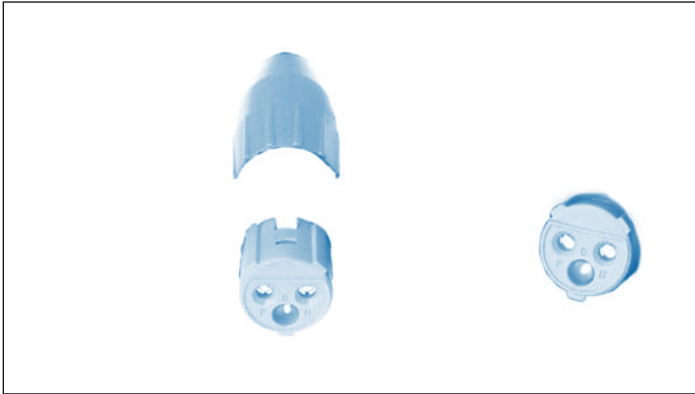


# Amphenol



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 4mm<sup>2</sup> (12AWG) conductors.
- Quick and easy assembly – by hand or portable termination tool (Part Number T2860.)


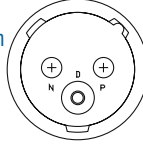
**Options:** White or Blue housing and insert colour. Std. Jaws cable clamp.  
**Specifications:** [Page 72](#) [Panel Cutouts:](#) [Page 33](#)

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  White housing	AC-PDN-12-BLU  AC-PDN-12-WHT
		PDN female, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing  White housing	AC-PDN-11-BLU  AC-PDN-11-WHT
		PDN male, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing  White housing	AC-PDN-34-BLU  AC-PDN-34-WHT
		PDN female, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing  White housing	AC-PDN-31-BLU  AC-PDN-31-WHT



# Amphenol

## STANDARD DATA AC-PDN CONNECTORS

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	2+ Drain
	PDN Contact Arrangement (Front View of Socket & Pin Insert)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Socket</p> </div> <div style="text-align: center;">  <p>Pin</p> </div> </div>
	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	
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup> <b>NOTE:</b> 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
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N
	Weight - Thermoplastic <sup>2)</sup>	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
<b>MATERIALS</b>	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)

<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.

# Mouser Electronics

Authorized Distributor

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## Amphenol:

[AC-PDN-12-WHT](#) [AC-PDN-12-BLU](#) [AC-PDN-31-WHT](#) [AC-PDN-31-BLU](#) [AC-PDN-11-BLU](#) [AC-PDN-11-WHT](#) [AC-PDN-34-BLU](#) [AC-PDN-34-WHT](#)