SP/EP/AP SERIES LOUDSPEAKER **CONNECTORS**

SP Series

The SP Series are available in 2 or 4 pole chassis mount connectors. The durable thermoplastic housings are fitted with high power contacts to ensure optimal current carrying capacity. Completely intermatable with industry standard loudspeaker connections.

Features

- High current contacts for distortion free signal.
- Cost effective durable thermoplastic shell
- · Available in 2 and 4 contact arrangements.
- Overmolded cable support boot or PG gland with or without cable support strain relief.
- Quick release, vibration resistant latch lock.
- · UL, cUL recognized components
- (File no. E339831) · Precision machined contacts
- · Thermoplastic shell

Options

- · Solder termination / Tab or Printed Circuit Board versions, Screw Terminals
- · Nickel Plated Zinc Alloy shell
- · Black finished Zinc Alloy shell

EP Series

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.

Features

- · High current contacts for distortion free signal.
- Tough, durable zinc diecast shell
- · Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.
- · Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- · Precision machined contacts

Options

- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell
- · Available in 3, 4, 5, 6 and 8 contact arrangements

AP Series

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.
- · Cost effective durable thermoplastic shell
- · Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- · Precision machined contacts
- · Thermoplastic shell

Options

• Available in 4, 5, 6, and 8 contact arrangements.

ENTERTAINMENT INTERCONNECT CATALOGUE - Amphenol Australia Pty Ltd +61 3 8796 8888

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

- 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 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.

Speaker Connectors

SP Series



SP SERIES

Amphenol's range of loudspeaker connectors have been further enhanced with the introduction of the SP Series. Designed to complement the popular EP/AP Series, we now offer a range of loudspeaker connectors to suit most applications. SP Series chassis connectors are available in industry standard PCB footprints with solder tabs. SP Series cable plugs are available with screw or solder terminals.

Features:

- Quick release, vibration resistant latch lock
- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals Chuck type or PG Gland cable clamp
- Various mounting hole options •
- 30A Current rating .
- Thermoplastic or Metal housing (Cable Plugs) • UL, cUL recognized components (File no. E339831) •
- Industry standard mating

Part Number Breakdown: Page 56 **Specifications: Page 60** PCB Footprints: Page 58 **Assembly Instructions: 59**

CONTACT SHELL **PRODUCT - FIGURE** DRAWING DESCRIPTION PART NUMBER Dimensions in mm (inches) TYPE COLOUR 2 pole, Cable connector, 87 Screw Black SP-2-F [3.43"] Thermoplastic shell, Blue sleeve Solder Black SP-2-FS [1.10"] ¢28 2 pole, Cable connector, SP-2-FG Screw Black 111 Thermoplastic shell, [4.36"] SP-2-FSG Solder Black Blue sleeve, PG Gland 1.09" ø28 2 pole, Cable connector, SP-2-FL Screw Black Thermoplastic shell, 179 Blue sleeve, PG Gland Solder SP-2-FSL Black strain relief 87 2 pole, Cable connector, SP-2-FN Screw Nickel [3.43"] Metal shell. Blue sleeve Solder Nickel SP-2-FNS Screw Black SP-2-FB [1.10"] ¢28 Solder SP-2-FBS Black 2 pole, Cable connector, SP-2-FNG Nickel Screw 111 Metal shell, Blue sleeve, [4.36"] PG Gland Solder Nickel SP-2-FNSG SP-2-FBG ¢28 1.09"] Screw Black Solder Black SP-2-FBSG 2 pole, Cable connector, Screw Nickel SP-2-FNL Metal shell, Blue sleeve, Solder Nickel SP-2-FNSL PG Gland strain relief SP-2-FBL Screw Black Solder Black SP-2-FBSL

Speaker Connectors SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT Type	SHELL Colour	PART NUMBER
	87 [3 4 3"] 87 10 10		4 pole, Cable connector,	Screw	Black	SP-4-F
			Solder	Black	SP-4-FS	
		111	4 pole, Cable connector,	Screw	Black	SP-4-FG
	+ [109"]		shell, Blue sleeve, PG Gland	Solder	Black	SP-4-FSG
6			4 pole, Cable connector,	Screw	Black	SP-4-FL
Same Control	Thermoplastic black shell, Blue sleeve, PG Gland strain relief	shell, Blue sleeve, PG Gland strain relief	Solder	Black	SP-4-FSL	
	87 [2/2"]		4 pole, Cable connector,	Screw	Nickel	SP-4-FN
				Solder	Nickel	SP-4-FNS
The second				Screw	Black	SP-4-FB
			Solder	Black	SP-4-FBS	
		111	4 pole, Cable connector, Metal shell Blue sleeve	Screw	Nickel	SP-4-FNG
		[4.36"]	PG Gland	Solder	Nickel	SP-4-FNSG
				Screw	Black	SP-4-FBG
				Solder	Black	SP-4-FBSG
		170	4 pole, Cable connector,	Screw	Nickel	SP-4-FNL
CENTRE STATE		[7.06"]	PG Gland strain relief	Solder	Nickel	SP-4-FNSL
A Company				Screw	Black	SP-4-FBL
				Solder	Black	SP-4-FBSL

Speaker Connectors SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
\$6.		282 (1)10'' (1	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
16.		25 (0099)	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
6 0.		255 (0098*) 255 255 255 255 255 255 255 25	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
6.		282 (1107) (1107) (1107) (01697) (01697) (01697) (01697)	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
6.		282 (111') (111') (169') (169') (169') (169') (169') (169') (169')	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
6		262 (1.10°) (1.10°) (1.10°) (0.169°) (0.169°) (0.169°)	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT
16		2.5 (0098')	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
60.	26.0 (1.024') 1.02 1.02 1.55 0.0 1.55 0.0 1.55 0.0 0.0 0.0 0.0 0.0 0.0 0.0	33.7 (1406') 96 (0.378') 96 (0.378') 95 (0.998') 96 (0.177']	4 pole, D flange, Thru holes, Solder tabs ¼"	Black	SP-4-MDQ

Speaker Connectors SP Series

PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
10		4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
10	260 (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024') (1024')	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
6	265 (1024') (1	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
0	260 (1043') (1043') (1043') (1043') (1043') (1043') (1043') (1043') (1043') (1043') (10136') (4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
0	260 (1024'] (1024'] (1024'] (1024'] (1024'] (1024'] (1015'') (1015'') (1015'') (1015'') (1015'') (1015'') (1015'') (1015'') (1015'')	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
0	598 (acr) 4-38 (acr) 4-38 (acr) 25 (2007) 4-38 (acr) 4-38 (ac	4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

						Ň	t.	IN YOUTS	at yours	at yours	at routs a a	A JOUTS A A ME
						alts PRET	alts PRET. MINC	THESPRET. WHET LA. WER	ats patt, station with the	ats part when the super strength	AS ART WAT ATER IL FINS MANATON	TESPET MALLATER CLIMSTON ASHLI
					ہے CI	çştîr.	str cor	SET COL SET	SET COT SET SH	SET COT SET SHU SET		SD A E N S C
				7			JF - 4 -					
E. G . SP-4-FNSG SP (Series Prefix), 4 S (Solder Terminals	contacts, F (Cable Conn	nector), N (Metal Shell Nickel Finish),									
		u)										
SERIES PREFIX	SP	=	Series Prefix]]]]				
CONTACT LAYOUT	2	=	2 Contacts] —]						
	4	=	4 Contacts									
GENDER	F	=	Cable Connector									
SHELL FINISH	Blank	=	Thermoplastic - Black									
	Ν	=	Metal - Nickel Finish									
	В	=	Metal - Black Finish									
TERMINATION	Blank	=	Screw Terminals									
	S	=	Solder Terminals									
BACKSHELL TYPE	Blank	=	Standard									
	G	=	PG Gland									
	L	=	PG Gland Strain Relief									
PACKAGING	Blank	=	Individual Bags									
	В	=	Bulk Packed									

PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

E. G . SP-4-MDHT-8B SP (Series Prefix),4 Circuit Board, Self	contacts, M(Tapping mour	Chassis Con nting holes -	nnector), D (D Shell), Horizontal Printed 8 (Grey), Bulk Packaged.
SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	М	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
	С	=	EP Series Circular flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	Q	=	Solder tabs - 1/4" terminals
	V	=	Vertical Printed Circuit Board
	н	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	т	=	Self Tapping
SHELL COLOUR	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	В	=	Bulk Packed

SP SERIES



SP SERIES PANEL CUTOUT



Speaker Connectors





Slide the nut onto the cable



Strip the cable and twist the conductors.



Install the cable clamp, flush to the insert making sure to align the slot as shown in the picture.



Orientate the insert and cable clamp as shown then push all together into the shell.



PI 1070

ASSEMBLY



Thread the nut onto the shell to activate the cable clamp and close the connector assembly.



Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a flat screwdriver with tip width of 2.5mm max.

SP Series

STANDARD DATA SP SERIES CONNECTORS

		VALUE		
GENERAL	Number of contacts	2 or 4		
CHARACTERISTICS	Termination (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"		
	Termination (Cable Plugs)	Screw or Solder Terminals		
	Flammability	UL94HB		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
ELECTRICAL	Service Voltage RMS	133V ¹⁾		
CHARACTERISTICS	Test Voltage AC RMS	1500V		
	Current carrying capacity	30A		
	Typical Contact Resistance	≤3mΩ		
	Insulation Resistance (initial)	≥2GΩ		
	Insulation Resistance (after damp heat test)	≥1GΩ		
CLIMATIC	Protection Class (Mated Condition)	IP20 (IP40)		
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)		
MECHANICAL	Weight** - Chassis Connectors	12g (0.026lb)		
CHARACTERISTICS	Weight** - Cable Plug - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	68g (0.150lb) 89g (0.196lb)		
	Typical Cable retention force	200N (Subject to cable material and 0.D.)		
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	2 pole 4 pole 5-10mm (0.19" - 0.39") 9-14mm (0.35" - 0.55") 6-12mm (0.23" - 0.47") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55") 9-14mm (0.35" - 0.55")		
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm² - 4mm² (AWG16 - AWG12) 1.5mm² - 6mm² (AWG16 - AWG10)		
MATERIALS	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black		
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30		
	Cable Boot / Backshell	Santoprene / PA6 GF 15		
	Cable Clamp (Chuck)	P.0.M		
	Cable Clamp (PG)	Polyemide / EPDM		
	Sleeve	PBT		
	Contact Chassis - Material / Plating Contact Cable Plug Material / Disting	Phosphor Bronze / Silver		
	- material / Plating	Brass / Silver		

**Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes. ¹Not suitable for domestic applications above 50V

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www.amphenolaudio.com

Speaker Connectors EP Series

Specifications: Page 64



EP SERIES

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 65

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			EP Male cable	3 pole nickel finish	EP-3-12
		^{\$28.5} ^{\$28.5} [\$1.13.	Machined contacts,	3 pole black finish	EP-3-12B
Care		4.0.[2.521"]		4 pole nickel finish	EP-4-12
	85.5 [.	3.366"]		4 pole black finish	EP-4-12B
A				5 pole nickel finish	EP-5-12
		19 -		5 pole black finish	EP-5-12B
	PIN INSULA		BLE CLAMP BUSHING	6 pole nickel finish	EP-6-12
ISO ASSEMBLY OF			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
80		©288 © 0585 © 0585	Machined contacts, Metal Shell	3 pole black finish	EP-3-11PB
				4 pole nickel finish	EP-4-11P
	66.8 [2.63 [*]] → 88.0 [3.465 [*]] →			4 pole black finish	EP-4-11PB
				5 pole nickel finish	EP-5-11P
ISO ASSEMBLY OF			·	5 pole black finish	EP-5-11PB
	DIN INSU	JLA TOR _ SHELL	CLAMP-BUSHING	6 pole nickel finish	EP-6-11P
				6 pole black finish	EP-6-11PB
EP FEMALE				8 pole nickel finish	EP-8-11P
	K KAR		8 pole black finish	EP-8-11PB	

Speaker Connectors EP Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis	3 pole nickel finish	EP-3-14
		Machined contacts,	3 pole black finish	EP-3-14B
			4 pole nickel finish	EP-4-14
- 10			4 pole black finish	EP-4-14B
2			5 pole nickel finish	EP-5-14
			5 pole black finish	EP-5-14B
0			6 pole nickel finish	EP-6-14
	م م 50.8 [92"] م الم م 50.8 [92"] م الم م 50.8 [92"] م الم 1.252"] م ا		6 pole black finish	EP-6-14B
			8 pole nickel finish	EP-8-14
			8 pole black finish	EP-8-14B
		EP Female chassis	3 pole nickel finish	EP-3-13P
		Machined contacts, Metal Shell	3 pole black finish	EP-3-13PB
	<mark>∼~~</mark> 7.5 (.295')		4 pole nickel finish	EP-4-13P
20			4 pole black finish	EP-4-13PB
100.			5 pole nickel finish	EP-5-13P
(· ·/ ·			5 pole black finish	EP-5-13PB
			6 pole nickel finish	EP-6-13P
	Ø50.8 [2 ⁺] → 36.5 [1.438 ⁺] →		6 pole black finish	EP-6-13PB
			8 pole nickel finish	EP-8-13P
			8 pole black finish	EP-8-13PB



AP SERIES

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 64

Panel Cutouts: Page 65

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AP Male cable	4 pole	AP-4-12
and the second		Sec 28.8 [1135*]	Machined contacts,	5 pole	AP-5-12
B			Black shell.	6 pole	AP-6-12
	100.0 [3.937*]	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		8 pole	AP-8-12
			AP Female cable	4 pole	AP-4-11
10000		Ø28.8	Machined contacts,	5 pole	AP-5-11
(63)			Black shell.	6 pole	AP-6-11
	98.7 [3.886*]	ed		8 pole	AP-8-11
			AP Male	4 pole	AP-4-14
		22.4 [el.276	Round Flange, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-14
		² - ↓ ↓ 2.8 [.11 ⁷] - ↓ ↓ 2.8 [.11 ⁷] - ↓ ↓ 2.8 [.12 ⁷] - ↓ ↓ 3.1.8 [1.22 ⁷] →		6 pole	AP-6-14
	P50.8 [2 [−]]			8 pole	AP-8-14
	C 0 0 0	* 2 [295"] (225") (2	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell	4 pole	AP-4-13
200				5 pole	AP-5-13
				6 pole	AP-6-13
	لمــــــــــــــــــــــــــــــــــــ			8 pole	AP-8-13
			AP Male	4 pole	AP-4-22
16.00		2.4 [e1.276	Rectangular Flange, Machined contacts	5 pole	AP-5-22
			Thermoplastic Black shell	6 pole	AP-6-22
Concerned and	→-29.2 [1.148"]			8 pole	AP-8-22
50			AP Female chassis mount	4 pole	AP-4-21
° (~ °)	11 11 11 11 11 11 11 11 11 11 11 11 11	2.4 [61.276]	Rectangular Flange,	5 pole	AP-5-21
.			Thermoplastic Black shell	6 pole	AP-6-21
The second	40.0 (1.575 [°])			8 pole	AP-8-21

STANDARD DATA EP/AP

				VALUE					
GENERAL	Number of contacts	3	4	5	6	8			
CHARACTERISTICS	Contact Arrangements (Front view of pin insert)	↓ 3 ↓ 2 ↓ 2							
	Termination			SOLDER					
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG			
	Flammability			UL94V-0					
	Environmental		Complies with	EU RoHS 2 Directi	ve 2011/65/EU				
ELECTRICAL	Service Voltage RMS ¹⁾	460V	660V	200V	200V	100V			
GHANAGIENISTICS	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	Protection Class	IP40							
CHANACIENISTICS	Operating Temperature		-25°C to	o +75°C (-13°F to	+167°F)				
MECHANICAL	Weight - EP 11 & 12 ²⁾	80g	84g	86g	86g	86g			
CHARACTERISTICS		(0.176lb)	(0.185lb)	(0.189lb)	(0.189lb)	(0.189lb)			
	Weight - EP 13 & 14 ²⁾	48g	50g	54g	54g	54g			
		(0.105lb)	(0.110lb)	(0.119lb)	(0.119lb)	(0.119lb)			
	Weight - AP 11 & 12 ²⁾	N/A	42g	44g	44g	44g			
			(0.092lb)	(0.097lb)	(0.097lb)	(0.097lb)			
	Weight - AP 13, 14, 21 & 22 ²⁾	N/A	26g	30g	30g	28g			
			(0.057lb)	(0.066lb)	(0.066lb)	(0.061lb)			
	Typical Cable retention force	22Kg to	44Kg (50lb to 100	lb) - Dependant on	cable material and	diameter			
	Mechanical operations			1000 mating cycle	S				

Rev 3 - 03/2013

 $^{\scriptscriptstyle 1)}$ 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 EP/AP (CONT'D)

		DET	AILS
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 / I	Bright Tin
CLAMPING	Cable OD Range	11mm to 17mm	9mm to 16mm
CHAKALIEKISIILS		(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



PRODUCT SAFETY INFORMATION

This should be read in conjunction with Data Sheet information contained in individual product brochures. Failure to observe the advice in this information sheet and the operating conditions specified in the Data Sheets could result in hazardous situations.

1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5

V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

Important General Information

A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.

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