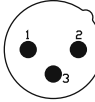
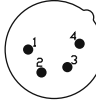
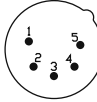
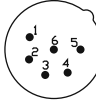
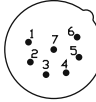


# Amphenol

## STANDARD DATA AC CABLE CONNECTORS



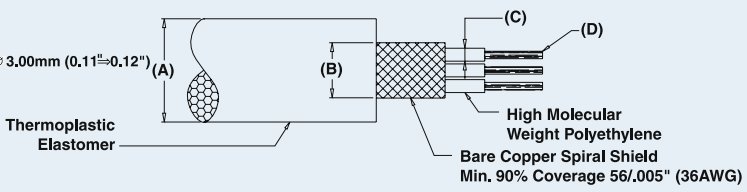
		VALUE				
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5	6A	7
	AC Series Contact Arrangements (Front view of pin inserts)					
	Termination	IDC / SOLDER	SOLDER	SOLDER	SOLDER	SOLDER
	Max. Wire Gauge - Stranded wire:					
	IDC	24AWG	N/A	N/A	N/A	N/A
	Solder	14AWG	16AWG	18AWG	18AWG	20AWG
	Flammability rating of insulator plastics and housings	UL94V-0				
Environmental	Complies with RoHS Directive 2002/95/EC					
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup>				
	Test Voltage AC RMS	1400V				
	Current carrying capacity:					
	IDC	1A	N/A	N/A	N/A	N/A
	Solder	15A	10A	7.5A	7.5A	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 - Metal <sup>2)</sup>	36g (0.080lb)	37g (0.081lb)	38g (0.083lb)	38g (0.083lb)	38g (0.083lb)
	Weight - Thermoplastic <sup>2)</sup>	18g (0.039lb)	19g (0.041lb)	20g (0.044lb)	20g (0.044lb)	20g (0.044lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.				
	Cable O.D. range - JAWS clamp					
	IDC	Max. Cable O.D. 5.85mm (0.23")				
	Standard solder	3mm to 6.5mm (0.118" to 0.255")				
	Large Solder	6.5mm to 8mm (0.255" to 0.314")				
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.

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## STANDARD DATA AC CABLE CONNECTORS

		DETAILS
MATERIALS	Connector shell - Metal	Diecast Zinc Alloy
	Shell finish	Satin nickel or Black polyester
	Connector shell - Thermoplastic	Thermoplastic, UL94V-0 Modified PPE Resin
	Shell finish	Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Boot / Backshell	UL94V-0 Modified PPE Resin or Machined Brass
	Finish	Black, other colours available - see page 80
	Cable clamp	
	IDC Socket JAWS	UL94V-0 Modified PPO Resin (Pink)
	IDC Pin JAWS	UL94V-0 Modified PPO Resin (Blue)
	Standard Solder JAWS	UL94V-0 Modified PPO Resin (Black)
	Large Solder JAWS	UL94V-0 Modified PPO Resin (Purple)
	Cable Bushing	Santoprene
	Male Contact	
Stamped - IDC / Plating	Phosphor Bronze / Silver or Gold (Optional)	
Stamped - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional)	
Machined - Solder / Plating	Brass / Silver or Gold (Optional)	
Female Contact		
Stamped - IDC / Plating	Phosphor Bronze / Tin or Gold (Optional)	
Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)	
Machined - Solder / Plating	Brass / Silver or Gold (Optional)	
IDC RECOMMENDED CABLE DIMENSIONS	 <p>                     A - Cable O.D.: Max. <math>\varnothing</math> 5.85mm (0.23")                      B - Bare Copper Spiral Shield OD <math>\varnothing</math> 2.75 <math>\Rightarrow</math> <math>\varnothing</math> 3.00mm (0.11" <math>\Rightarrow</math> 0.12")                      C - OD <math>\varnothing</math> 1.30 <math>\Rightarrow</math> <math>\varnothing</math> 1.50mm (0.05" <math>\Rightarrow</math> 0.06")                      D - 16/.005" (24 AWG stranded wire)                 </p> <p>                     Thermoplastic Elastomer                      High Molecular Weight Polyethylene                      Bare Copper Spiral Shield                      Min. 90% Coverage 56/.005" (36AWG)                 </p>	

