

Amphenol



This range has been specially designed for amplifier to loudspeaker connections. The polarity configuration being POSITIVE, DRAIN, NEGATIVE. Visual color coding insert with matching boot/backshell (blue or white) can be used for either channel selection and/or cable identification purposes. AC-PDN 11 & 31 are recommended for live source applications (amplifiers). AC-PDN 12 & 34 are recommended for load applications (speakers).

Features:

- Solder Bucket connections.
- Thermoplastic Shells
- Designed for 25 Amps RMS usage.
- "Jaws" Cable Retention System, Max. Cable O.D. 8mm (0.351")
- Precision machined contacts accept up to 4mm² (12AWG) conductors.
- Quick and easy assembly – by hand or portable termination tool (Part Number T2860.)

Options: White or Blue housing and insert colour. Std. Jaws cable clamp.

Specifications: Page 52


Panel Cutouts: Page 26

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		PDN male, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	AC-PDN-12-BLU
			White housing	AC-PDN-12-WHT
		PDN female, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	AC-PDN-11-BLU
			White housing	AC-PDN-11-WHT
		PDN male, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	AC-PDN-34-BLU
			White housing	AC-PDN-34-WHT
		PDN female, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	AC-PDN-31-BLU
			White housing	AC-PDN-31-WHT



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STANDARD DATA AC-PDN CONNECTORS

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	2+ Drain	
	PDN Contact Arrangement (Front View of Socket & Pin Insert)		
	Termination	Solder	
	Max. Wire Gauge - Stranded wire:		
	Power	12AWG	
	Drain	19AWG	
	Flammability rating of plastics	UL94V-0	
Environmental	Complies with RoHS Directive 2002/95/EC		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V ¹⁾	
		NOTE: Do not use this series of connectors for mains applications. The drain contact dimensions make it unsuitable for use as an earth contact.	
	Test Voltage AC RMS	1400V	
	Current carrying capacity:	7.5A	
	Typical Contact Resistance	≤ 3mΩ	
Insulation Resistance	≥ 1GΩ		
CLIMATIC CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)	
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥ 10N - ≤ 30N	
	Weight - Thermoplastic ²⁾	19g (0.041lb)	
	Typical Cable Retention Force	22Kg to 44Kg (50lb to 100lb)	
	Cable O.D. Range - JAWS Clamp	6.5 mm to 8mm (0.255" to 0.314") - Standard 3 mm to 6.5 mm (0.118" to 0.255") - Optional - Contact us	
	Mechanical Operations	1000 mating cycles	
MATERIALS	Connector Shell	Thermoplastic, UL94V-0 Modified PPE Resin	
	Shell Colour	Black	
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin	
	Contact	Brass	
	Contact Plating	Silver or Gold (optional)	

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.