# **Amphenol**<sup>®</sup>



**UPT Connector Series** 

www.amphenol-industrial.com

## Amphenol

### **Company Overview**

Manufacturing connectors for over eight decades, we take pride that Amphenol Industrial Operations (AIO) 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<sup>®</sup> contact technology can provide up to 50% more current through the same size pin. Connectors utilizing this RADSOK<sup>®</sup> technology will outperform similar products in the market hands down.

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

Amphenol Industrial's Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet. 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.

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.

Our global manufacturing facilities include locations in Sidney, NY, Fraser, MI, Shenzhen and Zhuhai, China, Winnipeg, Canada, and Nogales, Mexico.

### **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, two insert arrangements available (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

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





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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	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**



# Amphenol

Size 24, 32 Way, Pin Contact









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 24, 48 Way, Pin Contact



	Туре		Shell Type		Insert Pattern Shell Contact Size Arrangement				0.00					
Product Series							Contact		Cross Mating Proof		Shell Plating		Black Shell	
UPT	00	Wall mounting receptacle	м	Metal Shell	10	4 Size 16 Contacts	Ρ	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			х	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)								

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