Amphenol

PPS

Push Pull Series



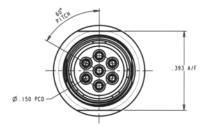
The PPS is a miniature connector with push pull technology and RoHS compliant. It is designed for use on equipment that is not submersed or left exposed to the elements for prolonged periods, within Industrial and Ground Harsh Environment applications. To mate, the plug is pushed onto the receptacle. 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.

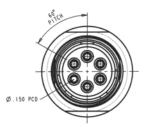
The plug has a black silver body and backshell with a black coupling nut. Other plating finishes available are electroless nickel and both are chemical and NBC resistant. Receptacles are available in black silver plating as standard and electroless nickel. All metalwork is machined from brass for increased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



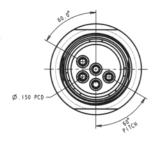
RECEPTACLES - SOCKET CONTACTS ONLY



FRONT FACE VIEW PPS 7 WAY



FRONT FACE VIEW PPS 6 WAY



FRONT FACE VIEW PPS 5 WAY



REAR FACE VIEW PPS 7 WAY

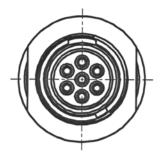


REAR FACE VIEW PPS 6 WAY

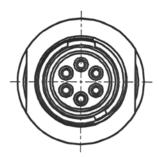


REAR FACE VIEW PPS 5 WAY

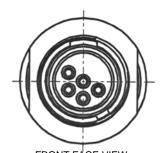
PLUGS - PIN CONTACTS ONLY



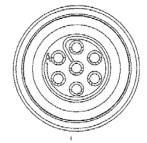
FRONT FACE VIEW PPS 7 WAY



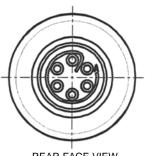
FRONT FACE VIEW PPS 6 WAY



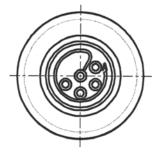
FRONT FACE VIEW PPS 5 WAY



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					

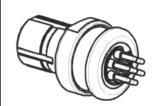
MECHANICAL						
Durability	1000 Matings					
Materials	Shell : Brass – See Part No. information for plating options					
	Contacts : Turned, Gold Plated					
	Inserts and Seal : Proprietary Thermoplastic Polyester Elastomer					

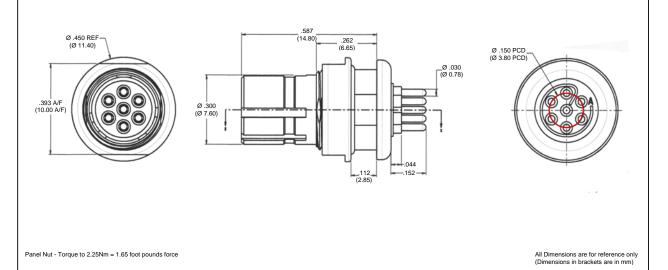
Table of Styles - Receptacles

PPS-07A05-XXSX-001(970)

Jam Nut Receptacle PCB Contacts

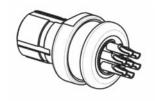






PPS-07A05-XXSX-002(970)

Jam Nut Receptacle Solder Bucket Contacts





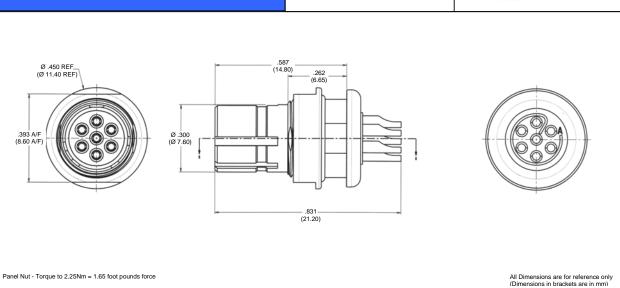


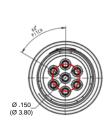
Table of Styles - Receptacles

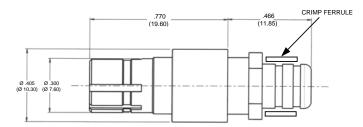
PPS-01T05-XXSX-002(970)

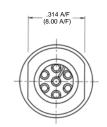
In Line Receptacle Solder Bucket Contacts











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

PPS-02T05-XXSX-002(970)

2 Hole Mounting Receptacle Solder Bucket Contacts





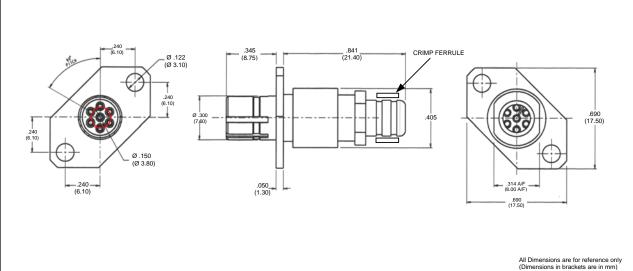


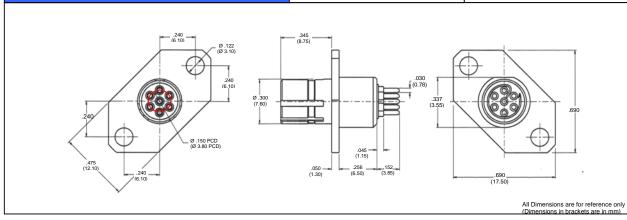
Table of styles - Receptacles

PPS-02A05-XXSX-001(970)

2 Hole Panel Mount Receptacle Pin Tail Contacts





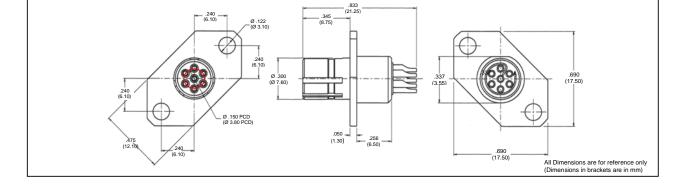


PPS-02A05-XXSX-002(970)

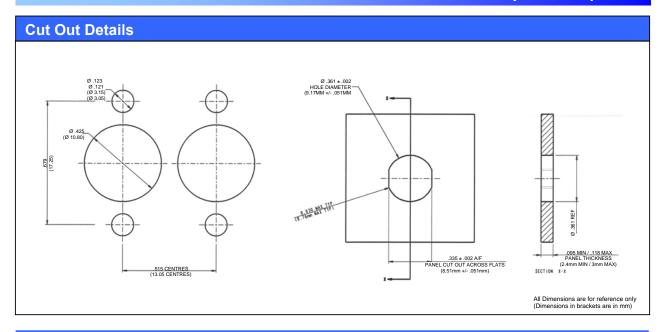
2 Hole Panel Mount Receptacle Solder Bucket Contacts

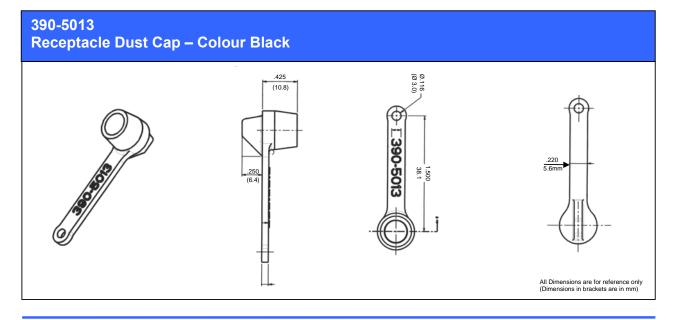


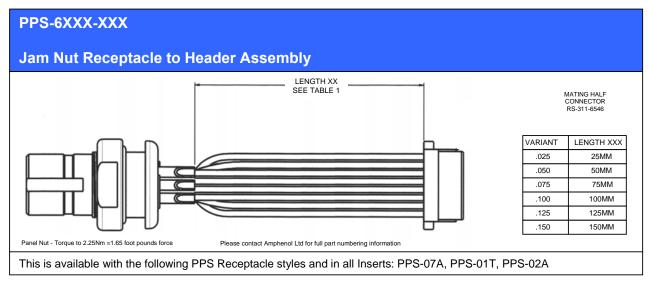




390-0122-01 2 Hole Panel Mount Receptacle Gasket Used on PPS-02T and PPS-02A All Dimensions are for reference only (Dimensions in brackets are in mm)

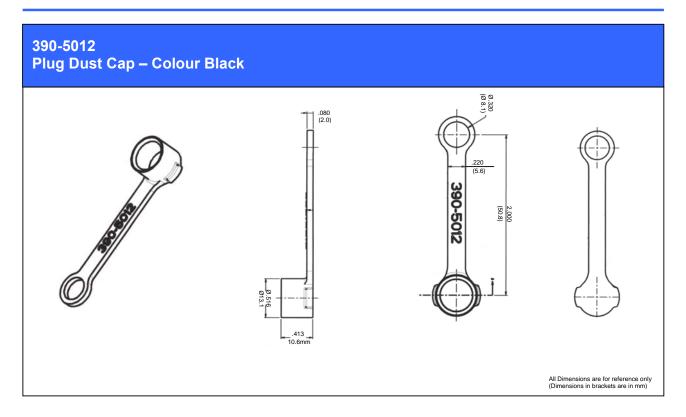






PPS-06T05-XXPX-XXX Non Grounded Plug complete with **Backshell and optional Crimp Ferrule** .775 (19.75) TABLE 1 PART NUMBER MAX. CABLE DIAMETER FOR FERRULE PPS-06T05-XXPX-001 PPS-06T05-XXPX-002 STRAIGHT FERRULE .001 (SEE TABLE 1 FOR SIZES) TAPERED FERRULE .002 (SEE TABLE 1 FOR SIZES) PPS-06T05-XXPX-003 3.2MM All Dimensions are for reference only (Dimensions in brackets are in mm) Torque backshells 15 inch lbs **Ferrule** Max. Cable Diameter **Options for Black Zinc Cobalt Plated** 001 Parallel Ferrule 5.6mm O.D. 002 Taper Ferrule 4.3mm O.D. 3.2mm O.D. 003 Taper Ferrule

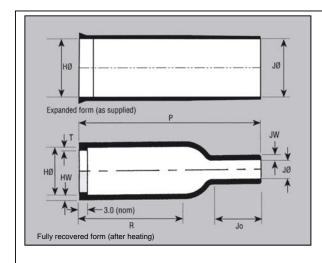
For Crimp Tool details, please refer to the back of this catalogue.



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

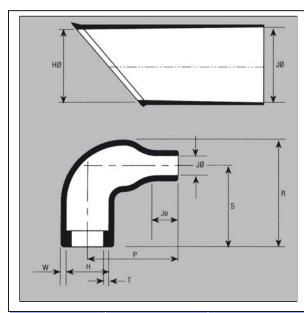


This style is used in conjunction with the backshell (see page 8), providing strain relief and environmental sealing

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	Н	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

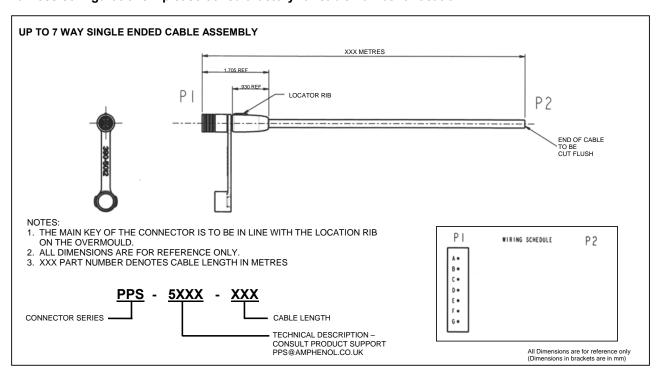


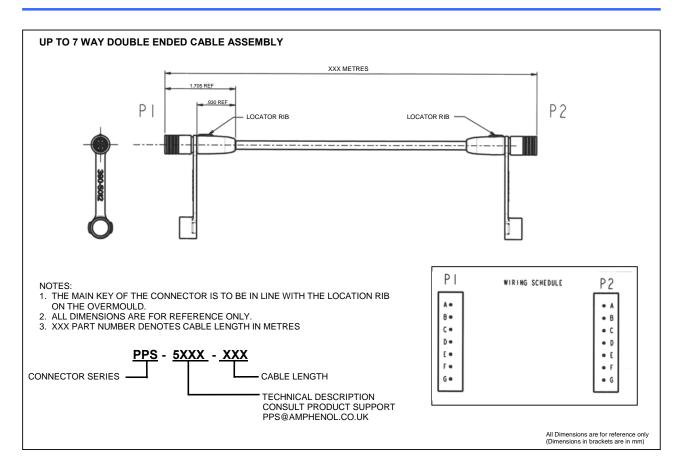
The style provides strain relief for harness systems when used in conjunction with the backshell (see page 8)

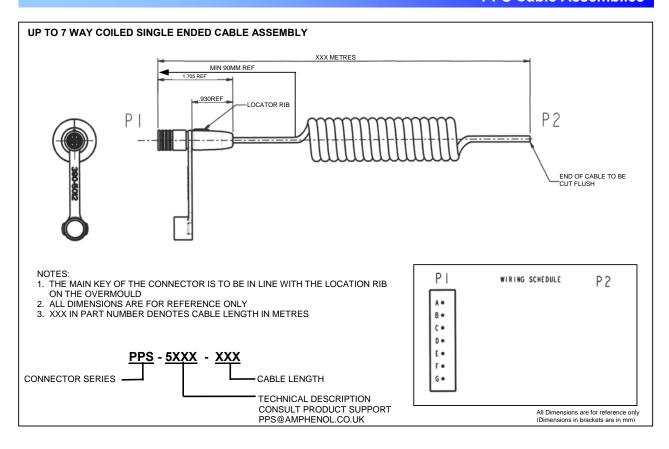
Dimensions apply to all materials unless otherwise indicated and dimensions in brackets are in mm

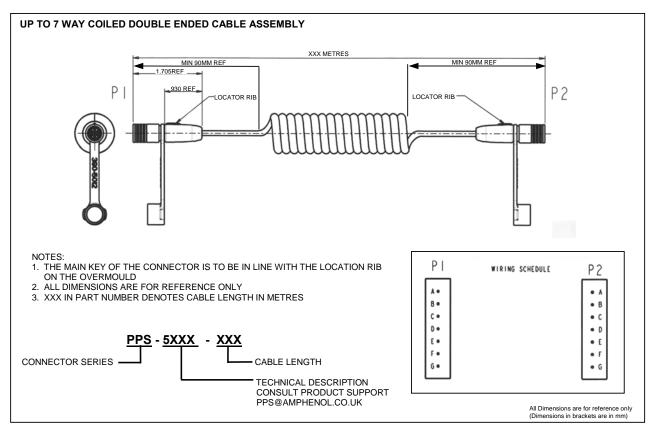
	Expand	led (Min)	Recover	ed (Max)	Recovered Dimensions Fully Shrunk					
Hellermann Part No	Н	JØ	н	JØ	P ±10%	R ±10%	S ±10%	Jo ±10%	W ±20%	T ±20%
1108-4-G-WM250	0.6496 (16.5)	0.6496 (16.5)	0.3110 (7.9)	0.1496 (3.8)	0.6875 (17.3)	0.7969 (20.1)	0.6005 (15.2)	0.1614 (4.1)	0.0394 (1.0)	0.0394 (1.0)

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

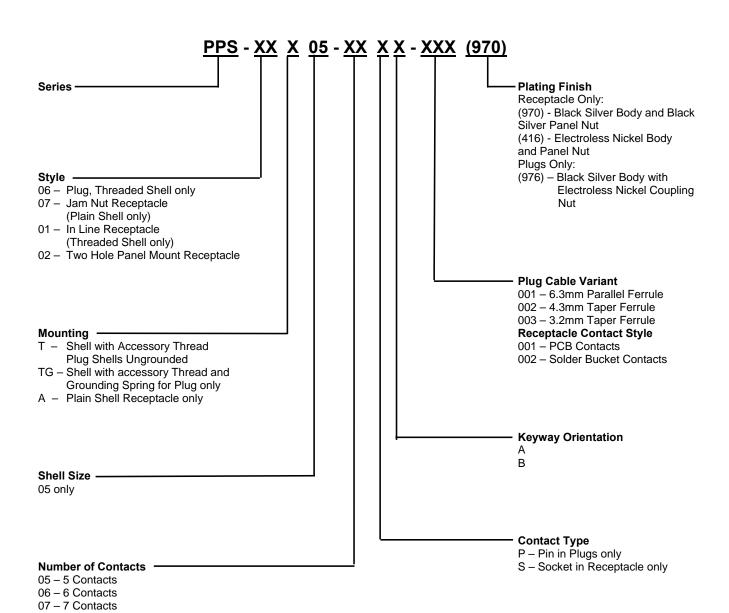








Any Cable Assembly Part Number will be issued at quotation or order placement stage by Amphenol Ltd only. For more details please consult the factory.



STANDARD PLATING

Plugs

Omit Deviation – Black Silver Plated Body and Backshell with Black Coupling Nut





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