# Amphenol SCE Snatch Connector Electrical Series



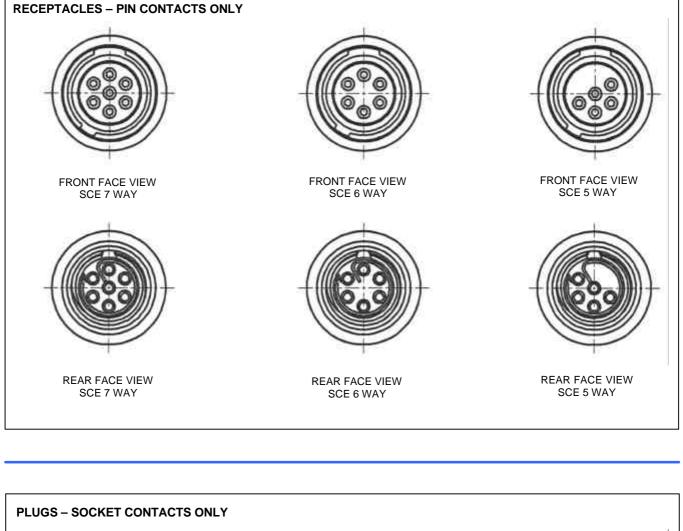
The SCE has been designed specifically for the harsh environment. A simple push to mate and pull to release feature means that this miniature product is of a snatch push pull design and it cannot be locked when mated. The SCE has no moving parts, i.e. coupling nut, thus eliminating the path for the ingress of moisture and dust to the interface. The SCE free cable connector is fitted with internal and external o-rings for sealing.

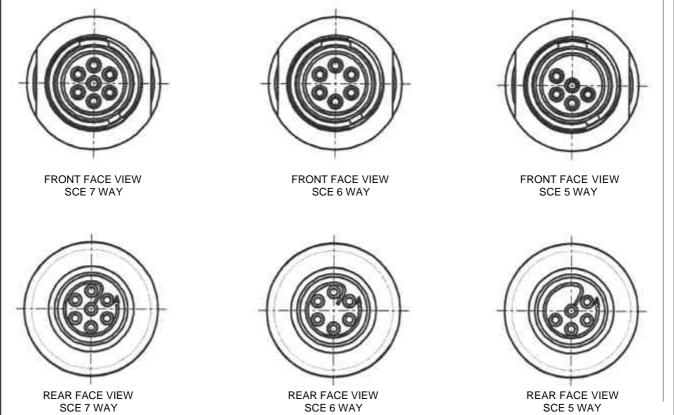
This fully grounded series is machined from brass, giving it an increased number of mating cycles over traditional aluminium connectors. The inserts and contacts are moulded in place to offer high environmental sealing.

Shell to shell keying is provided with two different key options of A and B positions to prevent mis-mating between shells of different orientations. Amphenol Ltd offers full cable harness solutions with overmoulding capabilities or, where preferred, a heat shrink boot can be used.

## **Amphenol**

### **SCE - Insert Availability**





### SCE – Performance Information

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

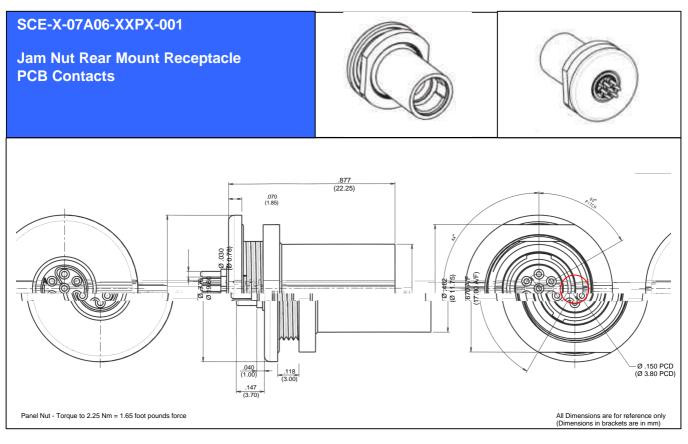
CONTACT SPECIFICATIONS							
Contact Resistance	5 mO initially	Less than 10 mO					
Shell to Shell Conductivity	5 mO initially	Less than 10 mO					

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

ENVIRONMENTAL							
Temperature	-55°C / +85°C						
Salt Spray Resistance	500 hours						
Fluids	As per MIL-C-26482 Series I						
Vibration and Shock	As per MIL-C-26482 Series I						
Sealing	IP68 through Unmated Bulkhead Connectors						
	IP68 Mated Pair Interface						
Sand and Dust	DEF STAN 07-55 (Part 2) Test D1						
Icing/Frosting	DEF STAN 07-55 (Part 2) Test B10						

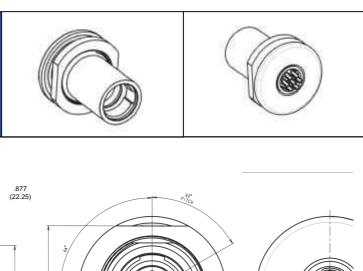
MECHANICAL					
Durability 2000 Matings					
Materials Shell : Brass – See Part No. information for plating options					
Contacts : Turned, Gold Plated					
Inserts and Seal : Proprietary Thermoplastic Polyester Elastomer					

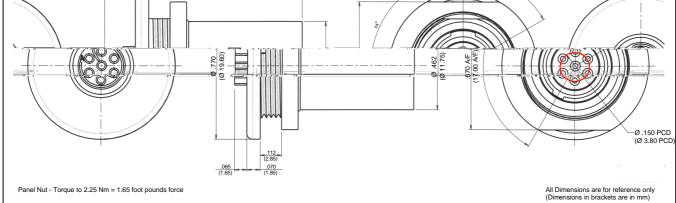
### **Receptacles have Pin Contacts only**

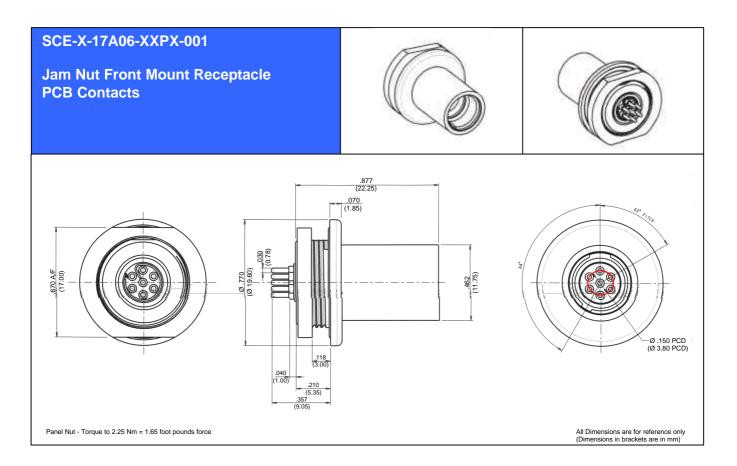


### SCE-X-07A06-XXPX-002

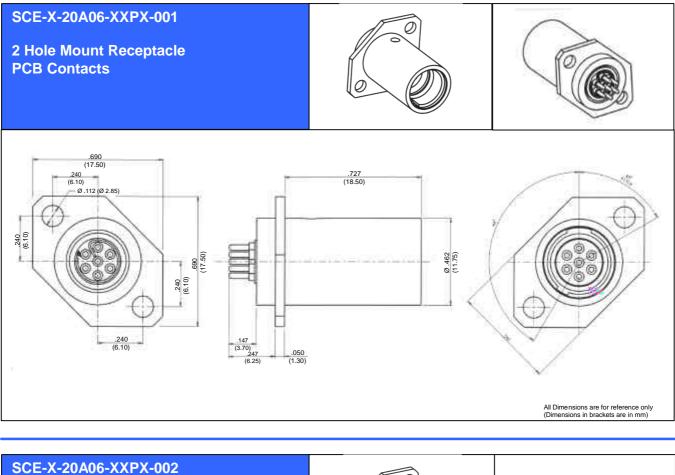
Jam Nut Rear Mount Receptacle Solder Bucket Contacts

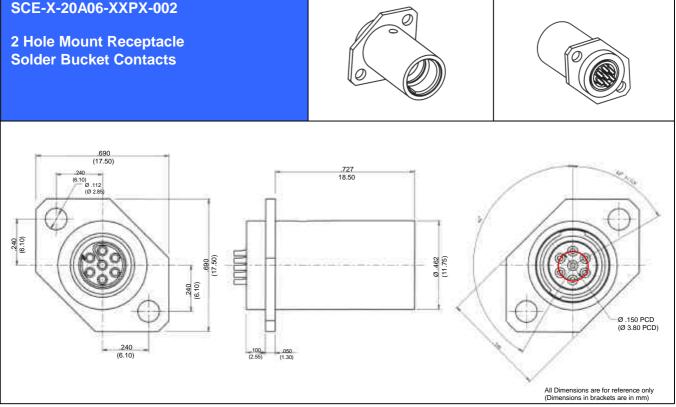


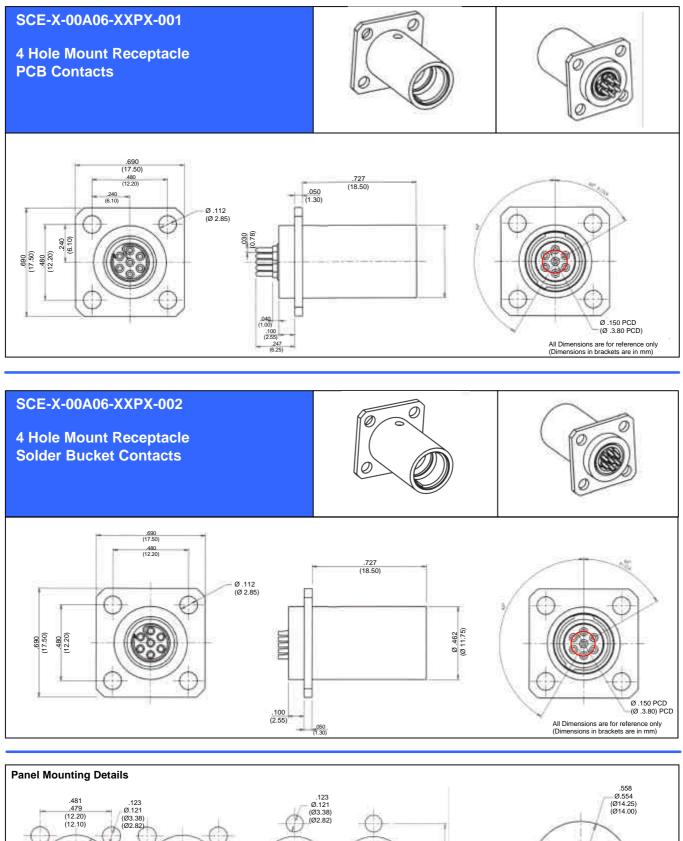


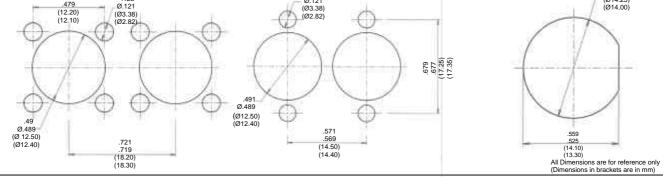


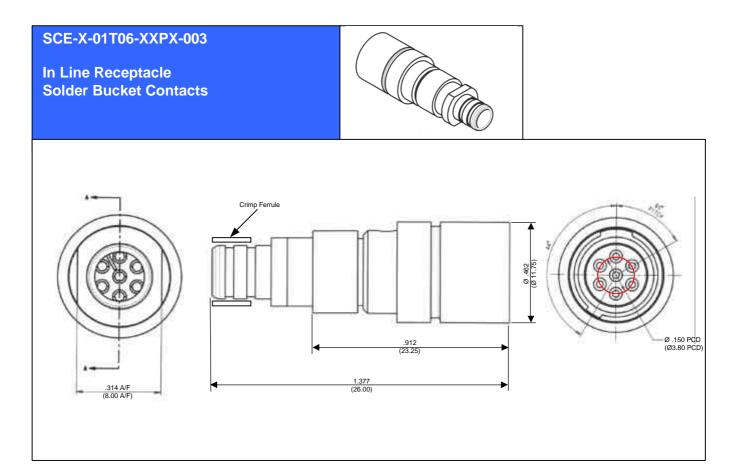
# SCE-X-17A06-XXPX-002 Jam Nut Front Mount Receptacle Solder Bucket Contacts

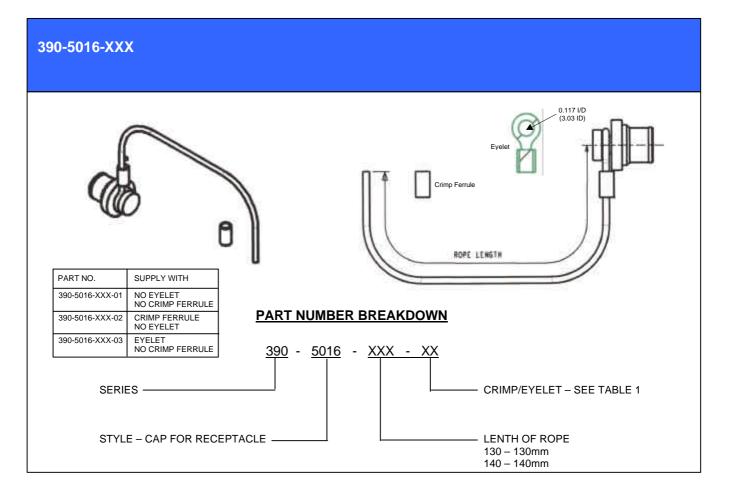




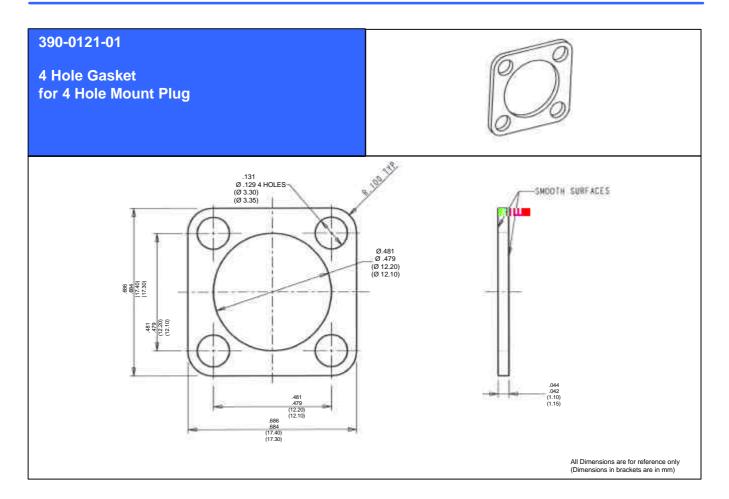


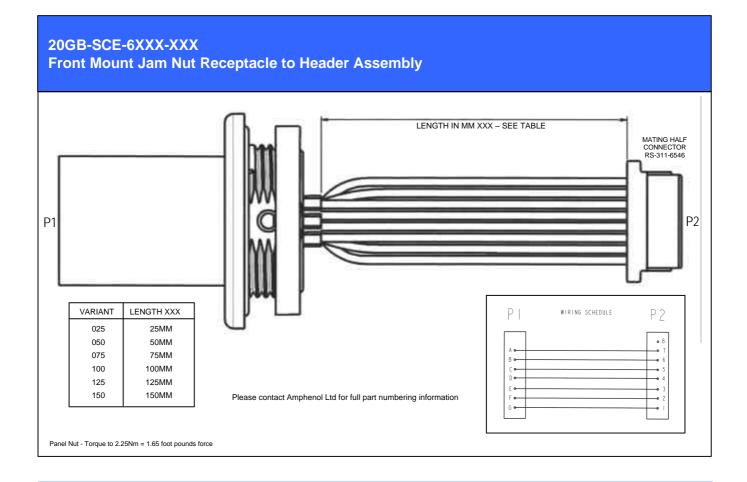




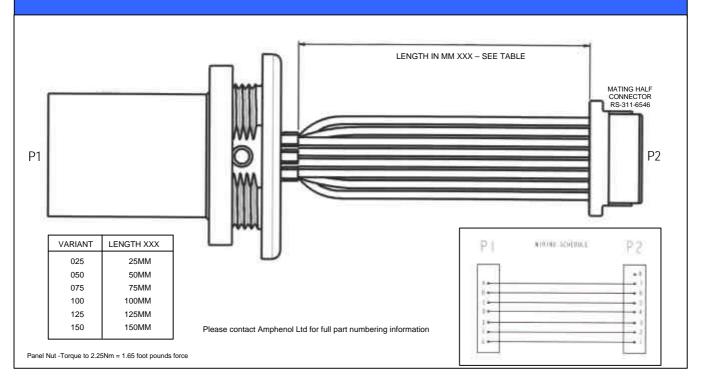


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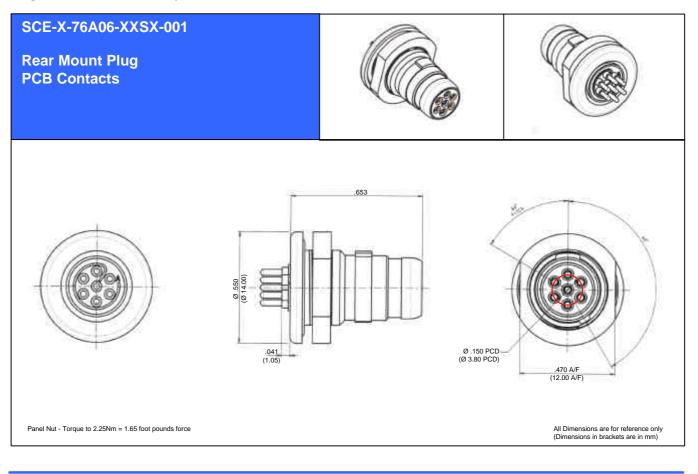




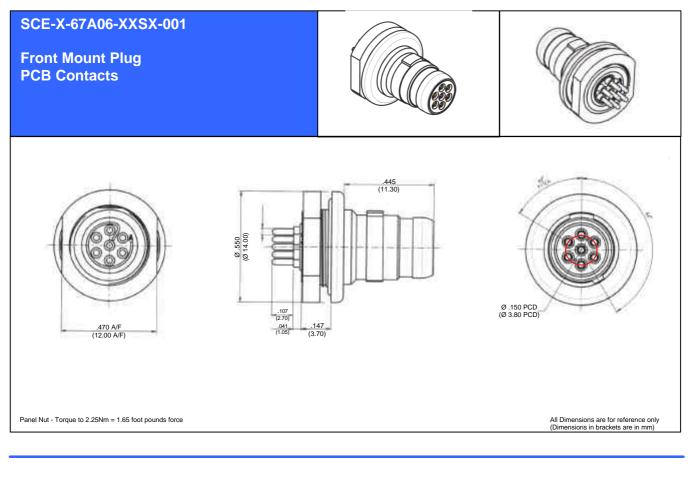
20GB-SCE-6XXX-XXX Rear Mount Jam Nut Receptacle to Header Assembly

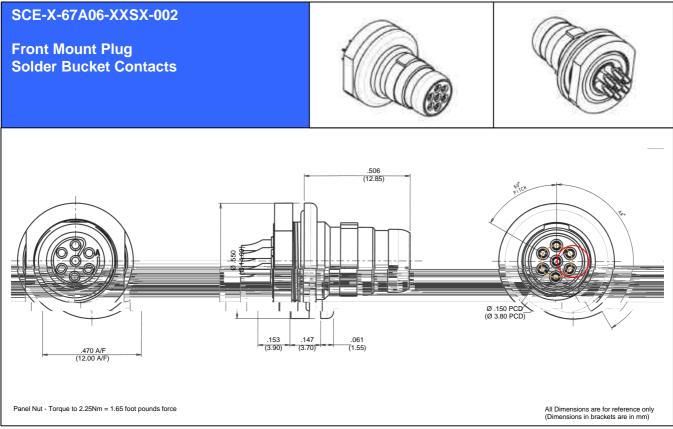


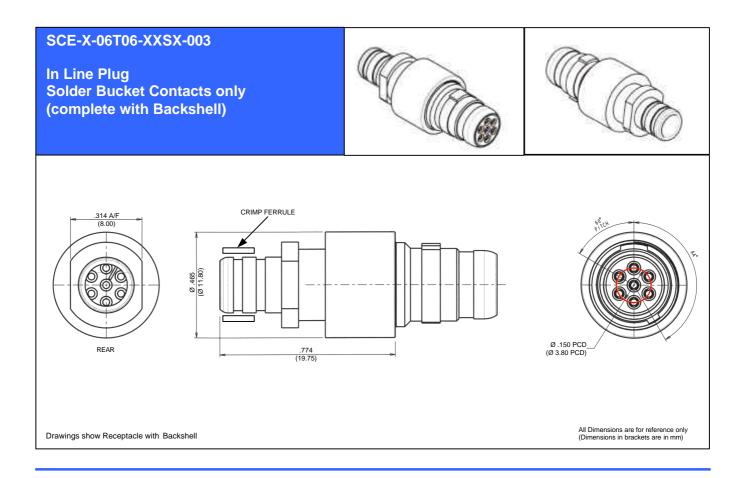
### Plugs have Socket Contacts only



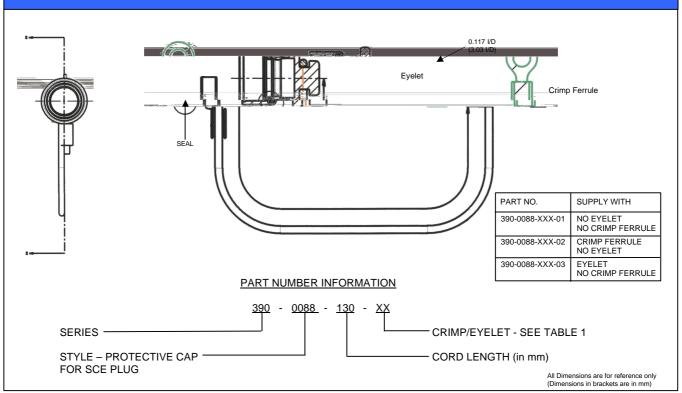
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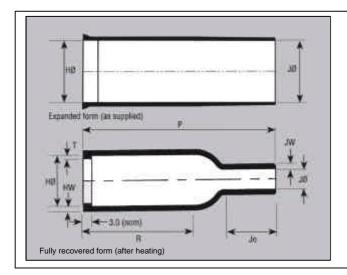




### For use with SCE-06T and SCE-01T

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

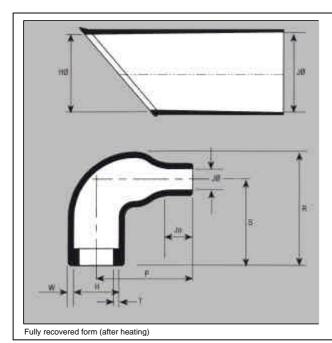


This style is used in conjunction with the backshell (see page 13) providing strain relief and environmental sealing	
Dimensions apply to all materials unless otherwise in	dicated

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	Expanded (Min)				Recovered (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)

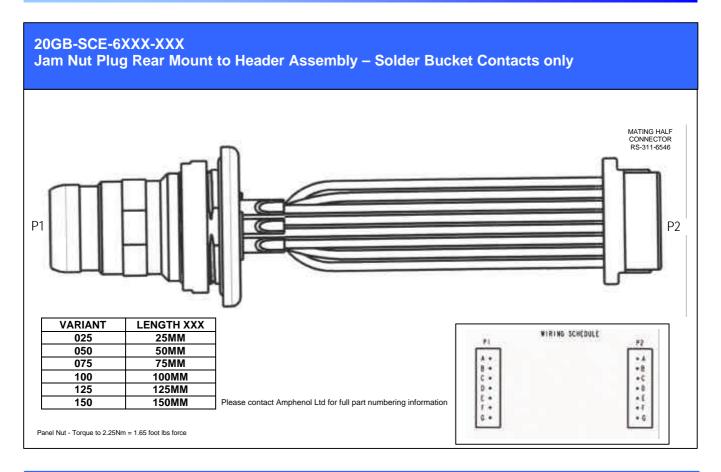
### 1100 Series - Right Angle Shapes with Rib - MIL Style



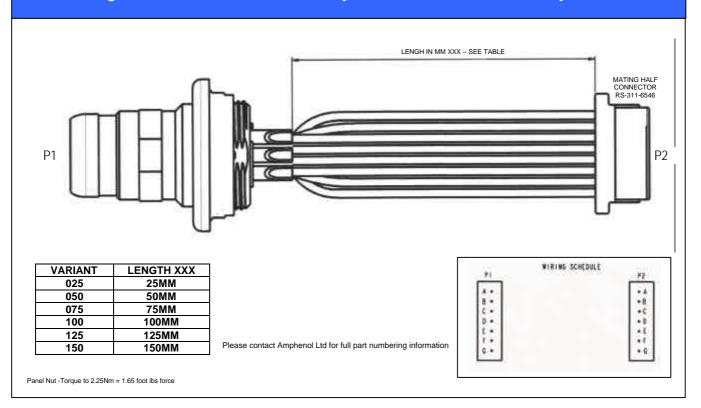
The style provides strain relief for harness systems when used in conjunction with the backshell (see page 13)

Dimensions apply to all materials unless otherwise indicated

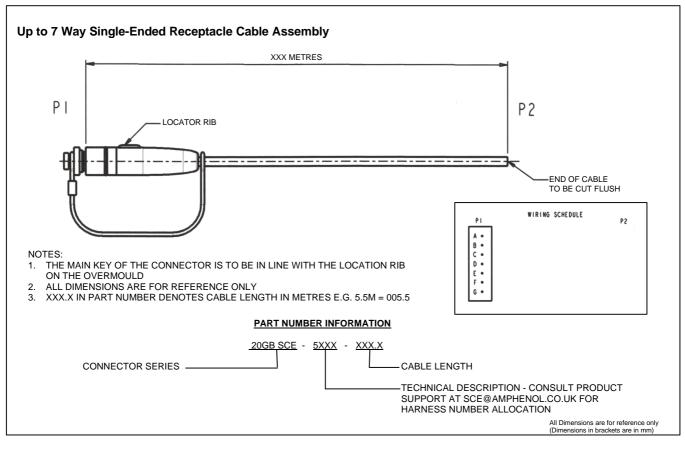
	Expanded (Min) Recovered (Max)				Recovered Dimensions Fully Shrunk					
Hellermann Part No	н	JØ	н	Jø	P ±10%	R ±10%	S ±10%	Jo ±10%	W ±20%	T ±20%
1108-4-G-WM250	0.6496 (16.5)	0.6496 (16.5)	0.3110 (7.9)	0.1496 (3.8)	0.6875 (17.3)	0.7969 (20.1)	0.6005 (15.2)	0.1614 (4.1)	0.0394 (1.0)	0.0394 (1.0)

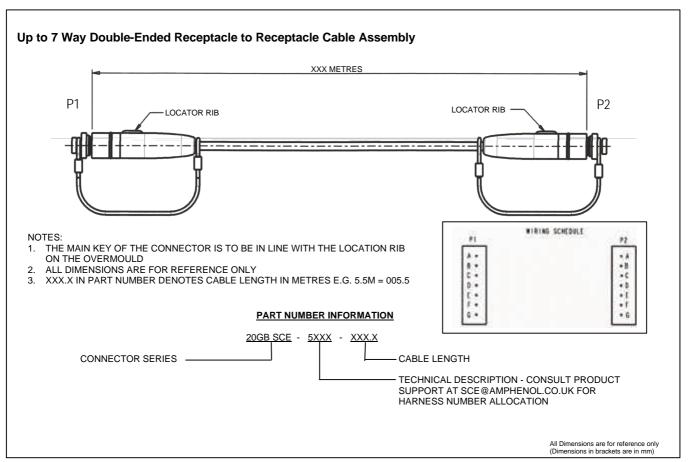


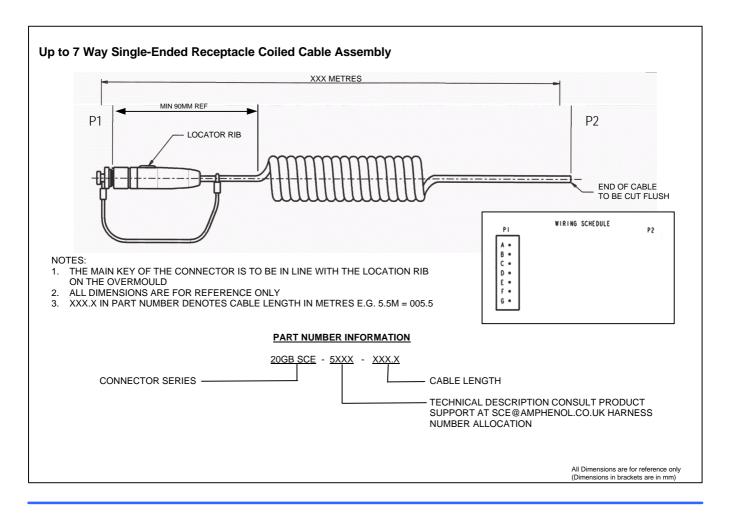
### 20GB- SCE-6XXX-XXX Jam Nut Plug Front Mount to Header Assembly – Solder Bucket Contacts only

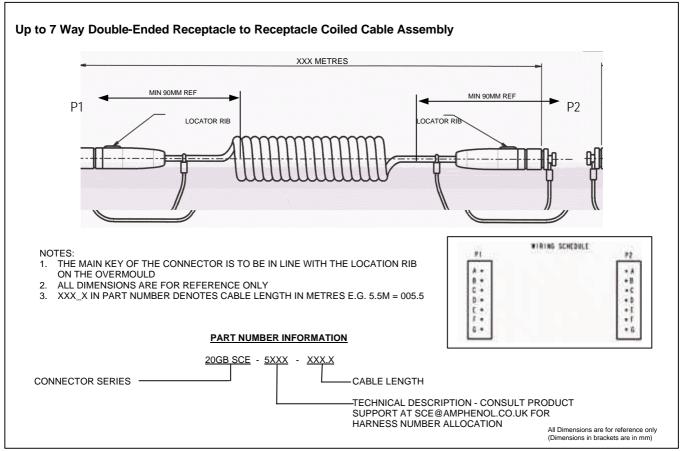


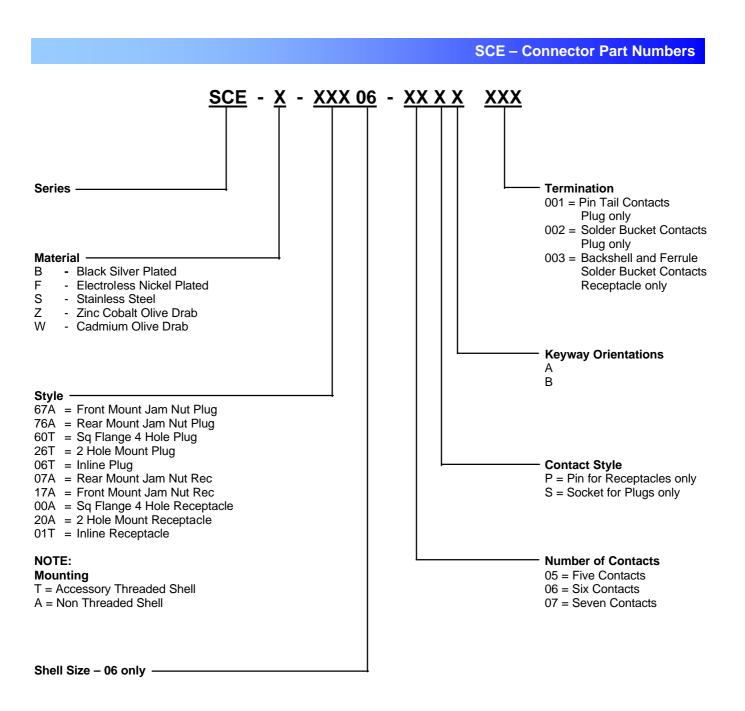
Amphenol Ltd can supply complete overmoulded cable harness solutions to your specifications. The following templates are of common harness configurations. Please consult factory for cable number allocation.











### For Braid Termination Style 003

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March 2005

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