

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.

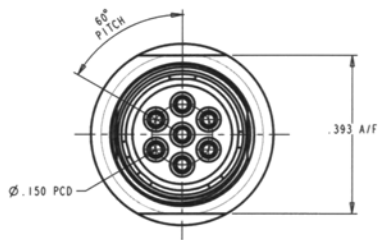
The PPS has a small outside diameter and several inserts are available, including high-density insert arrangements. The plugs can be fitted with EMC grounding fingers for increased screening effectiveness. Amphenol Ltd offers full cable harness solutions with overmoulding capabilities or, where preferred,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

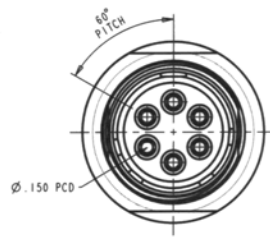
Amphenol

Visit our Website @
www.amphenol.co.uk

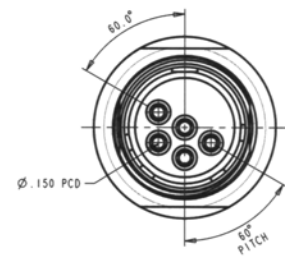
RECEPTACLES – SOCKET CONTACTS ONLY



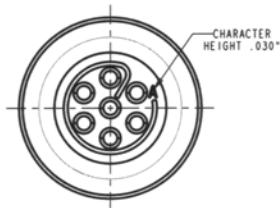
FRONT FACE VIEW
PPS 7 WAY



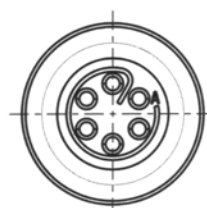
FRONT FACE VIEW
PPS 6 WAY



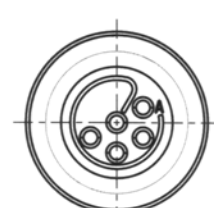
FRONT FACE VIEW
PPS 5 WAY



REAR FACE VIEW
PPS 7 WAY

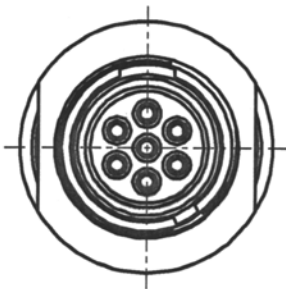


REAR FACE VIEW
PPS 6 WAY

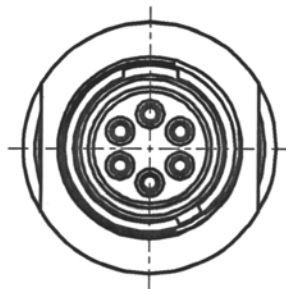


REAR FACE VIEW
PPS 5 WAY

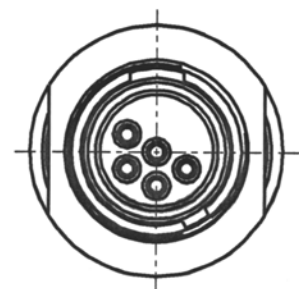
PLUGS – PIN CONTACTS ONLY



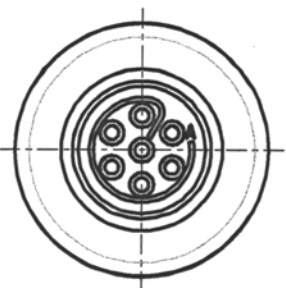
FRONT FACE VIEW
PPS 7 WAY



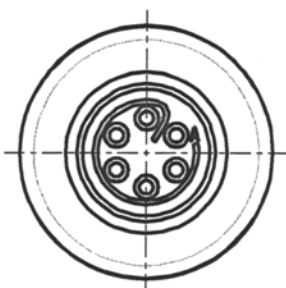
FRONT FACE VIEW
PPS 6 WAY



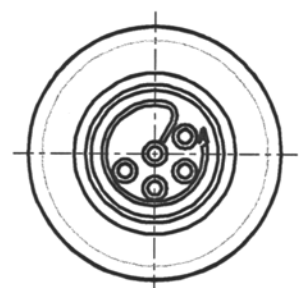
FRONT FACE VIEW
PPS 5 WAY



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

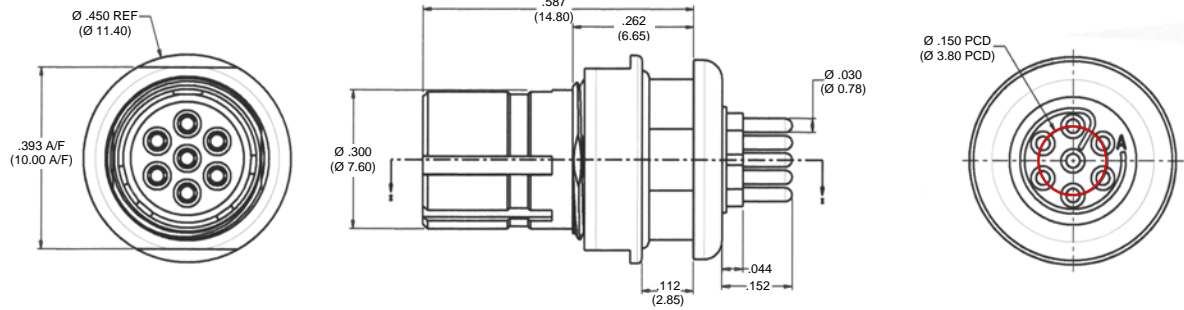
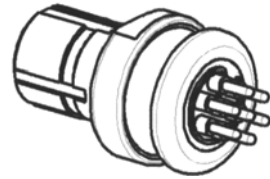
ENVIRONMENTAL	
Temperature	-55°C / +85°C
Salt Spray	500 hours subject to selected plating finish
Fluids	As per MIL-C-26482 Series I
Vibration and Shock	MIL-C-26482 Series I
Sealing	IP67 Unmated Bulkhead Connectors
	IP64 Mated Pair Interface

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

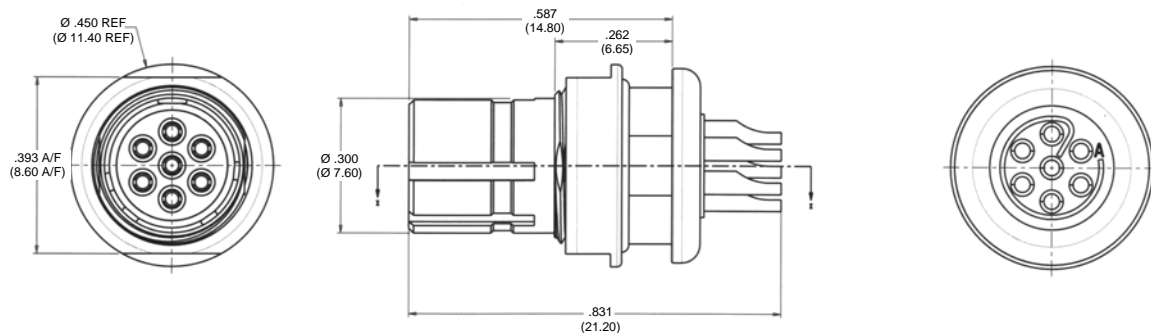
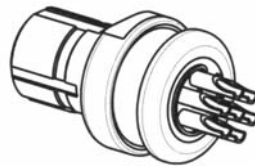


Panel Nut - Torque to 2.25Nm = 1.65 foot pounds force

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

PPS-07A05-XXSX-002

Jam Nut Receptacle Solder Bucket Contacts



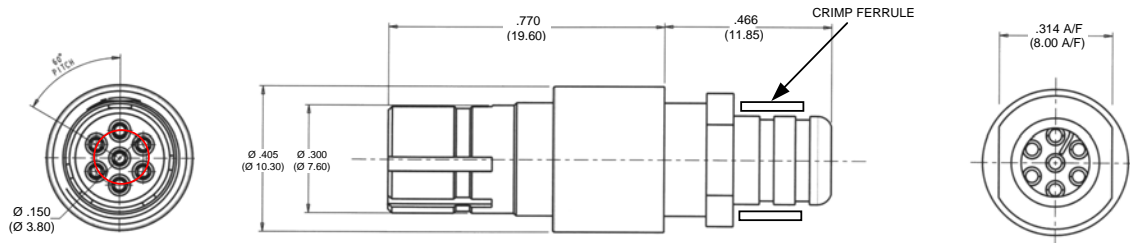
Panel Nut - Torque to 2.25Nm = 1.65 foot pounds force

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

Table of Styles - Receptacles

PPS-01T05-XXSX-002

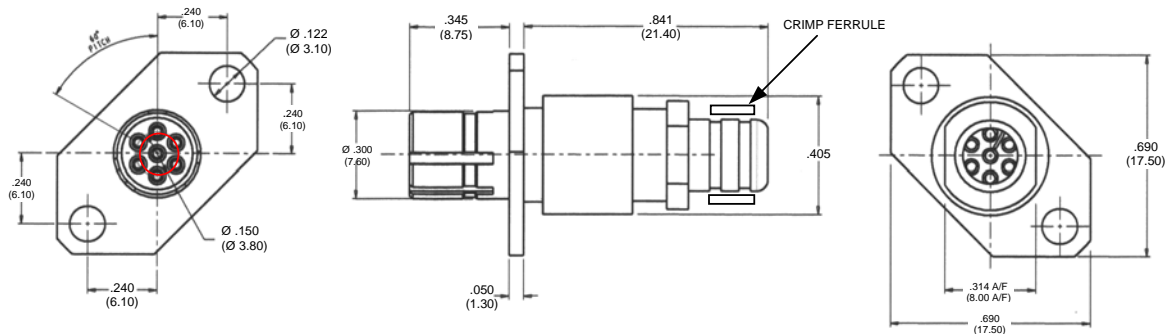
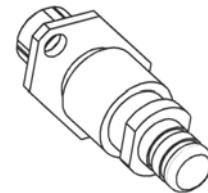
In Line Receptacle Solder Bucket Contacts



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

PPS-02T05-XXSX-002

2 Hole Mounting Receptacle Solder Bucket Contacts

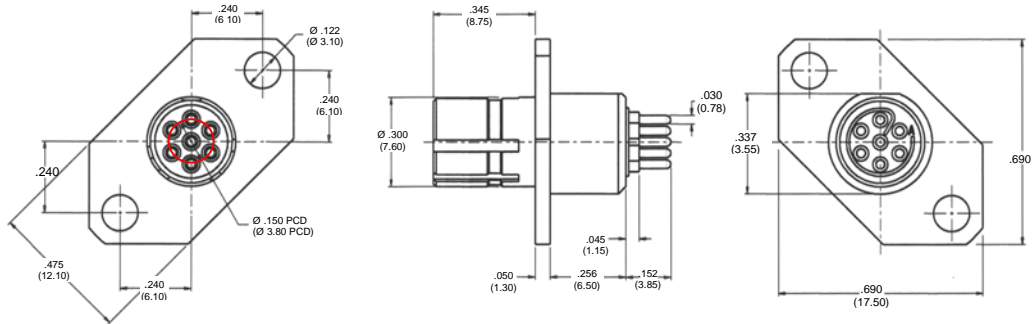
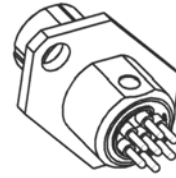
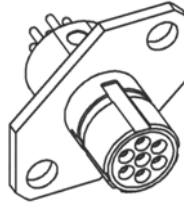


All Dimensions are for reference only
(Dimensions in brackets are in mm)

Table of styles - Receptacles

PPS-02A05-XXSX-001

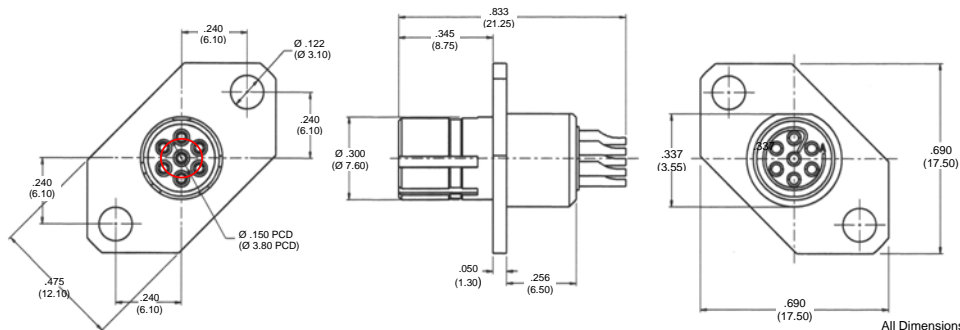
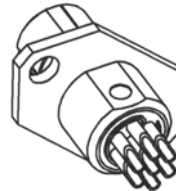
2 Hole Panel Mount Receptacle Pin Tail Contacts



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

PPS-02A05-XXSX-002

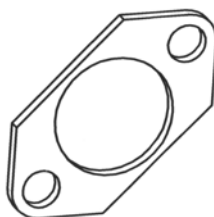
2 Hole Panel Mount Receptacle Solder Bucket Contacts



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

390-0122-01

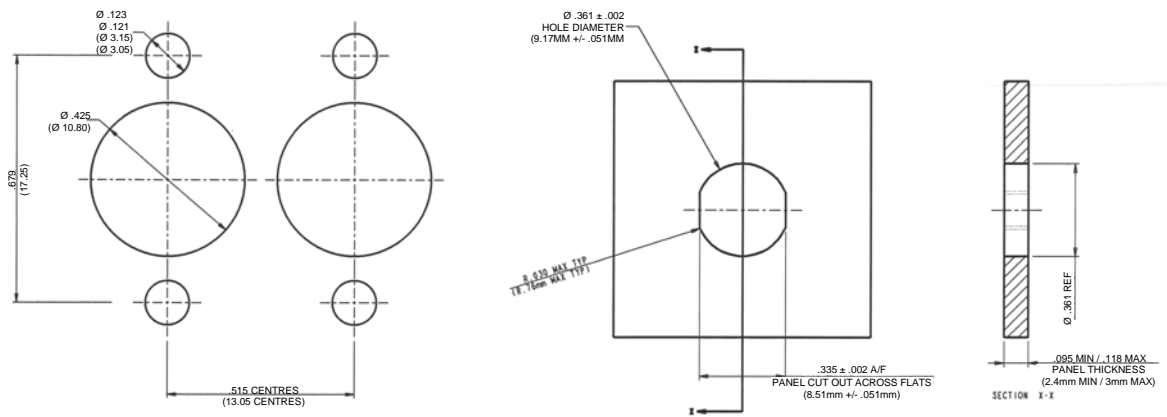
2 Hole Panel Mount Receptacle Gasket



Used on PPS-02T and PPS-02A

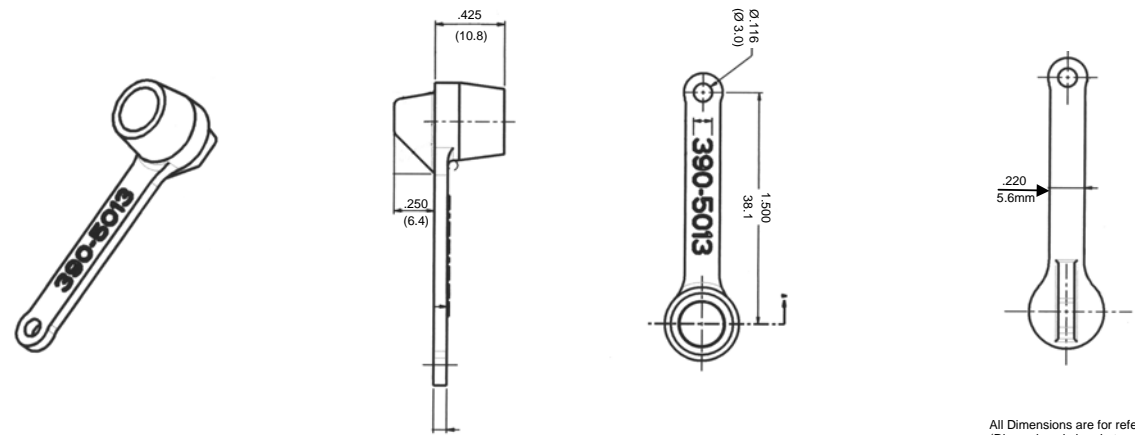
All Dimensions are for reference only
(Dimensions in brackets are in mm)

Cut Out Details



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

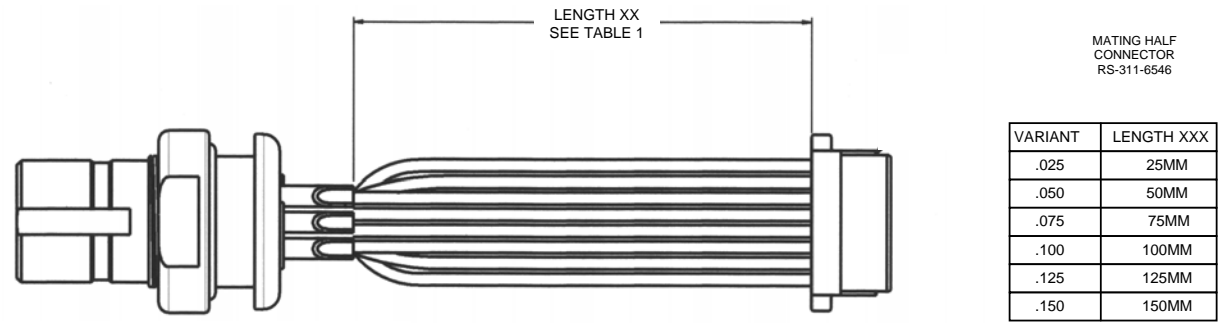
390-5013
Receptacle Dust Cap – Colour Black



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

PPS-6XXX-XXX

Jam Nut Receptacle to Header Assembly



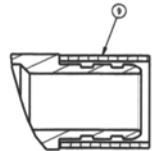
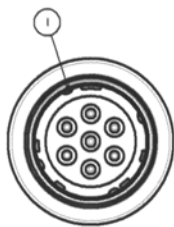
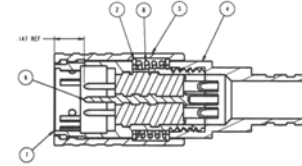
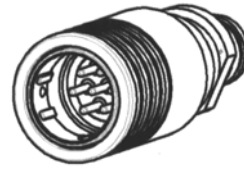
Panel Nut - Torque to 2.25Nm = 1.65 foot pounds force

Please contact Amphenol Ltd for full part numbering information

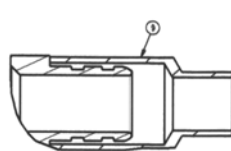
This is available with the following PPS Receptacle styles and in all Inserts: PPS-07A, PPS-01T, PPS-02A

PPS-06T05-XXPX-XXX

Non Grounded Plug complete with Backshell and optional Crimp Ferrule



STRAIGHT FERRULE .001
(SEE TABLE 1 FOR SIZES)



TAPERED FERRULE .002
(SEE TABLE 1 FOR SIZES)

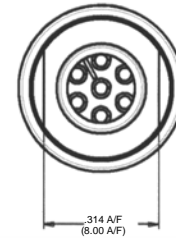
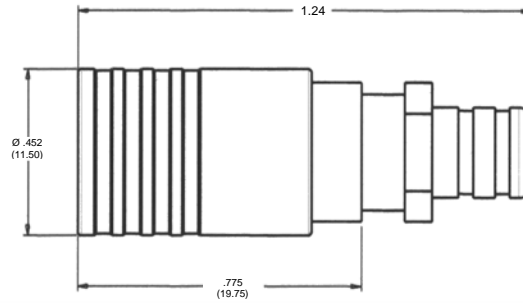


TABLE 1

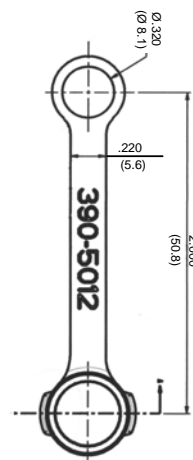
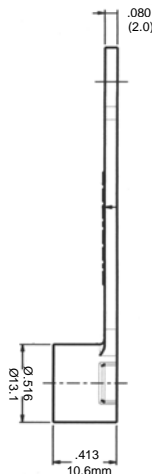
PART NUMBER	MAX. CABLE DIAMETER FOR FERRULE
PPS-06T05-XXPX-001	6.5MM
PPS-06T05-XXPX-002	4.3MM
PPS-06T05-XXPX-003	3.2MM

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

Options for Black Zinc Cobalt Plated	Ferrule	Max. Cable Diameter
001	Parallel Ferrule	5.6mm O.D.
002	Taper Ferrule	4.3mm O.D.
003	Taper Ferrule	3.2mm O.D.

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

390-5012 Plug Dust Cap – Colour Black

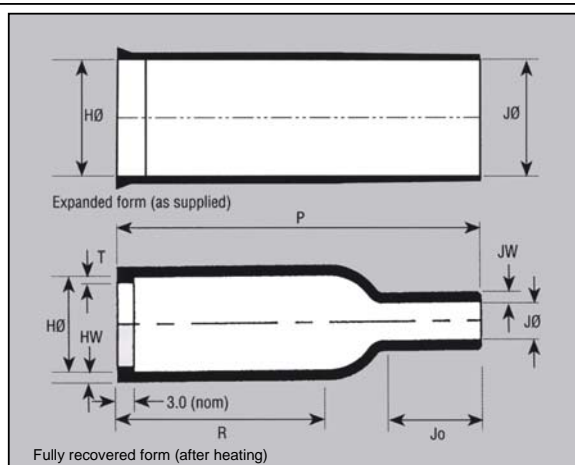


All Dimensions are for reference only
(Dimensions in brackets are in mm)

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

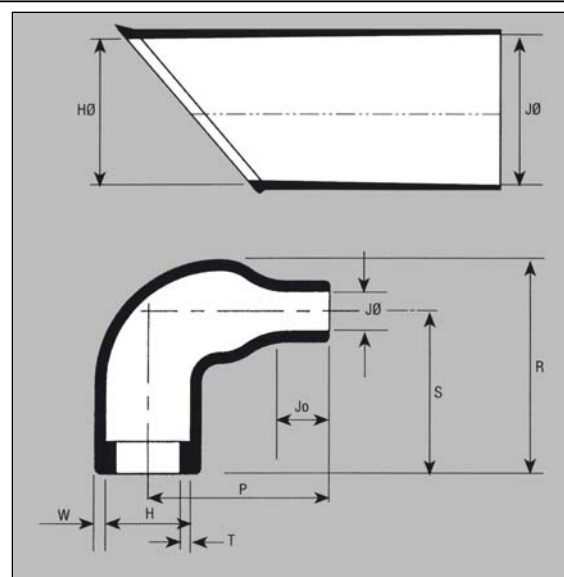


This style is used in conjunction with the backshell (see page 8), providing strain relief and environmental sealing

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

Hellermann Part No	Expanded (Min)				Recovered (Max)		Recovered Dimensions Fully Shrunk					
	H	H -H matl	JØ	J -H matl	H	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



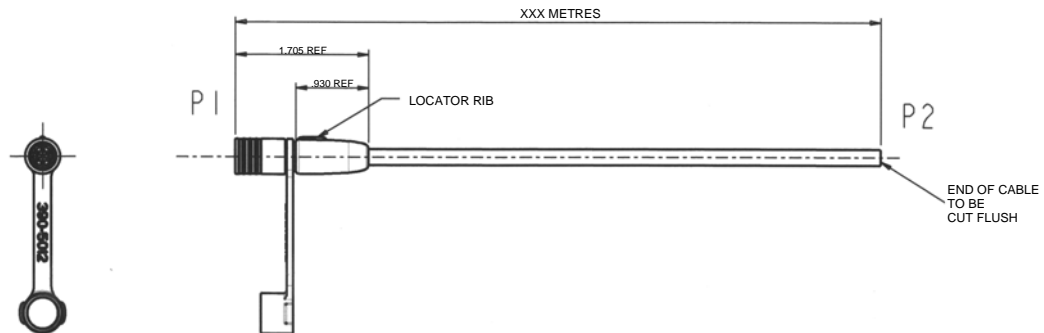
The style provides strain relief for harness systems when used in conjunction with the backshell (see page 8)

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

Hellermann Part No	Expanded (Min)		Recovered (Max)		Recovered Dimensions Fully Shrunk					
	H	JØ	H	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

UP TO 7 WAY SINGLE ENDED CABLE ASSEMBLY



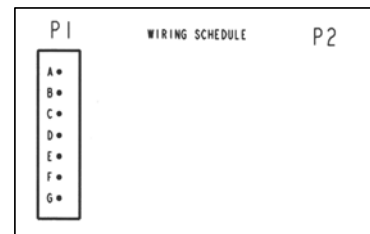
NOTES:

1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD.
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
3. XXX PART NUMBER DENOTES CABLE LENGTH IN METRES

PPS - 5XXX - XXX

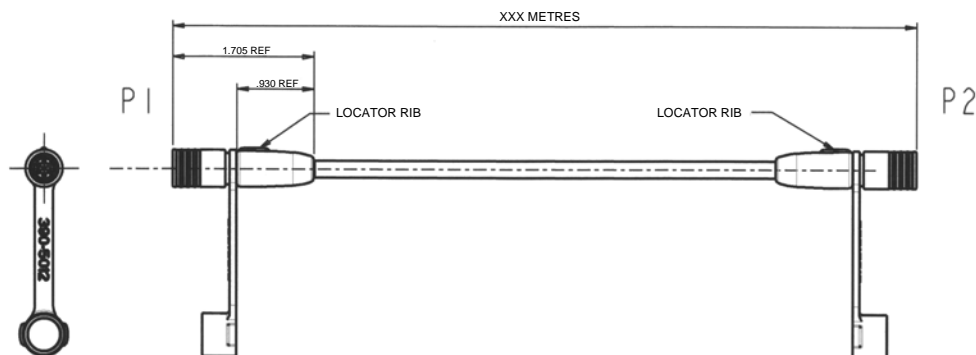
CONNECTOR SERIES CABLE LENGTH

TECHNICAL DESCRIPTION –
CONSULT PRODUCT SUPPORT
PPS@AMPHENOL.CO.UK



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

UP TO 7 WAY DOUBLE ENDED CABLE ASSEMBLY



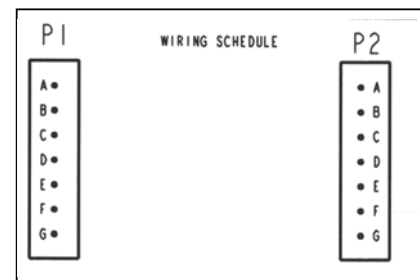
NOTES:

1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD.
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
3. XXX PART NUMBER DENOTES CABLE LENGTH IN METRES

PPS - 5XXX - XXX

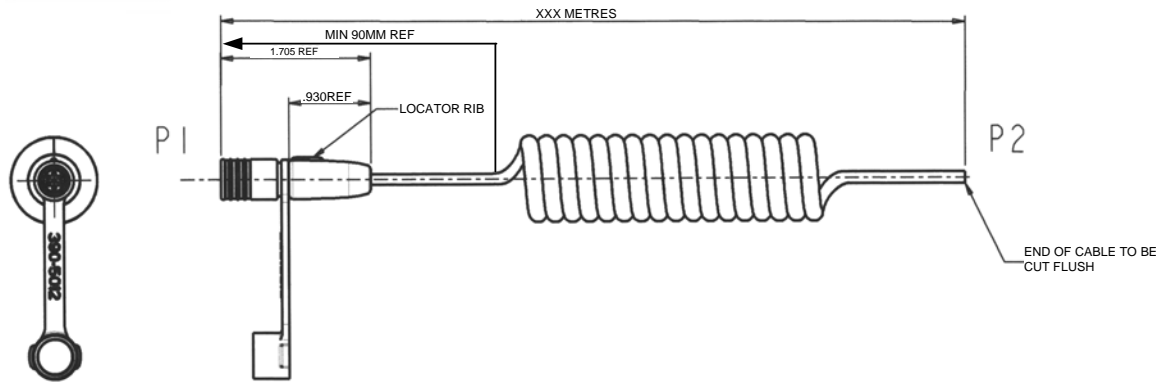
CONNECTOR SERIES CABLE LENGTH

TECHNICAL DESCRIPTION
CONSULT PRODUCT SUPPORT
PPS@AMPHENOL.CO.UK



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

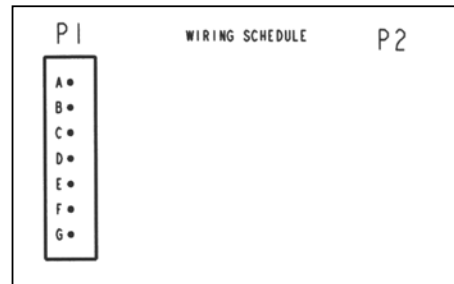
UP TO 7 WAY COILED SINGLE ENDED CABLE ASSEMBLY



NOTES:

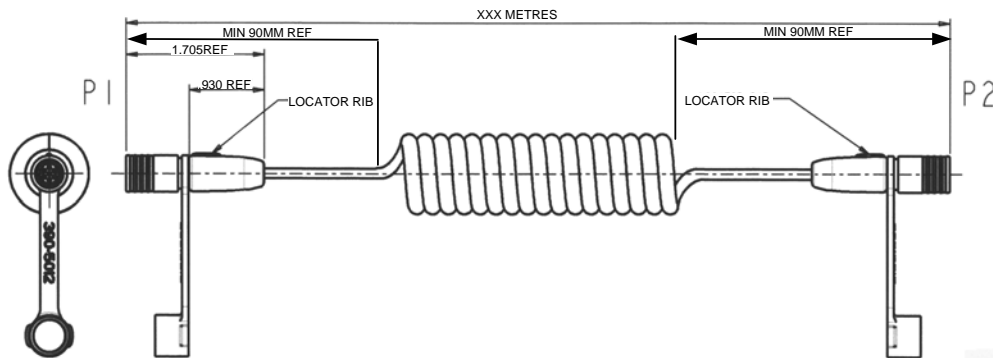
1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
3. XXX IN PART NUMBER DENOTES CABLE LENGTH IN METRES

PPS - 5XXX - XXX
 CONNECTOR SERIES CABLE LENGTH
 TECHNICAL DESCRIPTION
 CONSULT PRODUCT SUPPORT
 PPS@AMPHENOL.CO.UK



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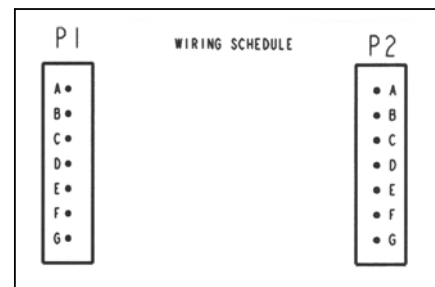
UP TO 7 WAY COILED DOUBLE ENDED CABLE ASSEMBLY



NOTES:

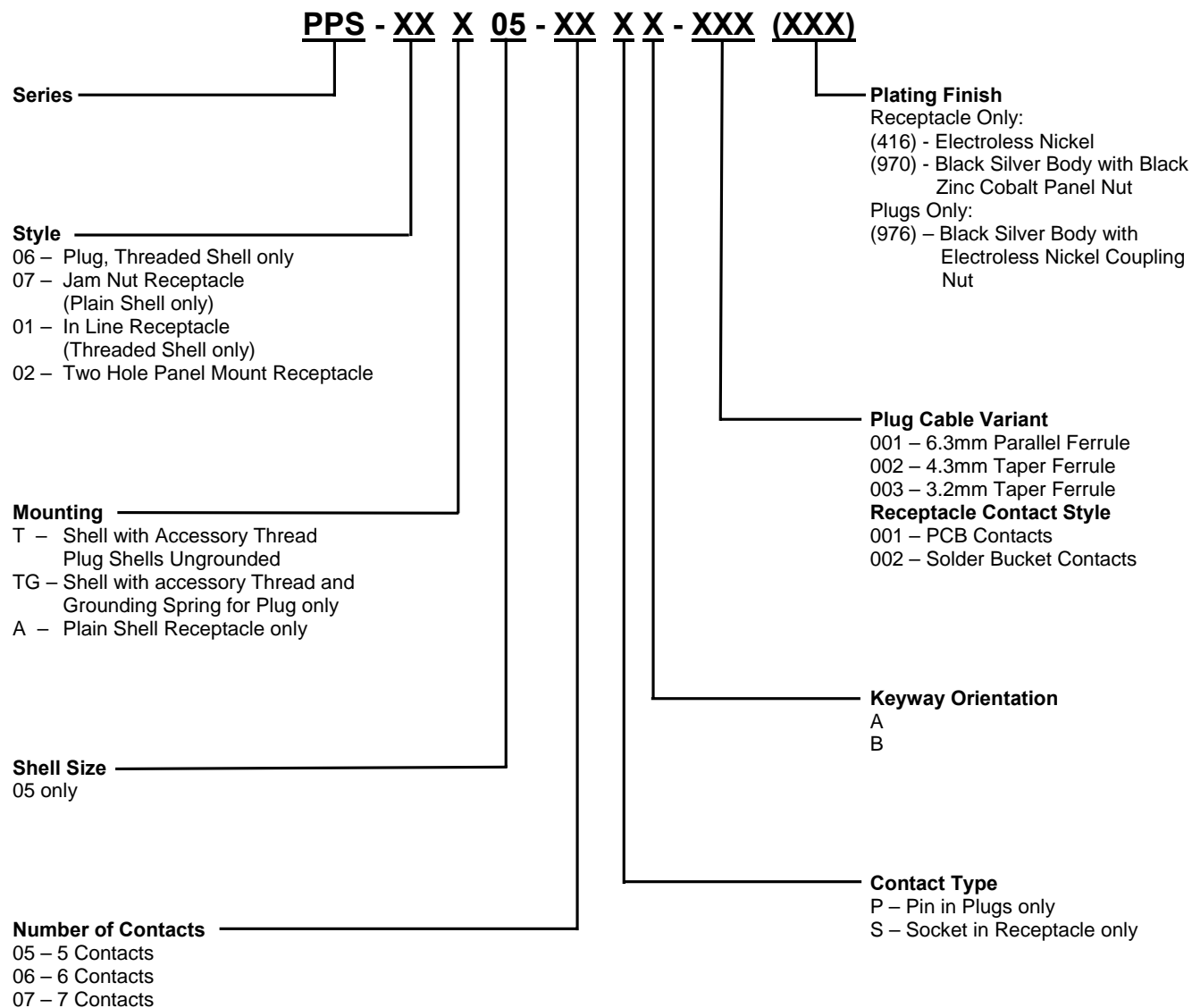
1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
3. XXX IN PART NUMBER DENOTES CABLE LENGTH IN METRES

PPS - 5XXX - XXX
 CONNECTOR SERIES CABLE LENGTH
 TECHNICAL DESCRIPTION
 CONSULT PRODUCT SUPPORT
 PPS@AMPHENOL.CO.UK



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

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.



March 2005

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Amphenol

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