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EP / AP SERIES HIGH POWER CONNECTORS

The EP Series incorporates a rugged zinc diecast shell to give it maximum durability when used in demanding situations. The EP cable connector cable flex relief design minimises cable bend stress at point of entry into the connector housing.

The AP Series Shell is manufactured from tough, durable thermoplastic, and ideal for fixed indoor installations. Both the EP and AP Series utilise the same contact and insulator components.

Features

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell for the EP series.
- Cost effective durable thermoplastic shell for the AP series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter
- Quick release, vibration resistant latch lock.
- EP Cable Connectors are supplied with two different boots for different cable diameters.
- AP & EP Series are completely intermatable.

Options

- · Solder Bucket termination
- · Nickel Plated Zinc Alloy shell
- · Black finished Zinc Alloy shell
- · Precision machined contacts
- Thermoplastic shell

Ordering Codes

We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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 variations column to determine your choice.
- 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.



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METAL TYPE - SOLDER



The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

Features:

- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- · High current contacts
- Male and female cable and chassis connectors available.
- EP Cable Connectors are supplied with two different boots for different cable diameters.

Options: Black Finish Shell. Specifications: Page 57-58
Panel Cutouts: Page 58

4 pole black finish

5 pole nickel finish

5 pole black finish

6 pole nickel finish

6 pole black finish

8 pole nickel finish

8 pole black finish

PRODUCT - FIGURE DRAWING DESCRIPTION **VARIATIONS** PART NUMBER Dimensions in mm (inches) EP Male cable 3 pole nickel finish EP-3-12 Machined contacts, 3 pole black finish EP-3-12B Metal Shell 4 pole nickel finish EP-4-12 64.0 [2.521"] 85.5 [3.366"]-4 pole black finish EP-4-12B 5 pole nickel finish EP-5-12 5 pole black finish EP-5-12B ISO ASSEMBLY OF 6 pole nickel finish EP-6-12 **EP MALE** 6 pole black finish EP-6-12B 8 pole nickel finish EP-8-12 8 pole black finish EP-8-12B EP Female cable 3 pole nickel finish EP-3-11P connector. Machined contacts, 3 pole black finish EP-3-11PB Metal Shell 4 pole nickel finish EP-4-11P 66.8 [2.63"]



ISO ASSEMBLY OF

EP FEMALE

88.0 [3.465*]-

EP-4-11PB

EP-5-11P

EP-5-11PB

EP-6-11P

EP-6-11PB

EP-8-11P

EP-8-11PB

EP AP

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METAL TYPE - SOLDER

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	29.2 [1.148"] = 050.8 [92"]	Π	EP Male chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-14
		1.132"}		3 pole black finish	EP-3-14B
(0)		028.8 [01.132];		4 pole nickel finish	EP-4-14
Q in the same		→ 3.5 [.138"] → 31.8 [1.252"] →		4 pole black finish	EP-4-14B
				5 pole nickel finish	EP-5-14
				5 pole black finish	EP-5-14B
				6 pole nickel finish	EP-6-14
				6 pole black finish	EP-6-14B
				8 pole nickel finish	EP-8-14
				8 pole black finish	EP-8-14B
100		7.5 (.295')	EP Female chassis mount,	3 pole nickel finish	EP-3-13P
	%20.8 (5.1) %20.8 (5.1) %3.5 (1148.1) -4 (2.1) (2.1) (2.1) (3.1)		Round Flange, Machined contacts, Metal Shell	3 pole black finish	EP-3-13PB
		38.3 (1.5087)-		4 pole nickel finish	EP-4-13P
		3.5 (138°) -36.5 (1.438°)		4 pole black finish	EP-4-13PB
				5 pole nickel finish	EP-5-13P
				5 pole black finish	EP-5-13PB
				6 pole nickel finish	EP-6-13P
				6 pole black finish	EP-6-13PB
				8 pole nickel finish	EP-8-13PT
				8 pole black finish	EP-8-13PBT
	-25 2 [1.148]	7.5 [.295"]	EP Female chassis mount, Round Flange, Stamped contacts, Metal Shell	8 pole nickel finish	EP-8-13P
				8 pole black finish	EP-8-13PB

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THERMOPLASTIC TYPE - SOLDER



The AP Series provides the same power handling performance as the EP Series in a cost effective, yet durable Thermoplastic housing.

Features:

- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

Specifications: Page 57-58
Panel Cutouts: Page 58

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	28.8 [1.135*]		AP Male cable connector, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-12
				5 pole	AP-5-12
8				6 pole	AP-6-12
•	100.0 [3.937	·*]		8 pole	AP-8-12
			AP Female cable connector,	4 pole	AP-4-11
		Ø28.8 (1.132*)	Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-11
				6 pole	AP-6-11
	98.7 [3.886*]]		8 pole	AP-8-11
	28. [115]		AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-14
		30.6 [1.204"		5 pole	AP-5-14
				6 pole	AP-6-14
		2.8 [.11"] 	SHOII.	8 pole	AP-8-14
	29.2 [11467] 29.2 [11467]	7.5 (.295*)	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-13
		AUVE.		5 pole	AP-5-13
				6 pole	AP-6-13
		2.8 [.11"] 		8 pole	AP-8-13
	22.8 [11] 29.2 [1.148] 40.0 [1.575]		AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-22
		2.4 [91.276		5 pole	AP-5-22
		<u>- </u>		6 pole	AP-6-22
		6.2 [.244"] 31.8 [1.252"]		8 pole	AP-8-22
Ö.	7.5 [295] 7.5 [295]		AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-21
		24 [61,2767]		5 pole	AP-5-21
				6 pole	AP-6-21
		6.2 [.244"]		8 pole	AP-8-21





STANDARD DATA EP/AP

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6	8
	Contact Arrangements (Front view of pin insert)	1 3 e	1 4 6 2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 2 3 4	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Termination	SOLDER				
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability	UL94V-0				
	Environmental	Complies with RoHS Directive 2002/95/EC				
ELECTRICAL	Service Voltage RMS ¹⁾	460V	660V	200V	200V	100V
CHARACTERISTICS	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
	Current carrying capacity	20A	20A	20A	20A	15A
	Typicial Contact Resistance	≤ 3mΩ				
	Insulation Resistance	≥ 1000MΩ				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
CHARACIERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)				
MECHANICAL	Weight - EP 11 & 12 ²⁾	80g	84g	86g	86g	
CHARACTERISTICS		(0.176lb)	(0.185lb)	(0.189lb)	(0.189lb)	
	Weight - EP 13 & 14 ²⁾	48g	50g	54g	54g	
		(0.105lb)	(0.110lb)	(0.119lb)	(0.119lb)	
	Weight - AP 11 & 12 ²⁾	N/A	42g	44g	44g	
			(0.092lb)	(0.097lb)	(0.097lb)	
	Weight - AP 13, 14, 21 & 22 ²⁾	N/A	26g	30g	30g	
			(0.057lb)	(0.066lb)	(0.066lb)	
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter				
	Mechanical operations	1000 mating cycles				

Not suitable for domestic applications above 50V

²⁾ Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



STANDARD DATA

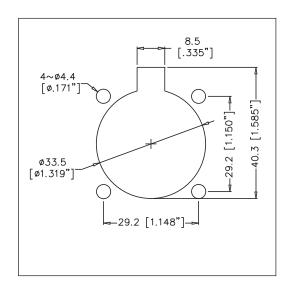
STANDARD DATA EP/AP (CONT'D)

		DETAILS		
MATERIALS	ТҮРЕ	AP	EP	
	Connector shell	Modified PPE Resin Diecast Zinc Alloy		
	Shell finish	Black	Satin Nickel or Black	
	Insulators	UL94V-0 PBT Resin		
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer	
	Male contact Machined - Solder			
	Material / Plating	Brass / E	Bright Tin	
	Female contact Machined - Solder			
	Material / Plating Brass / Bright Tin			
CLAMPING CHARACTERISTICS	Cable OD Range	11mm to 17mm	9mm to 16mm	
		(0.43" to 0.67")	(0.35" to 0.63")	
	Retention Method	Two opposing plastic screws	Metal saddle clamp	



EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22

