Amphenol

PPS

Push Pull Series



The PPS is a miniature connector with push pull technology. It is designed for use on equipment that is not submersed or left exposed to the elements for prolonged periods, within Industrial and Ground Harsh Environment applications. To mate, the plug is pushed onto the receptacle. The connector is locked in its rest position and is released by pulling back the coupling nut.

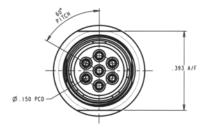
The PPS has a small outside diameter and several inserts are available, including high-density insert arrangements. The plugs can be fitted with EMC grounding fingers for increased screening effectiveness. Amphenol Ltd offers full cable harness solutions with overmoulding capabilities or, where preferred, a heat shrink boot can be used.

The plug has a black silver body and backshell with a black zinc cobalt plated coupling nut. Other plating finishes are available and all are chemical and NBC resistant. Receptacles are available in black zinc cobalt as standard. All metalwork is machined from brass for increased mating durability.

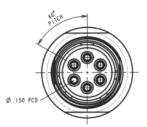
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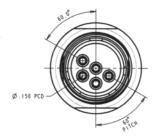
RECEPTACLES - SOCKET CONTACTS ONLY



FRONT FACE VIEW PPS 7 WAY



FRONT FACE VIEW PPS 6 WAY



FRONT FACE VIEW PPS 5 WAY



REAR FACE VIEW PPS 7 WAY

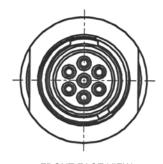


REAR FACE VIEW PPS 6 WAY

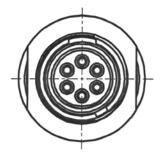


REAR FACE VIEW PPS 5 WAY

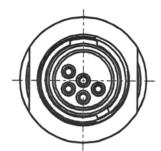
PLUGS - PIN CONTACTS ONLY



FRONT FACE VIEW PPS 7 WAY



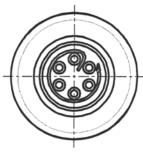
FRONT FACE VIEW PPS 6 WAY



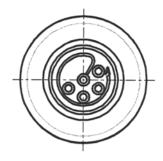
FRONT FACE VIEW PPS 5 WAY



REAR FACE VIEW PPS 7 WAY



REAR FACE VIEW PPS 6 WAY



REAR FACE VIEW PPS 5 WAY

Insert Availability / Specifications

INSERT AVAILABILITY						
05-05 5 # 22 AWG Contacts						
05-06	6 # 22 AWG Contacts					
05-07	7 # 22 AWG Contacts					

CONTACT SPECIFICATIONS								
Contact Resistance	5 mΩ initially	Less than 10 mΩ						
Shell to Shell Conductivity	5 mΩ initially	Less than 10 mΩ						

INSERT SPECIFICATIONS							
Contact Arrangement	05-05 / 05-06 / 05-07						
Working Voltage (Sea Level)	115 Vac						
DWV (Sea Level)	500 Vac						
Insulation Resistance (Sea Level)	1GΩ @ 500 Vdc						
Current Rating (Individual Contact)	3A						
Current Rating (all Contacts Simultaneously)	1A						

ENVIRONMENTAL						
Temperature	-55°C / +85°C					
Salt Spray	500 hours subject to selected plating finish					
Fluids	As per MIL-C-26482 Series I					
Vibration and Shock	MIL-C-26482 Series I					
Sealing	IP67 Unmated Bulkhead Connectors					
	IP64 Mated Pair Interface					

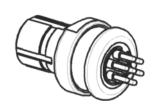
MECHANICAL						
Durability	1000 Matings					
Materials	Shell : Brass – See Part No. information for plating options					
Contacts : Turned, Gold Plated						
	Inserts and Seal : Proprietary Thermoplastic Polyester Elastomer					

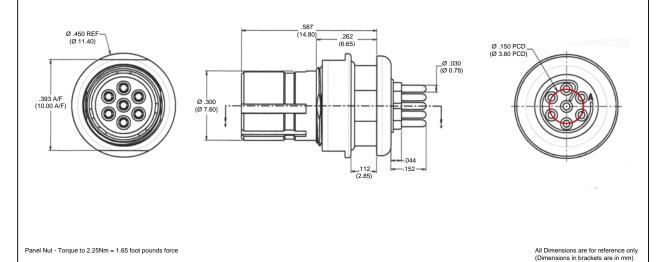
Table of Styles - Receptacles

PPS-07A05-XXSX-001

Jam Nut Receptacle PCB Contacts

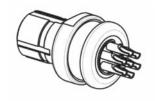






PPS-07A05-XXSX-002

Jam Nut Receptacle Solder Bucket Contacts





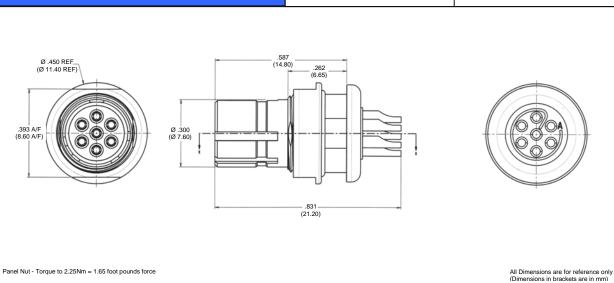


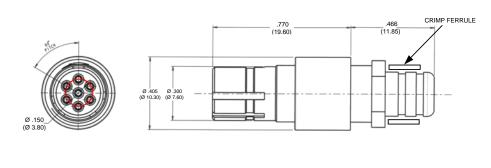
Table of Styles - Receptacles

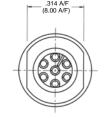
PPS-01T05-XXSX-002

In Line Receptacle Solder Bucket Contacts









All Dimensions are for reference only (Dimensions in brackets are in mm)

PPS-02T05-XXSX-002

2 Hole Mounting Receptacle Solder Bucket Contacts





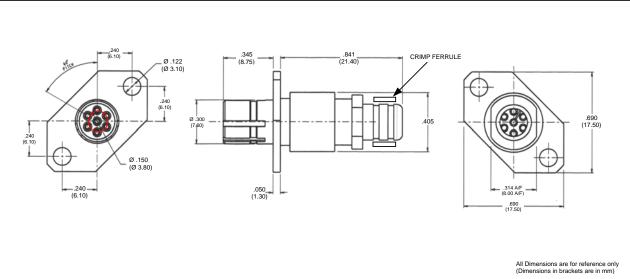
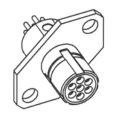


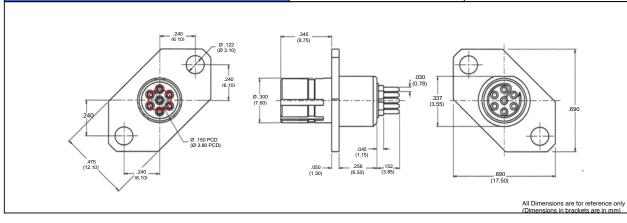
Table of styles - Receptacles

PPS-02A05-XXSX-001

2 Hole Panel Mount Receptacle Pin Tail Contacts



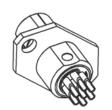


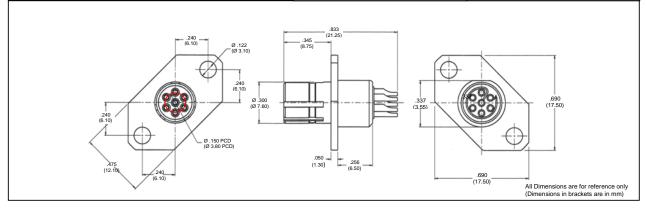


PPS-02A05-XXSX-002

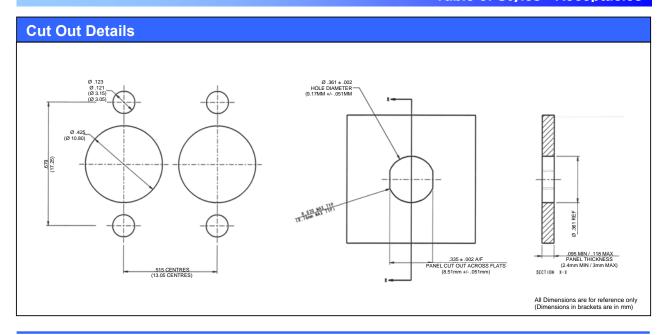
2 Hole Panel Mount Receptacle Solder Bucket Contacts

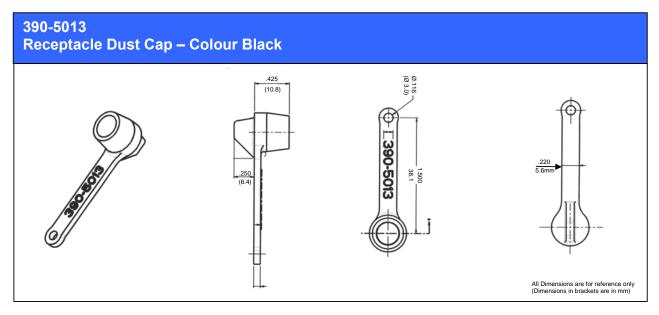


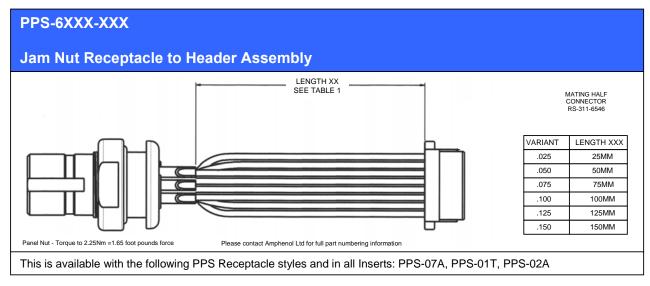




390-0122-01 2 Hole Panel Mount Receptacle Gasket Used on PPS-02T and PPS-02A All Dimensions are for reference only (Dimensions in brackets are in mm)





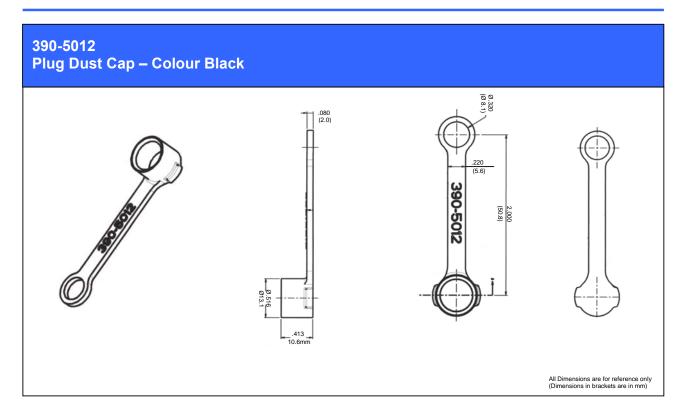


3.2mm O.D.

PPS-06T05-XXPX-XXX Non Grounded Plug complete with **Backshell and optional Crimp Ferrule** .775 (19.75) TABLE 1 PART NUMBER MAX. CABLE DIAMETER FOR FERRULE PPS-06T05-XXPX-001 PPS-06T05-XXPX-002 STRAIGHT FERRULE .001 (SEE TABLE 1 FOR SIZES) TAPERED FERRULE .002 (SEE TABLE 1 FOR SIZES) PPS-06T05-XXPX-003 3.2MM All Dimensions are for reference only (Dimensions in brackets are in mm) **Ferrule** Max. Cable Diameter **Options for Black Zinc Cobalt Plated** 001 Parallel Ferrule 5.6mm O.D. 002 Taper Ferrule 4.3mm O.D.

For Crimp Tool details, please refer to the back of this catalogue.

003

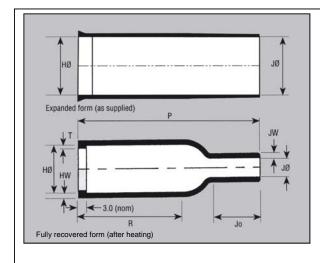


Taper Ferrule

For use with PPS-06T and PPS-06TG Plugs and PPS-01T In Line Receptacles

We have selected Heatshrink Boots from Hellermann Tyton. Heatshrink Boots from other manufacturers may be used if appropriate.

100 Series - Bottle Shapes with Rib - MIL Style

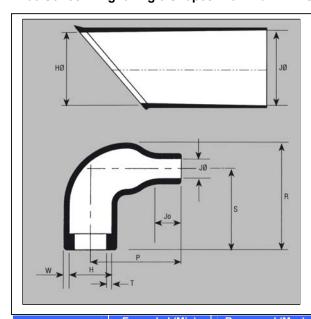


This style is used in conjunction with the backshell (see page 8), providing strain relief and environmental sealing

Dimensions apply to all materials unless otherwise indicated and dimensions in brackets are in mm

	Expanded (Min)				Recove	red (Max)	Recovered Dimensions Fully Shrunk					
Hellermann Part No	H	H -H matl	Jø	J -H matl	Н	Jø	P ±10%	R ±10%	Jo ±10%	HW ±10%	JW ±10%	T ±10%
113-4-G-WM250	0.3976 (10.7)	0.3976 (10.7)	0.1811 (4.6)	0.1811 (4.6)	0.3110 (7.9)	(0.0787) (2.0)	1.0 (25.4)	0.5709 (14.5)	0.1811 (4.6)	0.0512 (1.3)	0.0512 (1.3)	0.0394 (1.0)

1100 Series - Right Angle Shapes with Rib - MIL Style

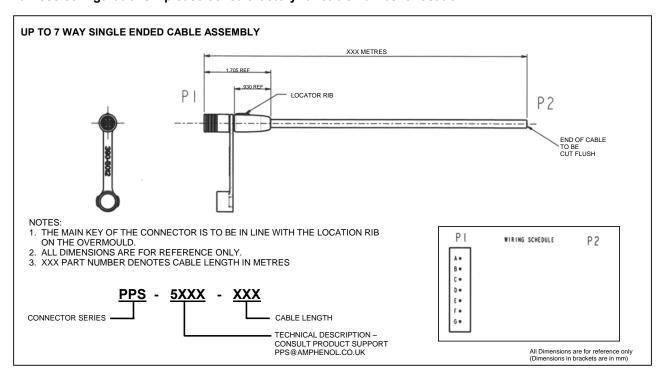


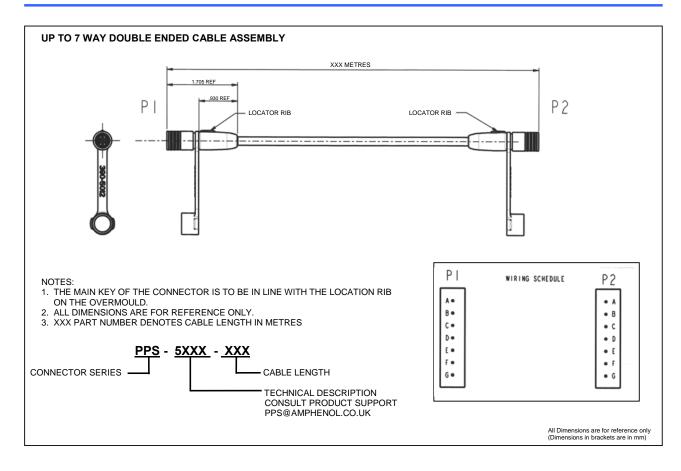
The style provides strain relief for harness systems when used in conjunction with the backshell (see page 8)

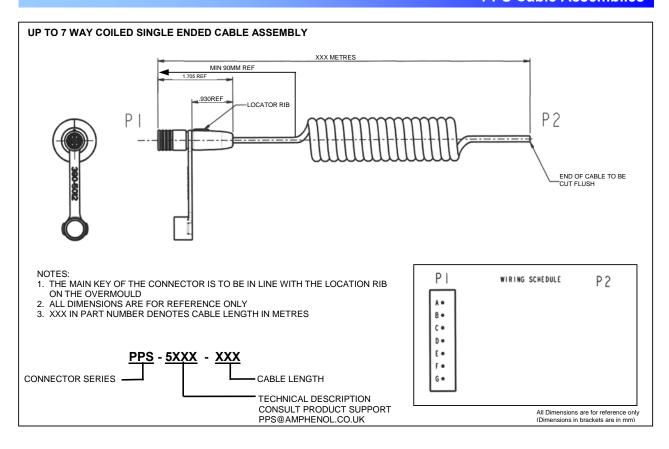
Dimensions apply to all materials unless otherwise indicated and dimensions in brackets are in mm

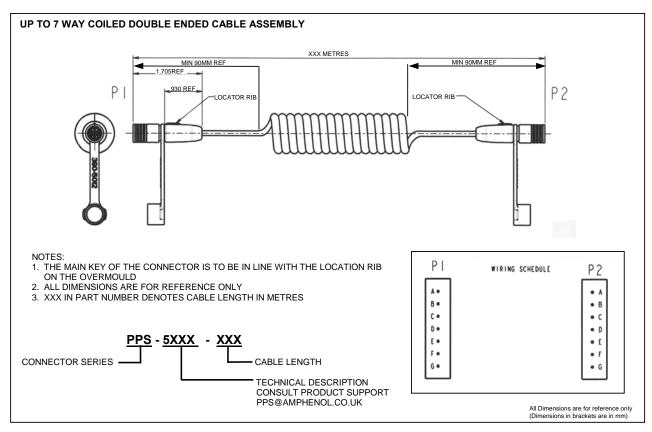
	Expand	iea (iviiri)	Recover	ea (iviax)	Recovered Dimensions Fully Shrunk						
Hellermann Part No	Н	JØ	н	JØ	P ±10%	R ±10%	S ±10%	Jo ±10%	W ±20%	T ±20%	
1108-4-G-WM250	0.6496 (16.5)	0.6496 (16.5)	0.3110 (7.9)	0.1496 (3.8)	0.6875 (17.3)	0.7969 (20.1)	0.6005 (15.2)	0.1614 (4.1)	0.0394 (1.0)	0.0394 (1.0)	

Amphenol Ltd can supply complete overmoulded cable harness solutions to your specifications. Detailed below are some examples of what would be available on request. The following templates are of common harness configurations – please consult factory for cable number allocation

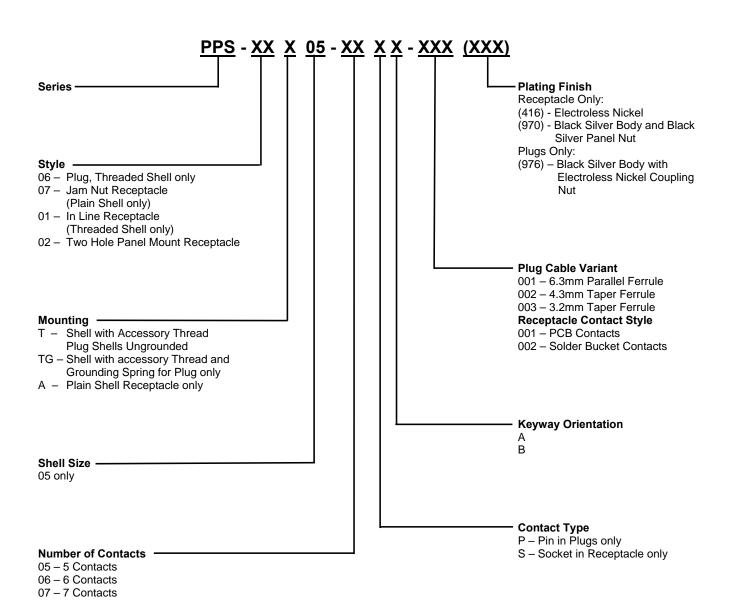








Any Cable Assembly Part Number will be issued at quotation or order placement stage by Amphenol Ltd only. For more details please consult the factory.



STANDARD PLATING

Plugs

Omit Deviation - Black Silver Plated Body and Backshell with Black Zinc Cobalt Coupling Nut

Receptacles

Omit Deviation - Black Zinc Cobalt Body and Black Zinc Cobalt Panel Nut (where applicable)

For Braid Termination Style 003

Crimp the Braid into place so that the ferrule butts up against the shoulder of the backshell. Use crimp tool Daniels HX4 M22520/5-01 handle, crimp die set Daniels Y530 CAGE 11851 at setting 180.





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