

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 85 pins with Crimp / Solder bucket contacts
- · 150 pins with Crimp contacts only
- 4 to 48 channel
- Gold plated contacts
- Synthetic inserts
- · Environmental resistant
- · Positive Bayonet locking
- PG cable gland
- · 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring
- · Metal Housings

Features / Options - MP-62 Series

- 39 or 61 Solder bucket contacts
- Gold plated contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland or NPT thread
- Metal Housings

Ordering Codes

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

MULTIPIN CONNECTORS

Simple steps to guide you in using this catalogue

- 1) 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.
- 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



MP-41 SERIES

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 contacts supplied with each connector as standard.

Features:

- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- · Gold plated contacts
- · Synthetic insert
- · Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- · Positive bayonet locking
- PG cable glands
- IP67 rated
- · Metal housings
- lls. Crimp Tooling: Page 129 Part Number Breakdown: Page 129

Options: NPT threaded backshells. Specifications: Page 130 F Wiring Information: Page 141

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimension A	ıs in mm (ir B	s in mm (inches) B PG		PART NUMBER	PART NUMBER With Dustcap
		40.5	160				
	Straight cable plug with socket contacts, Black finish, supplied	(1.60)	(6.30)	11	13	MP-4106-13S	MP-4106-13S-C
Care and the second	complete with contacts.	44	171				
1000		(1.73)	(6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
CONCELLENCE OF THE STREET	B	46.6	193				
1.63		(1.83)	(7.60)	16	25	MP-4106-25S	MP-4106-25S-C
		54.3	210				
111	PG-/	(2.14)	(8.26)	21	37	MP-4106-37S	MP-4106-37S-C
and the second s	13, 19, 25, 37 and 54 contact type	60.1	210				
		(2.36)	(8.26)	21	54	MP-4106-54S	MP-4106-54S-C
		73.3	137				
		(2.88)	(5.40)	29	85	MP-4106-85S	MP-4106-85S-C
	85 and 150 contact type	73.3	145				
	os anu iso connaci rype	(2.88)	(5.70)	36	150	MP-4106-150S	MP-4106-150S-C
		37.8	160				
	Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.		(6.30)	11	13	MP-4101-13P	MP-4101-13P-C
Station			171				
Contraction of the second seco		(1.62)	(6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
118 Ca	B	41.5	193				
		(1.63)	(7.60)	16	25	MP-4101-25P	MP-4101-25P-C
		51	210				
1111	PG-/	(2.00)	(8.26)	21	37	MP-4101-37P	MP-4101-37P-C
	13, 19, 25, 37 and 54 contact type	57.1	210				
		(2.25)	(8.26)	21	54	MP-4101-54P	MP-4101-54P-C
		70	137				
		(2.75)	(5.40)	29	85	MP-4101-85P	MP-4101-85P-C
	←G 85 and 150 contact type	70	145				
	os and iso contact type	(2.75)	(5.70)	36	150	MP-4101-150P	MP-4101-150P-C
lote: NPT threaded backshells avail	able on request. Places contact up				-		

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

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MP-41 Series

PRODUCT - FIGURE	Dimensions in mm (inches)		Di	mensions	in mm (inc	hes)		PINS	PART NUMBER	PART NUMBER
	DRAWING		В	C	D	E	F			With Dustcap
	Panel plug with socket contacts,	38	29.4	3.2	40.5	38.8				
	black finish, supplied complete	(1.49)	(1.15)	(0.13)	(1.60)	(1.53)	N/A	13	MP-4164-13S	MP-4164-13S-C
0/0	with contacts.	41	31.8	3.2	44	38.8				
	mar contactor	(1.61)	(1.25)	(0.13)	(1.73)	(1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
C	, ⊨⊐	44.5	34.9	3.73	48.51	40.6				
000000		(1.75)	(1.37)	(0.14)	(1.91)	(1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C
a cree	B	50.8	39.7	3.73	54.3	42				
		(1.99)	(1.56)	(0.14)	(2.14)	(1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
111		57	44.5	4.39	60.8	45				
1		(2.24)	(1.75)	(0.17)	(2.40)	(1.77)	N/A	54	MP-4164-54S	MP-4164-54S-C
		69.8	55.5	4.39	73.3	45				
	E	(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A	85	MP-4164-85S	MP-4164-85S-C
		69.8	55.5	4.39	73.3	45				
		(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A	150	MP-4164-150S	MP-4164-150S-C
		38	29.4	3.23	34.2	34.5	29	100	WII - + 10 + 1000	
	Panel receptacle with pin contacts,	(1.49)	(1.15)	(0.13)	(1.34)	(1.35)	(1.14)	13	MP-4102-13P	MP-4102-13P-C
	black finish, supplied complete with	41	31.8	3.23	37.4	34.5	32.2	13	IVIF-4102-15P	101-102-101-0
6/6	contacts.							19	MD 4100 100	MP-4102-19P-C
		(1.61)	(1.25) 34.9	(0.13) 3.73	(1.47) 40.9	(1.35) 35.7	(1.26) 35.3	19	MP-4102-19P	102-101-0
N N 189								05		MD 4100 05D C
		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P	MP-4102-25P-C
	A	50.8	39.7	3.73	46.7	36.5	41.4			MD 4100 07D 0
5.5.0		(1.99)	(1.56)	(0.14)	(1.83)	(1.44)	(1.62)	37	MP-4102-37P	MP-4102-37P-C
1111/		57	44.5	4.30	53.4	38.5	47.8			
- 0179		(2.24)	(1.75)	(0.17)	(2.10)	(1.52)	(1.88)	54	MP-4102-54P	MP-4102-54P-C
		69.8	55.5	4.30	65.5	38.5	59			
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	85	MP-4102-85P	MP-4102-85P-C
		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	MP-4102-150P-C
		34.16	31.5	110	4.7					
	Plug protective dustcap to suit MP-	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25042-13S	-
	4164 type.	37.36	31.5	110	4.7					
		(1.47)	(1.24)	(4.33)	(0.18)	-	-	19	MP-25042-19S	-
		40.87	31.5	110	4.7					
Second Second	·	(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25042-25S	-
1 9		46.68	31.5	110	4.7					
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25042-37S	-
		53.36	31.5	110	5.5					
de l		(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25042-54S	-
		65.48	31.5	110	5.5					
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	85	MP-25042-85S	-
		65.48	31.5	110	5.5					
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25042-150S	-
		38.8	20.7	255						
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-	-	-	13	MP-25042-13L	-
	suit MP-4106 types.	41.6	20.7	255						
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25042-19L	-
		45.3	20.7	255						
Towner, and		(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25042-25L	-
1/ .	د	52.15	20.7	255						
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25042-37L	-
2		58.6	20.7	255						
\smile		(2.30)	(0.81)	(8.07)	-	-	-	54	MP-25042-54L	-
	<u>⊷ ••</u>	70.7	20.7	255						
		(2.78)	(0.81)	(8.07)	-	-	-	85	MP-25042-85L	-
		70.7	20.7	255					20012 002	
		(2.78)	(0.81)	(8.07)	-	_	_	150	MP-25042-150L	-
L		(2.70)	(0.01)	(0.07)				100	WII -20042-IJUL	1

Multipin Connectors MP-41 Series

PRODUCT - FIGURE	Dimensions in mm (inches)		Di	mensions	in mm (inc	hes)		DING	PART NUMBER
THODOCT THUGHE	DRAWING		В	C	D	E	F		
		34.16	31.5	110	4.7				
	Plug protective dustcap to suit MP-	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25043-13S
	4102 types.	37.36	31.5	110	4.7				
		(1.47)	(1.24)	(4.33)	(0.18)	-	-	19	MP-25043-19S
	_	40.87	31.5	110	4.7				
and the second s		(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25043-25S
E R		46.68	31.5	110	4.7				
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25043-37S
10 Miles	8	53.36	31.5	110	5.5				
~		(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25043-54S
	¢λ	65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	85	MP-25043-85S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25043-150S
		38.8	20.7	255					
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-	-	-	13	MP-25043-13L
	suit MP-4101 types.	41.6	20.7	255					
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25043-19L
		45.3	20.7	255					
el l'entre	r	(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25043-25L
1 9	A L	52.15	20.7	255					
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25043-37L
(to		58.6	20.7	255					
	©	(2.30)	(0.81)	(8.07)	-	-	-	54	MP-25043-54L
		70.7	20.7	255					
		(2.78)	(0.81)	(8.07)	-	-	-	85	MP-25043-85L
		70.7	20.7	255					
		(2.78)	(0.81)	(8.07)		-	-	150	MP-25043-150L

MP-41 Series

PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	N/A	Crimp Tool	All	M22520/1-01
	N/A	Positioner / Turret	All	TH29-1
	N/A	Insertion tool	13-85	MP-INS-16
			150	MP-INS-18
	N/A	Extraction tool	All	MP-EXT-16/18
	N/A	Contact Pilot Pin	13-85	MP-GUIDE-16
	IN/A		150	MP-GUIDE-18
	NI/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
	N/A	Crimp Pin Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	N/A	Solder/Crimp Socket Contact	13-85 (Size 16)	MP-108600
	IN/ A	Crimp Socket Contact (Soldering of this contact is not recommended)	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.amphenolaudio.com.

PART NUMBER BREAKDOWN MP-41 SERIES

MULTIPIN CIRCULAR CONNECTORS

			REAKDOWN MI			k .		ONTACTS	
E. G. MP-4106-85S Multipin, 4106 Cable			mEGIORS	SERIES PRE				FCONTRETS *GENDE	
SERIES PREFIX	MP	=	Series Prefix	<u>M</u> P -	4106	-	85	S	C
HOUSING TYPE	4101 4102 4106 4164 25042S 25042L 25043S 25043L		Inline cable connecting receptacle Panel receptacle Cable plug Panel plug Dustcap for panel plug Dustcap for cable plug Dustcap for panel receptacle Dustcap for cable receptacle	- 					
NO. OF CONTACTS			13, 19, 25, 37, 54, 85, 150]					
GENDER *Not required for dustcap part numbers	P S	=	Male pin contacts Female socket contacts]					
OPTIONS	С	=	Supplied with Dustcap]					

MP-41 Series

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 / Crimp "Combo"									
	Wire Gauge - Stranded Wire			16AWG - 3	20AWG			18AWG				
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU										
ELECTRICAL	Operating Voltage at Sea level - DC			250)V*			250V*				
CHARACTERISTICS	Operating Voltage at Sea level - AC			200)V*			200V*				
	Test Voltage AC RMS			100)0V			1000V				
	Current Carrying Capacity		13A									
	Typical Contact Resistance	3.46mΩ 11.25mΩ										
	Insulation Resistance	5000ΜΩ										
	Protection Class		IP67 (when mated)									
CHARACTERISTICS	Operating Temperature		-55°C to +125°C (-67°F to +257°F)									
MECHANICAL	Cable Retention		PG Gland									
CHARACTERISTICS	Mechanical Operations	2000 mating cycles										
MATERIALS	Connector / Shell Finish			Aluminium	Alloy / Black							
	Insert		Synthetic Insert to MIL-R-3065									
	Male pin contact / Plating		Brass / Gold plated									
	Female socket contact / Plating			Brass / G	Gold plated							
	PG Gland	11	13.5	16	:	21	29	36				
CHARACTERISTICS	Cable Clamping range mi	n 4-10	5-12	9-14	13	-18	14-25	19-32				
	(inche	s) (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

MP-62/65 Series



MP-62/65 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.
- Neoprene insert.
- Protective dust caps

Specifications: Page 133

• Environmental resistant.

- · Black finish.
- · Positive bayonet locking
- PG cable glands
- Metal housings

Wiring Info: Page 141

PRODUCT - FIGURE	Dimensions in mm (inches)	Dimensio	ns in mm (in	ches)	PINS	PART NUMBER	PART NUMBER
	DRAWING	A	В	PG			With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39		
No.	B	(1.53)	(7.15)			MP-6216-39P	MP-6216-39P-C
		45.5	193	21	61		
		(1.80)	(7.60)			MP-6216-61P	MP-6216-61P-C
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39		
	B	(1.45)	(7.15)			MP-6211-39S	MP-6211-39S-C
		43.0	193	21	61		
	CPG	(1.70)	(7.60)			MP-6211-61S	MP-6211-61S-C
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.	38.9	90	NPT	39		
		(1.53)	(3.54)	3/4"		MP-6516-39P	MP-6516-39P-C
		45.5	100	NPT	61		
		(1.80)	(3.94)	3/4"		MP-6516-61P	MP-6516-61P-C
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish,	36.7	90	NPT	39		
	Gold plated solder contacts.	(1.45)	(3.54)	3/4"		MP-6511-39S	MP-6511-39S-C
		43.0	100	NPT	61		
		(1.70)	(3.94)	3/4"		MP-6511-61S	MP-6511-61S-C

Multipin Connectors MP-62/65 Series

PRODUCT - FIGURE	Dimensions in mm (inches)		Dimensions in mm (inches)						PART	PART NUMBER	
	DRAWING	A	В	C	D	E	F	PINS	NUMBER	With Dustcap	
~	Panel plug with pin contacts, Black fin- ish, Gold plated solder contacts.	38.86	29.36	6-32	39.0	32	-				
		(1.53)	(1.16)	UNC	(1.54)	(1.26)	-	39	MP-6256-39P	MP-6256-39P-C	
		43.94	34.93	6-32	45.5	35	-				
- (0		(1.73)	(1.38)	UNC	(1.80)	(1.38)	-	61	MP-6256-61P	MP-6256-61P-C	
°	Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.	36.7	29.36	3.05	31.8	22.3	30.1				
	A B ØC	(1.44)	(1.15)	(0.12)	(1.25)	(0.87)	(1.18)	39	MP-6212-39S	MP-6212-39S-C	
		43.0	34.93	3.74	38.1	22.3	36.4				
1 1993 - C		(1.69)	(1.38)	(0.15)	(1.50)	(0.87)	(1.43)	61	MP-6212-61S	MP-6212-61S-C	

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	D	imensions	in mm (ind	ches)	PINS	PART NUMBER	
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	A	В	C		PINS	PARI NUMBER	
		Plug protective dustcap to suit MP-6256	31.7	15.9	127	4.40	39	MP-742-39S	
			(1.25)	(0.62)	(4.99)	(0.17)			
All			38.05	16.70	127	4.40	61	MP-742-61S	
		¢A	(1.50)	(0.66)	(4.99)	(0.17)			
		Receptacle protective dustcap to suit MP-6216	36.9	13.13	127	-	39	MP-742-39L	
	c		(1.45)	(0.52)	(4.99)		- 55	WI -7-72-03L	
			43.14	14.15	127	-	61	MP-742-61L	
			(1.70)	(0.56)	(4.99)				
Sec. 10		Plug protective dustcap to suit MP-6212	31.7	15.9	127	4.40	39	MP-738-39S	
P24	cc		(1.25)	(0.62)	(4.99)	(0.17)	39	MP-730-395	
	╡ <mark>╪╶©─╘────</mark> ┽┝─		38.05	16.70	127	4.40			
		ØA	(1.50)	(0.66)	(4.99)	(0.17)	61	MP-738-61S	
		Receptacle protective dustcap to suit MP-6211	36.9	13.13	127	-		MD 700 001	
	¢¢		(1.45)	(0.52)	(4.99)		39	MP-738-39L	
0			43.14	14.15	127	-	61	MP-738-61L	
		<i>ØA</i>	(1.70)	(0.56)	(4.99)		01	WIF-7-30-01L	

Multipin Connectors MP-62/65 Series

STANDARD DATA MP-62 SERIES / MP - 65 SERIES

		VALU	E						
GENERAL	Number of contacts	39	61						
CHARACTERISTICS	Number of channels	12	20						
	Termination	Solder							
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG	24AWG-20AWG						
		2 x 20AWG-16AWG							
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU							
ELECTRICAL	Operating Voltage at Sea level - DC	600V*	*						
CHARACTERISTICS	Operating Voltage at Sea level - AC	600V*							
	Test Voltage AC RMS	1500V							
	Current Carrying Capacity	37 x 7.5A	7.5A						
		2 x 13A							
	Insulation Resistance	5000M	Ω						
CLIMATIC	Protection Class	IP67 (when mated)							
CHARACTERISTICS	Operating Temperature	-55°C to +125°C (-67	7°F to +257°F)						
MECHANICAL	Cable Retention	PG Gland /	/ NPT Thread						
CHARACTERISTICS	Mechanical Operations	500 mating cycles	s (minimum)						
MATERIALS	Connector / Shell Finish	Aluminium Allo	y / Black						
	Insert	Neoprer	ne						
	Male pin contact machined - Plating	Brass / Gold plated							
	Female socket contact machined - Plating	Brass / Gold plated							
CLAMPING	PG Gland	16	21						
CHARACTERISTICS	Cable Clamping range mm (inches)	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")						

*Not suitable for domestic applications above 50V



AMPHENOL-TUCHEL C146 HEAVY | MATE CONNECTORS

Amphenol Tuchel C146 series rectangular connectors feature modular components ensuring a vast range of different features and benefits for the end user. The zinc diecast aluminum housings are finished in a durable powder coat and available in either top or side entry. Connector coupling is achieved via a positive locking lever ensuring a positive rapid connection. The C146 series is suitable for general-purpose audio and lighting applications and is completely intermateable with all competitor connectors.



FIBRE OPTIC

Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and cable assemblies for indoor or outdoor applications.