 81

PRODUCT - FIGURE	Dimensions in mm (inches)	DD ALAMAIO				PART NUMBER
FRODUCT - FIGURE	DRAWING	А	В	PG	PINS	FART NOIVIDER
	Straight cable plug with socket contacts, Black finish, supplied complete with gold	40.5 (1.60)	160 (6.30)	11	13	MP-4106-13S
A	plated solder / crimp "combo" * contacts.	44	171		10	1100 100
CONTRACT OF THE PARTY OF THE PA		(1.73)	(6.73)	13.5	19	MP-4106-19S
	В———В	46.6	193			
		(1.83)	(7.60)	16	25	MP-4106-25S
		54.3	210			
1.1.00	PG -/ 13, 19, 25, 37 and 54 contact type	(2.14)	(8.26)	21	37	MP-4106-37S
	B	60.1	210			
		(2.36)	(8.26)	21	54	MP-4106-54S
		73.3	137			
	PG	(2.88)	(5.40)	29	85	MP-4106-85S
	85, 150 and 200 contact type	73.3	145			
		(2.88)	(5.70)	36	150	MP-4106-150S
	Calda a constitue or a calda da calda distribuido	37.8	160			
	Cable connecting receptacle with pin contacts, black finish, supplied complete	(1.49)	(6.30)	11	13	MP-4101-13P
	with gold plated solder / crimp "combo"* contacts.	41.1	171			
(1)	Contacts.	(1.62)	(6.73)	13.5	19	MP-4101-19P
	B	41.5	193			
		(1.63)	(7.60)	16	25	MP-4101-25P
		51	210			
	PG /	(2.00)	(8.26)	21	37	MP-4101-37P
	B = 1	57.1	210			
		(2.25)	(8.26)	21	54	MP-4101-54P
5.6.0		70	137			
111/	<u> </u>	(2.75)	(5.40)	29	85	MP-4101-85P
	85, 150 and 200 contact type	70	145			
		(2.75)	(5.70)	36	150	MP-4101-150P

Note: NPT threaded backshells available on request. Please contact us.

*"Combo" contacts not available to suit 150 pin connectors, supplier with crimp type only

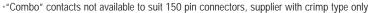


MP-41 SERIES

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PRODUCT - FIGURE	Dimensions in mm (inches)		Dimensions in mm (inches)				DINIC	PART NUMBER	
PRODUCT - FIGURE	DRAWING		В	С	D	E	F	PINS	PART NUIVIDER
	Panel plug with socket contacts, black	38 (1.49)	29.4	3.2	40.5	38.8			
	finish, supplied complete with gold plated		(1.15)	(0.13)	(1.60)	(1.53)	N/A	13	MP-4164-13S
10/10	solder / crimp "combo" * contacts.	41 (1.61)	31.8 (1.25)	3.2 (0.13)	(1.73)	38.8 (1.53)	N/A	19	MP-4164-19S
	A — G C OC	44.5	34.9	3.73	48.51	40.6	IV/A	17	WF-4104-173
00000		(1.75)	(1.37)	(0.14)	(1.91)	(1.60)	N/A	25	MP-4164-25S
(220000)		50.8	39.7	3.73	54.3	42			
1 20000		(1.99)	(1.56)	(0.14)	(2.14)	(1.65)	N/A	37	MP-4164-37S
	4 B ((0000) 000000 000000 00000	57	44.5	4.39	60.8	45			
		(2.24)	(1.75)	(0.17)	(2.40)	(1.77)	N/A	54	MP-4164-54S
711		69.8	55.5	4.39	73.3	45	21/0	0.5	MD 4474 050
	~	69.8	(2.18)	(0.17)	73.3	(1.77)	N/A	85	MP-4164-85S
		(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A	150	MP-4164-150S
		38	29.4	3.23	34.2	34.5	29	130	WII 4104 1303
	Panel receptacle with pin contacts, black	(1.49)	(1.15)	(0.13)	(1.34)	(1.35)	(1.14)	13	MP-4102-13P
	finish, supplied complete with gold plated solder / crimp "combo" * contacts.	41	31.8	3.23	37.4	34.5	32.2		
	Solder / Chilip Combo Contacts.	(1.61)	(1.25)	(0.13)	(1.47)	(1.35)	(1.26)	19	MP-4102-19P
1/4/ 1/3	A	44.5	34.9	3.73	40.9	35.7	35.3		
18 18 18 18		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P
		50.8	39.7	3.73	46.7	36.5	41.4	27	MD 4100 27D
-	A B (0000)	(1.99)	(1.56)	(0.14)	(1.83)	(1.44)	(1.62)	37	MP-4102-37P
	4 B ((00000))	(2.24)	(1.75)	(0.17)	(2.10)	(1.52)	(1.88)	54	MP-4102-54P
1111/		69.8	55.5	4.30	65.5	38.5	59	01	WII 1102 0 II
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	85	MP-4102-85P
		69.8	55.5	4.30	65.5	38.5	59		
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	150	MP-4102-150P
5- <u>-</u>	Plug protective dustcap to suit MP-4106 and MP-4164 types.	34.16	31.5	127	4.7				
		(1.35)	(1.24)	(4.99)	(0.18)	-	-	13	MP-25042-13
	, , , ypeer	(1.47)	(1.24)	(4.99)	(0.18)		_	19	MP-25042-19
0	 	40.87	31.5	127	4.7			17	WII 23042 17
B		(1.61)	(1.24)	(4.99)	(0.18)	_	_	25	MP-25042-25
		46.68	31.5	197	4.7				
	0D->	(1.84)	(1.24)	(7.75)	(0.18)	-	-	37	MP-25042-37
See .		53.36	31.5	197	5.5				
Jan 19	C J	(2.10)	(1.24)	(7.75)	(0.22)	-	-	54	MP-25042-54
		65.48 (2.58)	31.5 (1.24)	197 (7.75)	5.5 (0.22)		_	85	MP-25042-85
		65.48	31.5	197	5.5	-	-	00	WF-2004Z-80
		(2.58)	(1.24)	(7.75)	(0.22)	_	_	150	MP-25042-85
		38.8	20.7	127	4.7				
	Receptacle protective dustcap to suit	(1.53)	(0.81)	(4.99)	(0.18)	-	-	13	MP-25043-13
	MP-4101 and MP-4102 types.	41.6	20.7	127	4.7				
6		(1.64)	(0.81)	(4.99)	(0.18)	-	-	19	MP-25043-19
	→	45.3	20.7	140	4.7			25	MD 25042 25
	↓ □	(1.78) 52.15	(0.81)	(5.51)	(0.18)	-	-	25	MP-25043-25
	ØD- -1 	(2.05)	(0.81)	(7.75)	(0.21)	_	_	37	MP-25043-37
Cherry		58.6	20.7	197	5.5				
		(2.30)	(0.81)	(7.75)	(0.21)	-	-	54	MP-25043-54
		70.7	20.7	197	5.5				
		(2.78)	(0.81)	(7.75)	(0.21)	-	-	85	MP-25043-85
		70.7	20.7	197	5.5				MD 050 to 55
	uit 150 nin connectors sumplier with crimp type only	(2.78)	(0.81)	(7.75)	(0.21)	-	-	150	MP-25043-85





ACCESSORIES

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PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	NOT APPLICABLE	Crimp Tool	All	M22520/1-01
8	NOT APPLICABLE	Positioner / Turret	All	TH29-1
	NOT APPLICABLE	Insertion tool	13-85	MP-INS-16
	NOT / WT EIGHBEE		150	MP-INS-18
	NOT APPLICABLE	Extraction tool	All	MP-EXT-16/18
	NOT APPLICABLE	Contact Pilot Pin	13-85	MP-GUIDE-16
	NOT AFFLICABLE		150	MP-GUIDE-18
-	NOT APPLICABLE	"Combo" Pin Contact	13-85 (Size 16)	MP-108400
	NOT AFFLICABLE	Crimp Pin Contact	150 (Size 18)	MP-108300
-	NOT APPLICABLE	"Combo" Socket Contact	13-85 (Size 16)	MP-108600
	NOT APPLICABLE	Crimp Socket Contact	150 (Size 18)	MP-108500

NOTE: Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication Pi523 located on our website www.amphenol.com.au.

PART NUMBER BREAKDOWN MP-41 SERIES SERIES PREFIX HOUSING THE MULTIPIN CIRCULAR CONNECTORS Multipin, 4106 Cable Plug, 85 Contacts, S Female Socket Contacts, **MP** 4106 **SERIES PREFIX** MP Series Prefix HOUSING TYPE 4101 Inline cable connecting receptacle 4102 Panel receptacle 4106 Cable plug 4164 Panel plug 25042 Dustcap for plug 25043 Dustcap for receptacle NO. OF CONTACTS 13, 19, 25, 37, 54, 85, 150 P **GENDER** Male pin contacts *Not required for dustcaps S Female socket contacts





STANDARD DATA MP-41 SERIES

		VALUE											
GENERAL	Number of contacts	13	19	25	37	54	85	150					
CHARACTERISTICS	Number of channels	4	6	8	12	16	28	48					
	Termination			Solder / Crin	np "Combo"			Crimp					
	Wire Gauge - Stranded Wire			16AWG - 2	20AWG			18AWG					
	Environmental		Complie	es with RoHS	Directive 200	2/95/EC							
ELECTRICAL	Operating Voltage at Sea level - DC			250)V*			250V*					
CHARACTERISTICS	Operating Voltage at Sea level - AC			200)V*		200						
	Test Voltage AC RMS	1000V						1000V					
	Current Carrying Capacity			13	SA.			7.5A					
	Typical Contact Resistance	3.46mΩ 11.2											
	Insulation Resistance			3.46	mΩ			11.25mΩ					
CLIMATIC	Protection Class			IP67 (wh	nen mated)								
CHARACTERISTICS	Operating Temperature		-55°	C to +125°C	(-67°F to +2	57°F)							
MECHANICAL	Cable Retention	PG Gland											
CHARACTERISTICS	Mechanical Operations			2000 ma	ting cycles								
MATERIALS	Connector / Shell Finish			Aluminium	Alloy / Black								
	Insert		S	ynthetic Inser	t to MIL-R-30	65							
	Male pin contact / Plating	Brass / Gold flash plated						Brass / Gold flash plated					
	Female socket contact / Plating	Brass / Gold flash plated											
CLAMPING	PG Gland	11	13.5	16	2	21	29	36					
CHARACTERISTICS	Cable Clamping range mm	4-10	5-12	9-14	13	-18	14-25	19-32					
	(inches)	(0.15"- 0.39")	(0.19"- 0.47")	(0.35"- 0.55")	(0.51"	- 0.70")	(0.55"- 0.98")	(0.74"- 1.25")					

*Not suitable for domestic applications above 50V



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MP-62 SERIES



Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61 with gold plated solder contacts fitted as standard.

Features:

- 39 or 61 pins.
- Gold plated solder contacts. E
- Neoprene insert.
- Protective dust caps
- Environmental resistant.
- Black finish.
- · Positive bayonet locking
- PG cable glands

Specifications: Page 84 Wiring Info: Page 87

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches) DESCRIPTION -		nsions in mm (ii	nches)	PINS	PART NUMBER
TRODUCT TROUKE			В	PG	1 1143	TART NOWDER
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39	MP-6216-39P
		(1.53)	(7.15)			
		45.5	193	21	61	MP-6216-61P
	PG PG	(1.80)	(7.60)			
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39	MP-6211-39S
	B	(1.45)	(7.15)			
		43.0	193	21	61	MP-6211-61S
	PG	(1.70)	(7.60)			

^{*}Note: NPT 3/4" threaded adaptors available on request. Refer series code MP-65.

PRODUCT - FIGURE	DPAWING Dimensions in mm (inch	NG Dimensions in mm (inches) DESCRIPTION —		Dimensions in mm (inches)					PINS	PART NUMBER
TRODUCT - TIOURE	DIAWING Dimensions in him (inche			В	С	D	E	F	1 1113	TAIRT NOMBER
	Δ	Black finish, Gold plated	38.86	29.36	6-32 UNC	39.0	26.5	-		
	B——B———ØC	solder contacts.	(1.53)	(1.16)		(1.54)	(1.04)	-	39	MP-6256-39P
			43.94	34.93	6-32 UNC	45.5	26.5	-		
			(1.73)	(1.38)		(1.80)	(1.04)	-	61	MP-6256-61P
		Panel receptacle plug with socket contacts, Black finish,	36.7	29.36	3.05	31.8	22.3	30.1		
ARTON ARTON	A B B O C	Gold plated solder contacts.	(1.44)	(1.15)	(0.12)	(1.25)	(0.87)	(1.18)	39	MP-6212-39S
	V H H H H H H H H H H H H H H H H H H H	9	43.0	34.93	3.74	38.1	22.3	36.4		
		—E—⇒	(1.69)	(1.38)	(0.15)	(1.50)	(0.87)	(1.43)	61	MP-6212-61S



ACCESSORIES



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches)			es)	PINS	PART NUMBER	
FRODUCT - FIGURE	DRAWING Dimensions in mim (inches) DESCRIPTION		Α	В	С	D	FINS	TAKT NOWIDER	
	> ØA >	Plug protective dustcap to suit MP-	31.7	15.9	127	4.40			
	0	6216 and MP-6256 types.	(1.25)	(0.62)	(4.99)	(0.17)	39	MP-742-39	
		ØD-	38.05	16.70	127	4.40			
	C		(1.50)	(0.66)	(4.99)	(0.17)	61	MP-742-61	
Jane 1		Receptacle protective dustcap to suit MP-	36.9	13.13	127	4.40			
	ØA	6211 and MP-6212 types	(1.45)	(0.52)	(4.99)	(0.17)	39	MP-738-39	
	øD.	ØD-	43.14	14.15	127	4.40			
A CONTRACTOR OF THE PARTY OF TH	C		(1.70)	(0.56)	(4.99)	(0.17)	61	MP-738-61	

STANDARD DATA MP-62 SERIES

		VALUE						
GENERAL	Number of contacts	39	61					
CHARACTERISTICS	Number of channels	12	20					
	Termination	Sol	lder					
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG	24AWG-20AWG					
		2 x 20AWG-16AWG						
	Environmental	Complies with RoHS	Directive 2002/95/EC					
ELECTRICAL	Operating Voltage at Sea level - DC	600	OV*					
CHARACTERISTICS	Operating Voltage at Sea level - AC	600	0V*					
	Test Voltage AC RMS	150	00V					
	Current Carrying Capacity	37 x 7.5A	7.5A					
		2 x 13A						
	Insulation Resistance	500	DMΩ					
CLIMATIC	Protection Class	IP67 (wh	en mated)					
CHARACTERISTICS	Operating Temperature	-55°C to +125°C ((-67°F to +257°F)					
MECHANICAL	Cable Retention	PG (Gland					
CHARACTERISTICS	Mechanical Operations	500 mating cy	cles (minimum)					
MATERIALS	Connector / Shell Finish	Aluminium /	Alloy / Black					
	Insert	Neop	prene					
	Male pin contact machined - Plating	Brass / Gold flash plated						
	Female socket contact machined - Plating	Brass / Gold flash plated						
CLAMPING	PG Gland	16	21					
CHARACTERISTICS	Cable Clamping range mm (inches)	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")					





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