

Amphenol®



UPT Connector Series

Company Overview

Manufacturing connectors since 1932, we take pride that Amphenol Industrial Operations is the undisputed leader in interconnect systems for harsh environment applications. Such applications require a high degree of engineering sophistication and precision manufacturing capability. Innovations like our RADSOK® contact technology can provide roughly 50% more current through the same size pin. Connectors utilizing this RADSOK® technology will outperform similar products in the market hands down.

Amphenol Industrial Operations (AIO), a division of the Amphenol Corporation, is the leading manufacturer of cylindrical connectors in the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Headquartered in Sidney, NY, AIO's facility is nestled at the foothills of the Catskill Mountains, and over 307,000 ft². This complex houses over 1,000 employees, incorporating state-of-the-art manufacturing technologies. The facility is both ISO9001 certified and qualified to MIL-STD-790 requirements. Other satellite manufacturing/assembly facilities are located in Nogales, Mexico (25,000 ft²) and Zhuhai, China with (276,000 ft²).

Our manufacturing capabilities include state-of-the-art CNC machining, die-casting, molding, impact and extruding, plating, screw machining and process controls.

AIO also has a fully equipped material evaluation lab and an engineering support organization utilizing the latest in computer aided design software and analysis tools.

Amphenol Industrial Operations is supported by several satellite plants and one of the largest distributor networks in the world.

The markets and application for the UPT connectors included but are not limited to the following:

- Heavy Equipment
- EV, HEV, BMS
- Automation & Robotics
- Telecom Equipment
- Servo Motor
- Machinery



The UPT Connector Series

Amphenol Industrial has expanded its PT Series product line with a new plastic bayonet connector. The UPT provides more options for industrial interconnect markets that do not require a metal shell or Mil-Spec equivalents.

Based on the 26482 Series I, UPT is a plastic shell interconnect with a metal bayonet coupling system and crimp contacts. Featuring a light weight design, smaller footprint and easy field installation the UPT is a cost effective industrial connector solution.

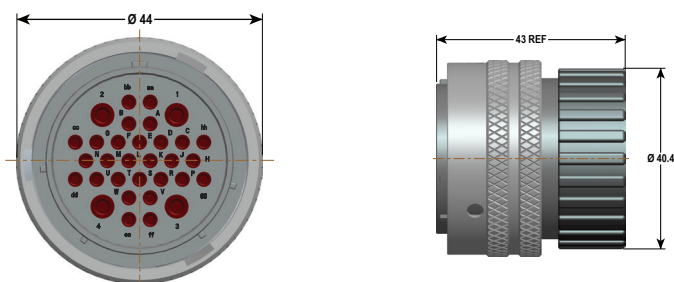
- Contact Sizes and Arrangements: 12 & 16 Stamped & Formed crimp contacts, three insert arrangements available (16-19, 24-32, & 24-48)
- Intermateable with Souriau TrimTrio, UTO, and ITT Trident Ringlock
- Wall Mount, Jam Nut, and Straight Plug Shell Styles
- Plastic Shell, Light Weight
- Metallic Bayonet Coupling, Molded Ring on Receptacle
- Quick Connect/Disconnect
- Multiple backshell sealing accessories
- RoHS compliant



Technical Data		
Rated Current	Contact #16	13 Amps
Rated Current	Contact #12	23 Amps
Operating Voltage		250VAC
Withstanding Voltage		2000V DC
Insulation Resistance		5000 Megohms Min.
Operating Temperature		-55°~+125°
Ingress Protection		IP67(Mated)
Flammability		UL 94 V-0
Durability		500 Cycles

UPT06D-24-32S

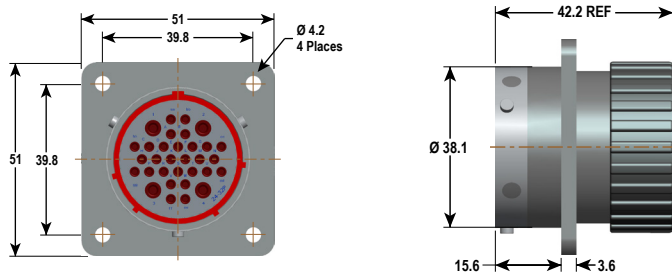
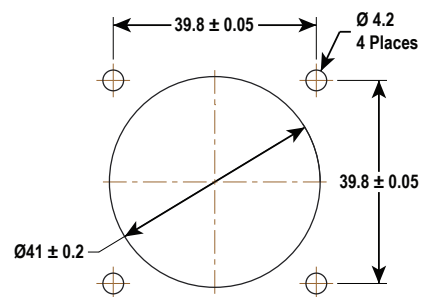
Size 24, 32 Way, Plug

**Front Face of Pin Illustrated**

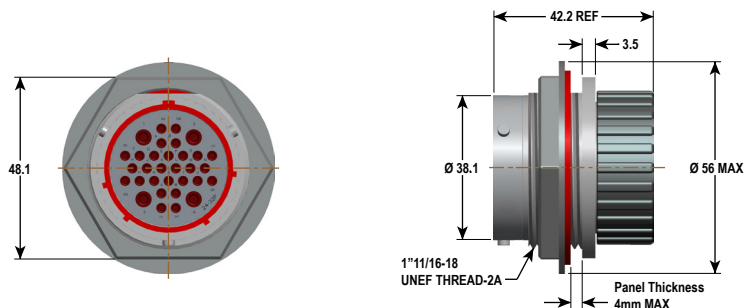
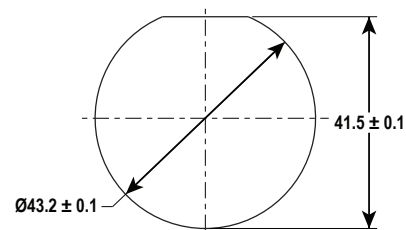
Insert Arrangement	24-32	
Number of Contacts	4	28
Contact Size	12	16

UPT00D-24-32P

Size 24, 32 Way, Wall Mounting Receptacle

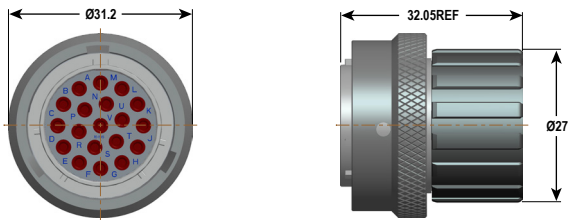
**Recommended Cut-Out****UPT07D-24-32P**

Size 24, 32 Way, Jam Nut Receptacle

**Recommended Cut-Out**

UPT06D-16-19S

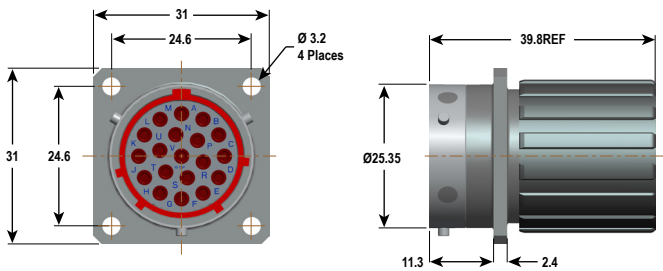
Size 16, 19 Way, Plug



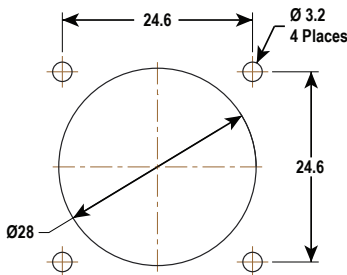
Front Face of Pin Illustrated	
Insert Arrangement	16-19
Number of Contacts	19
Contact Size	16

UPT00D-16-19P

Size 16, 19 Way, Wall Mounting Receptacle

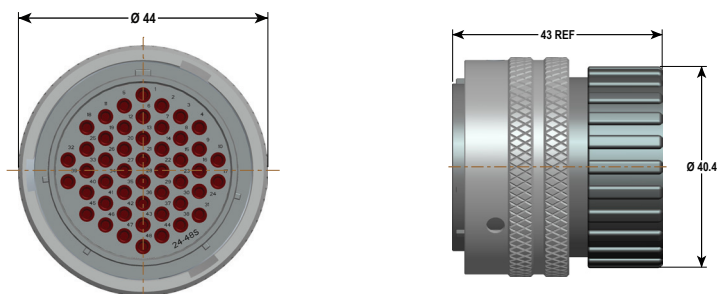


Recommended Cut-Out



UPT06D-24-48S

Size 24, 48 Way, Plug

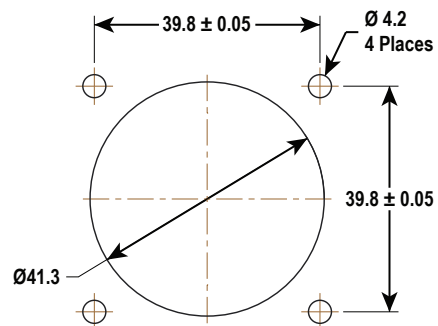
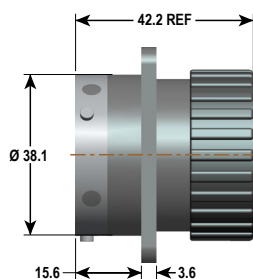
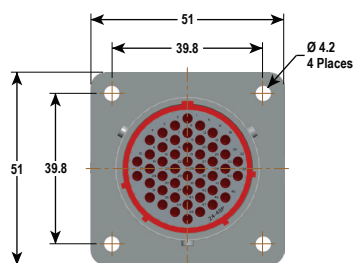


Front Face of Pin Illustrated

Insert Arrangement	24-48
Number of Contacts	48
Contact Size	16

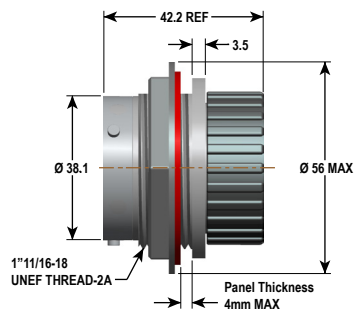
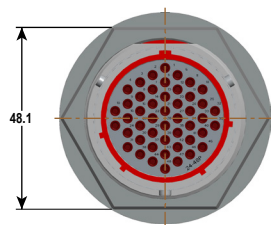
UPT00D-24-48P

Size 24, 48 Way, Wall Mounting Receptacle

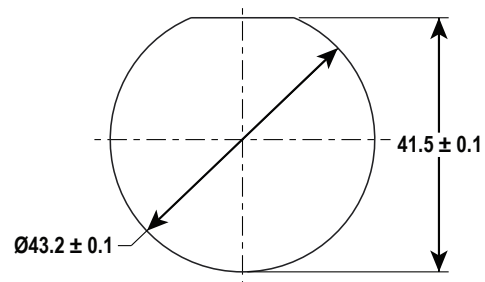


UPT07D-24-48P

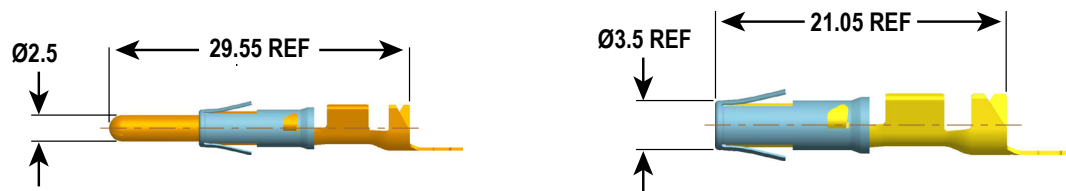
Size 24, 48 Way, Jam Nut Receptacle



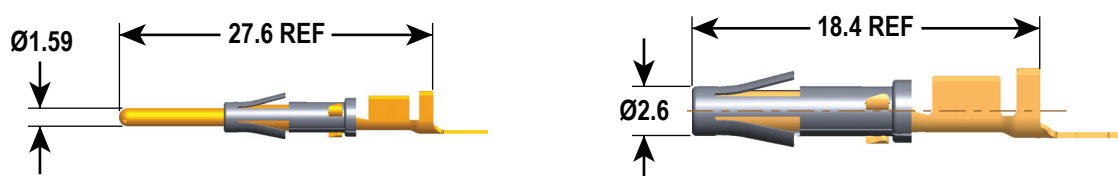
Recommended Cut-Out



Size 12 contact profile



Size 16 contact profile



Contact part number and quantity per reel

C10-731535-161R	SOCKET CONTACT,SIZE 16, crimp 16AWG, Tin plating (3000 contacts per reel)
C10-731536-201R	SOCKET CONTACT,SIZE 16, crimp 20AWG, Tin plating (3000 contacts per reel)
C10-731535-163R	SOCKET CONTACT,SIZE 16, crimp 16AWG, Gold plating (3000 contacts per reel)
C10-731536-203R	SOCKET CONTACT,SIZE 16, crimp 20AWG, Gold plating (3000 contacts per reel)
C10-731537-161R	PIN CONTACT,SIZE 16, crimp 16AWG, Tin plating (3000 contacts per reel)
C10-731538-201R	PIN CONTACT,SIZE 16, crimp 20AWG, Tin plating (3000 contacts per reel)
C10-731537-163R	PIN CONTACT,SIZE 16, crimp 16AWG, Gold plating (3000 contacts per reel)
C10-731538-203R	PIN CONTACT,SIZE 16, crimp 20AWG, Gold plating (3000 contacts per reel)
C10-737341-121R	Pin contact size 12, crimp 12 AWG, Tin plating (1000 contacts per reel)
C10-737343-121R	Socket contact size 12, crimp 12 AWG, Tin plating(1000 contacts per reel)

How to order:

Product Series	Connector Type	Shell Type	Insert Pattern		Contact	Cross Mating Proof		Shell Plating		Black Shell	
			Shell Size	Contact Arrangement							
UPT	00 Wall mounting receptacle	M Metal Shell	10	4 Size 16 Contacts	P Pin	Omit	Normal Key	Omit	Nickel plating 48H salt spray	Omit	With grommet and nut
	06 Plug	D Dielectric Shell (Plastic)	12	8 Size 16 Contacts	S Socket	W	Key/W	1	Black Zinc plating 96H salt spray	N	No rear accessory
	07 Jam nut receptacle		14	12 Size 16 Contacts		X	Key/X	2	Tin plating 720H salt spray for die casting shell		
			16	19 Size 16 Contacts		Y	Key/Y		(Zinc-Nickel plating only for aluminum alloy coupling nut)		
			18	23 Size 16 Contacts		Z	Key/Z				
			22	35 Size 16 Contacts							
			24	48 Size 16 Contacts							
			24	32 (4 Size 12 + 28 Size 16 Contacts)							



AMPHENOL CORPORATION
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