



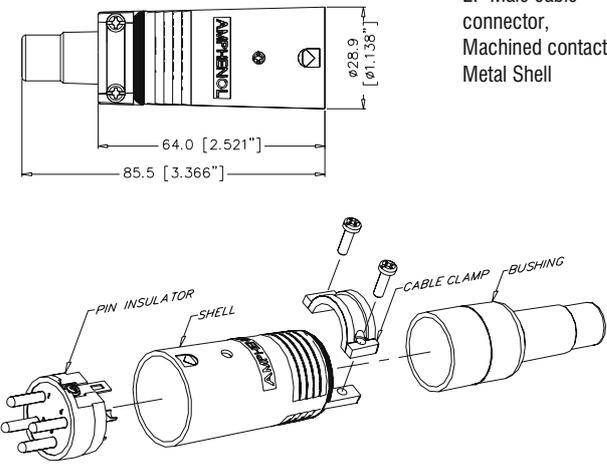
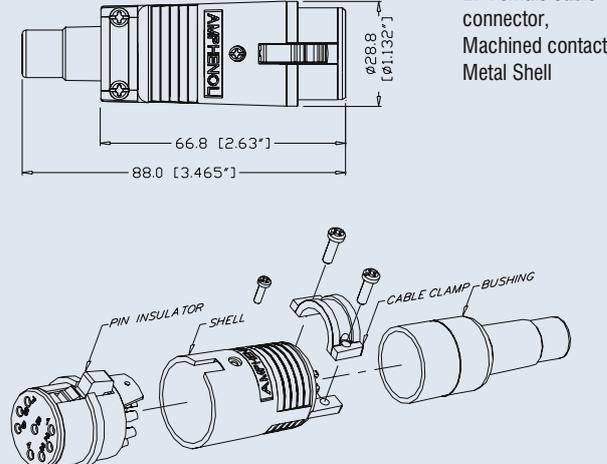
The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

**Features:**

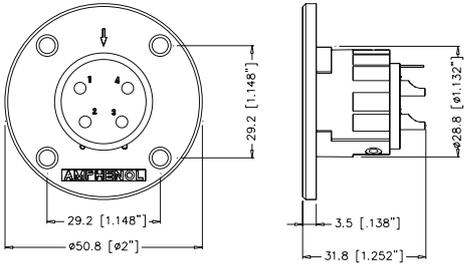
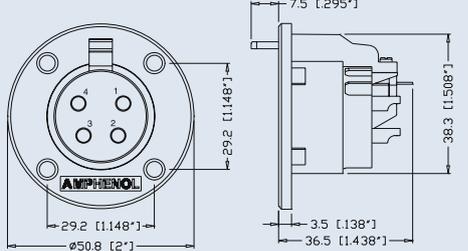
- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.

**Options:** Black Finish Shell  
**Panel Cutouts:** Page 74

**Specifications:** Page 73

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
 <p><b>ISO ASSEMBLY OF EP MALE</b></p>	<p>Dimensions in mm (inches)</p> 	<p>EP Male cable connector, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-12
			3 pole black finish	EP-3-12B
			4 pole nickel finish	EP-4-12
			4 pole black finish	EP-4-12B
			5 pole nickel finish	EP-5-12
			5 pole black finish	EP-5-12B
			6 pole nickel finish	EP-6-12
			6 pole black finish	EP-6-12B
			8 pole nickel finish	EP-8-12
8 pole black finish	EP-8-12B			
 <p><b>ISO ASSEMBLY OF EP FEMALE</b></p>		<p>EP Female cable connector, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-11P
			3 pole black finish	EP-3-11PB
			4 pole nickel finish	EP-4-11P
			4 pole black finish	EP-4-11PB
			5 pole nickel finish	EP-5-11P
			5 pole black finish	EP-5-11PB
			6 pole nickel finish	EP-6-11P
			6 pole black finish	EP-6-11PB
			8 pole nickel finish	EP-8-11P
8 pole black finish	EP-8-11PB			



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		<p>EP Male chassis mount, Round Flange, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-14
			3 pole black finish	EP-3-14B
			4 pole nickel finish	EP-4-14
			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
		<p>EP Female chassis mount, Round Flange, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-13P
			3 pole black finish	EP-3-13PB
			4 pole nickel finish	EP-4-13P
			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-8-13P
			8 pole black finish	EP-8-13PB





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.

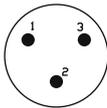
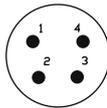
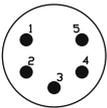
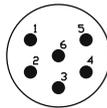
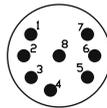
**Specifications: Page 73**

**Panel Cutouts: Page 74**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		28.8 [1.135"] 100.0 [3.937"]	AP Male cable connector, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-12 AP-5-12 AP-6-12 AP-8-12
		28.8 [1.132"] 98.7 [3.886"]	AP Female cable connector, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-11 AP-5-11 AP-6-11 AP-8-11
		29.2 [1.15"] 432.4 [16.276"] 29.2 [1.15"] 450.8 [17.75"] 31.8 [1.252"]	AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-14 AP-5-14 AP-6-14 AP-8-14
		29.2 [1.148"] 432.4 [16.276"] 29.2 [1.148"] 450.8 [17.75"] 36.5 [1.438"]	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-13 AP-5-13 AP-6-13 AP-8-13
		29.2 [1.148"] 432.4 [16.276"] 29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 31.8 [1.252"]	AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-22 AP-5-22 AP-6-22 AP-8-22
		29.2 [1.148"] 432.4 [16.276"] 29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 36.5 [1.438"]	AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-21 AP-5-21 AP-6-21 AP-8-21



## STANDARD DATA EP/AP

		VALUE				
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5	6	8
	Contact Arrangements (Front view of pin insert)					
	Termination	SOLDER				
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability	UL94V-0				
Environmental	Complies with EU RoHS 2 Directive 2011/65/EU					
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V
	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
	Current carrying capacity	20A	20A	20A	20A	15A
	Typical Contact Resistance	≤3mΩ				
	Insulation Resistance	≥1000MΩ				
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
<b>MECHANICAL CHARACTERISTICS</b>	Weight - EP 11 & 12 <sup>2)</sup>	80g (0.176lb)	84g (0.185lb)	86g (0.189lb)	86g (0.189lb)	86g (0.189lb)
	Weight - EP 13 & 14 <sup>2)</sup>	48g (0.105lb)	50g (0.110lb)	54g (0.119lb)	54g (0.119lb)	54g (0.119lb)
	Weight - AP 11 & 12 <sup>2)</sup>	N/A	42g (0.092lb)	44g (0.097lb)	44g (0.097lb)	44g (0.097lb)
	Weight - AP 13, 14, 21 & 22 <sup>2)</sup>	N/A	26g (0.057lb)	30g (0.066lb)	30g (0.066lb)	28g (0.061lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter				
	Mechanical operations	1000 mating cycles				

<sup>1)</sup> Not suitable for domestic applications above 50V

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



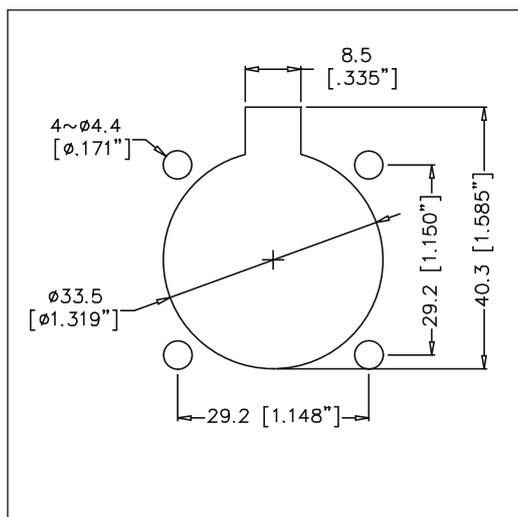
## STANDARD DATA EP/AP (CONT'D)

MATERIALS		DETAILS	
		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		Brass / Bright Tin	
Material / Plating			
Female contact Machined - Solder		Brass / Bright Tin	
Material / Plating			
CLAMPING CHARACTERISTICS	Cable OD Range	11mm to 17mm (0.43" to 0.67")	9mm to 16mm (0.35" to 0.63")
	Retention Method	Two opposing plastic screws	Metal saddle clamp

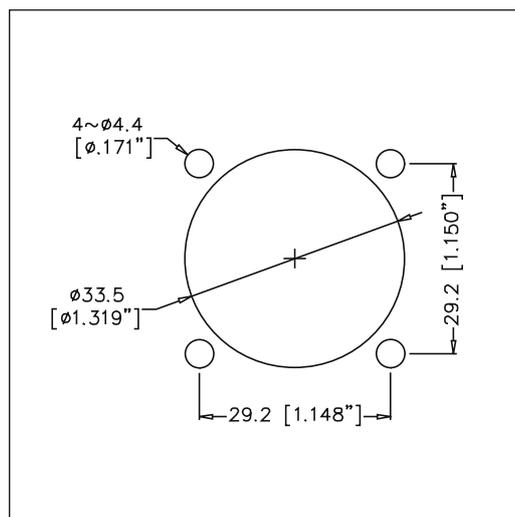
Rev 3 - 03/2013

## EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22



# Mouser Electronics

Authorized Distributor

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## Amphenol:

[EP-4-14](#) [EP-6-14](#) [EP-4-13PB](#) [EP-6-13PB](#) [EP-3-11P](#) [EP-5-11P](#) [EP-8-11P](#) [EP-8-11PB](#) [EP-8-12](#) [EP-8-14](#) [AP-8-12](#)  
[EP-5-12](#) [EP-5-14](#) [AP-4-22](#) [EP-4-12B](#) [EP-8-12B](#) [EP-5-14B](#) [EP-5-12B](#) [EP-5-13PB](#) [EP-5-11PB](#) [EP-3-14](#) [EP-3-12](#)  
[EP-8-13PB](#) [EP-6-14B](#) [EP-8-14B](#) [EP-6-12B](#) [EP-4-12](#) [EP-6-12](#) [EP-4-11P](#) [EP-4-11PB](#) [EP-4-14B](#)