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.

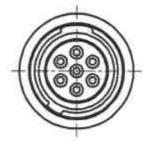
This fully grounded series is machined from brass, giving it an increased number of mating cycles over traditional aluminium connectors. The inserts and contacts are moulded in place to offer high environmental sealing.

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

Helt out Website South

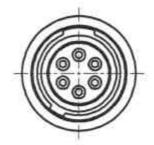
RECEPTACLES - PIN CONTACTS ONLY



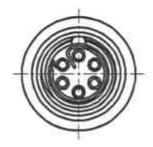
FRONT FACE VIEW SCE 7 WAY



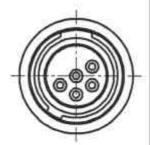
REAR FACE VIEW SCE 7 WAY



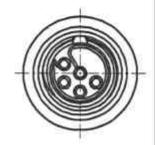
FRONT FACE VIEW SCE 6 WAY



REAR FACE VIEW SCE 6 WAY

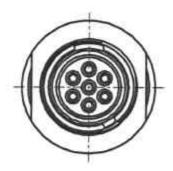


FRONT FACE VIEW SCE 5 WAY

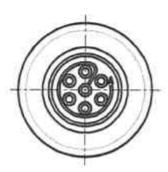


REAR FACE VIEW SCE 5 WAY

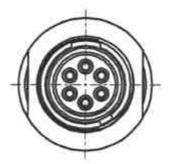
PLUGS - SOCKET CONTACTS ONLY



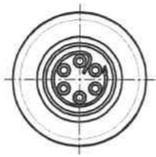
FRONT FACE VIEW SCE 7 WAY



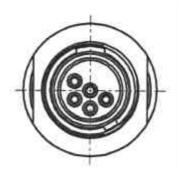
REAR FACE VIEW SCE 7 WAY



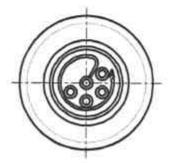
FRONT FACE VIEW SCE 6 WAY



REAR FACE VIEW SCE 6 WAY



FRONT FACE VIEW SCE 5 WAY



REAR FACE VIEW SCE 5 WAY

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					

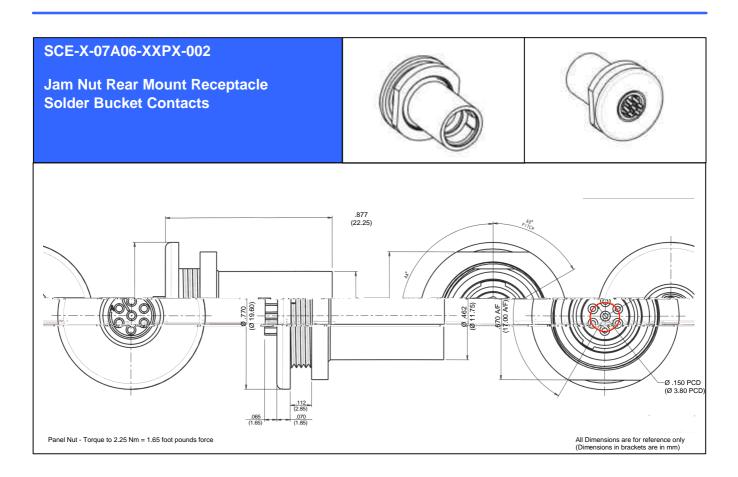
INSERT SPECIFICATIONS							
Contact Arrangement	06-05 / 06-06 / 06-07						
Working Voltage (Sea Level)	115 Vac						
DWV (Sea Level)	500 Vac						
Insulation Resistance (Sea Level)	1GO @ 500 Vdc						
Current Rating (Individual Contact)	3A						
Current Rating (all Contacts Simultaneously)	1A						

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 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				

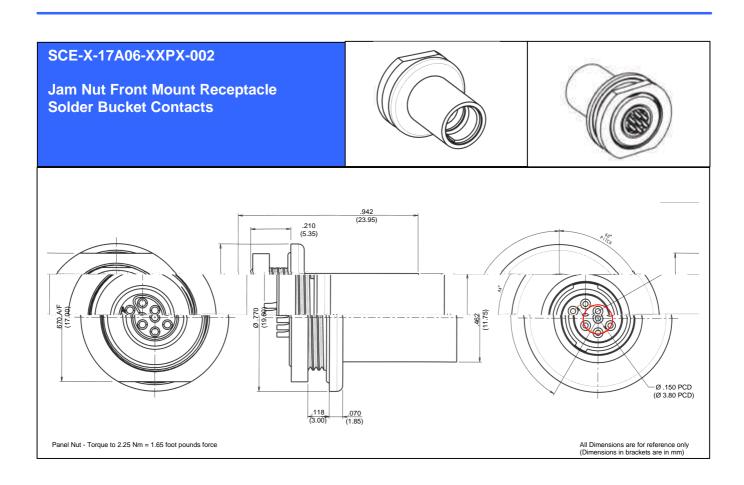
Receptacles have Pin Contacts only

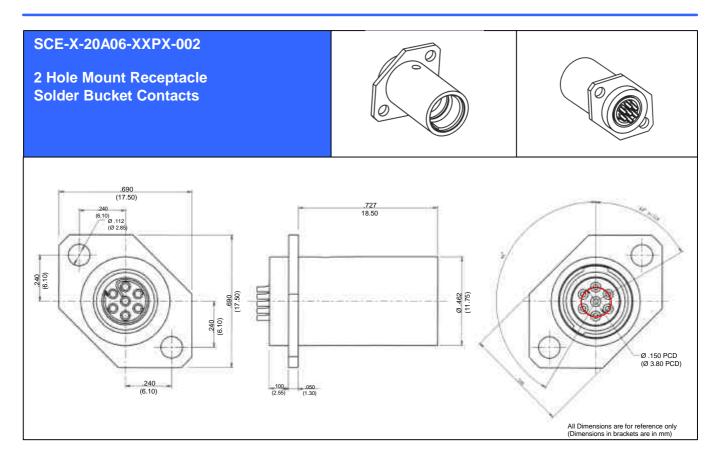
SCE-X-07A06-XXPX-001 Jam Nut Rear Mount Receptacle PCB Contacts ATD Graph (126) Graph (126) Graph (126) Famil Nut - Torque to 2.25 Nm = 1.65 foot pounds force All Dimensions are for reference only (Dimensions in brackets are in min)



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

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

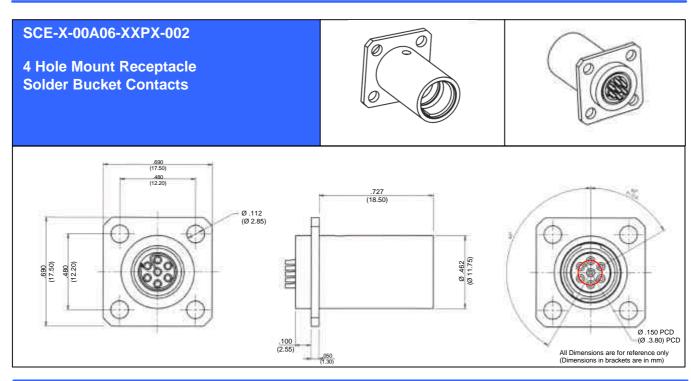


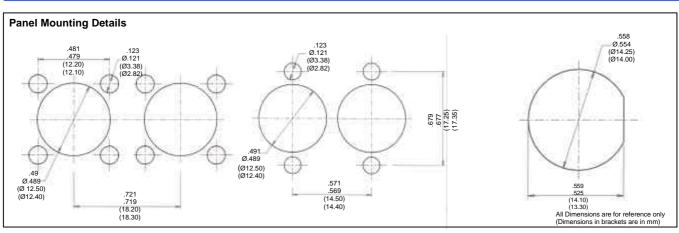


SCE - Table of Styles

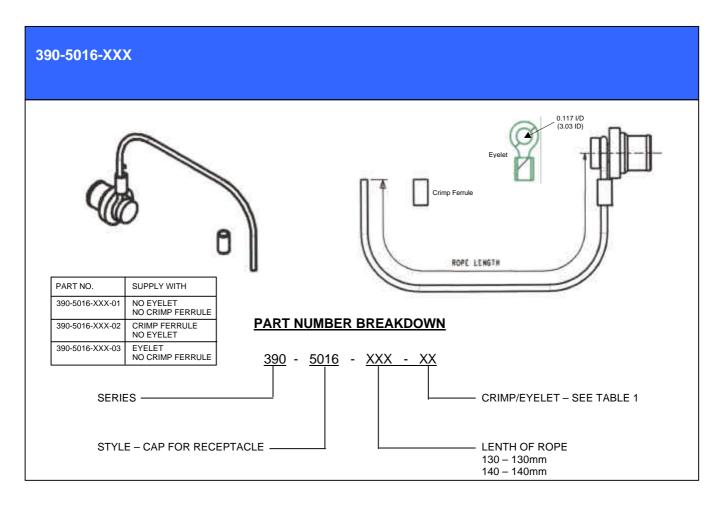
Ø .150 PCD (Ø .3.80 PCD)

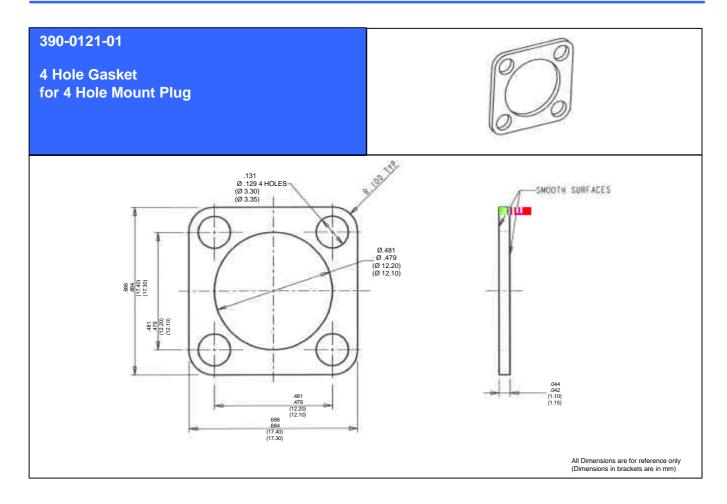
SCE-X-00A06-XXPX-001 4 Hole Mount Receptacle PCB Contacts (990 (17.50) (18.5

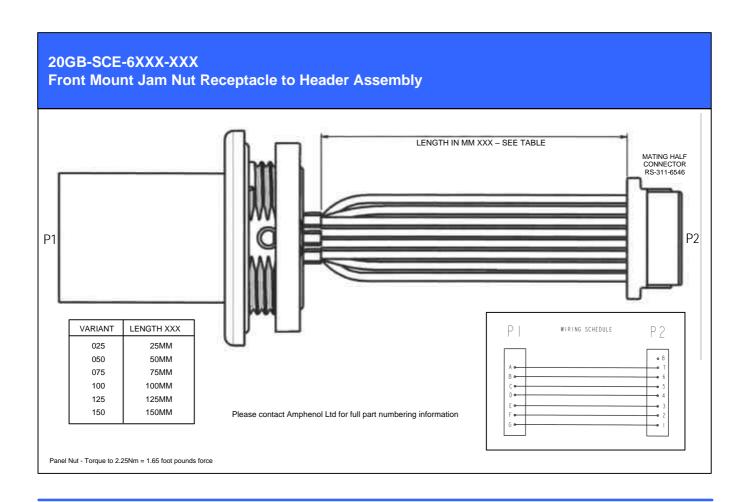


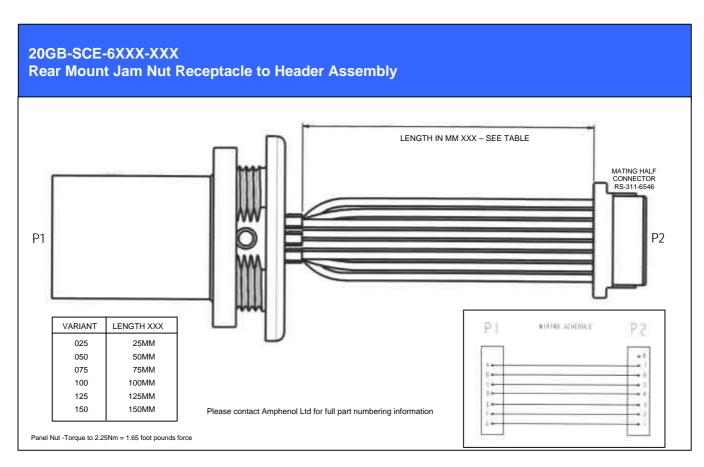


In Line Receptacle Solder Bucket Contacts Crimp Ferule 1.377 (25.01)









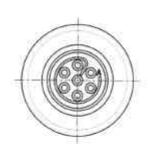
Plugs have Socket Contacts only

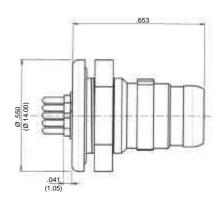
SCE-X-76A06-XXSX-001

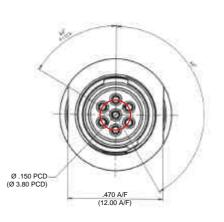
Rear Mount Plug PCB Contacts











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

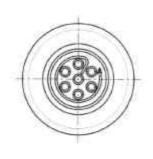
All Dimensions are for reference only (Dimensions in brackets are in mm)

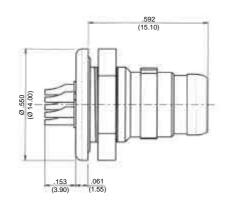
SCE-X-76A06-XXSX-002

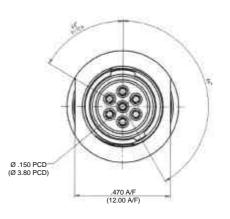
Rear Mount Plug Solder Bucket Contacts







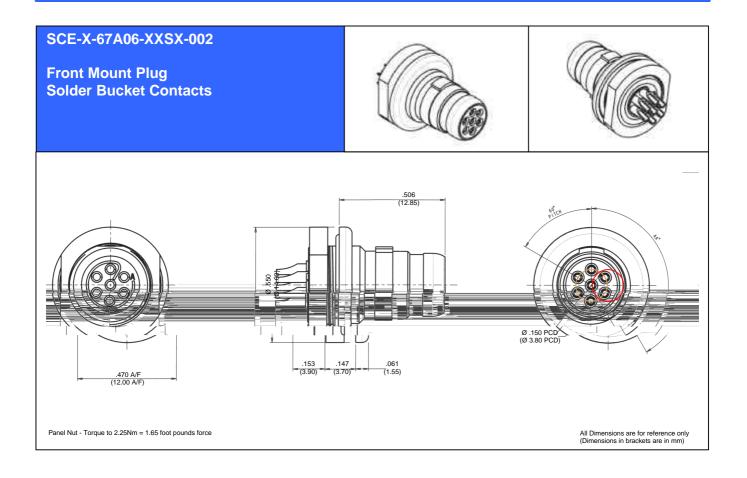




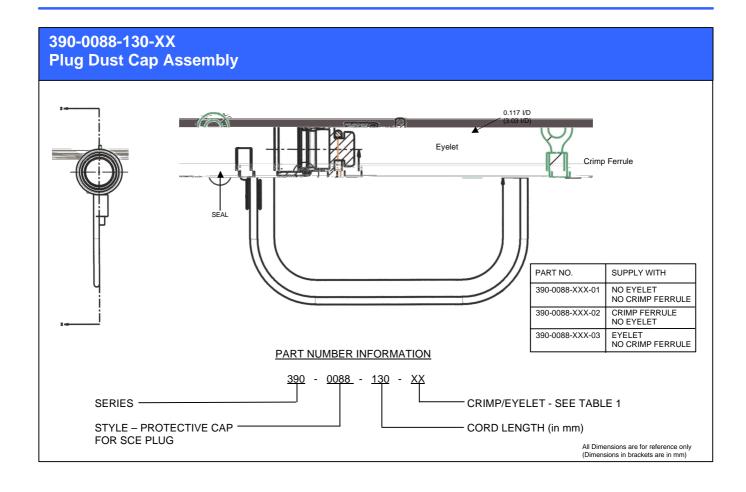
Panel Nut - Torque to 2.25Nm = 1.65 foot pounds force

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

Front Mount Plug PCB Contacts 445 (11.30) 9.150 PCD (9.3.80 PCD) Panel Nat - Torque to 2.25Nm = 1.65 foot pounds force All Dimensions are for reference only (Dimensions are for reference only (Dimensions in brackets are in mm)



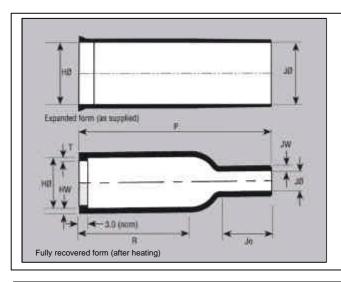
In Line Plug Solder Bucket Contacts only (complete with Backshell) CRIMP FERRULE CRIMP FERRULE (19.75) All Dimensions are for reference only (Chemensions in brackets are in mm)



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

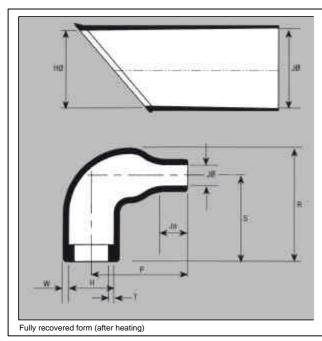


This style is used in conjunction with the backshell (see page 13) providing strain relief and environmental sealing

Dimensions apply to all materials unless otherwise indicated

	Expanded (Min)					vered ax)	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)

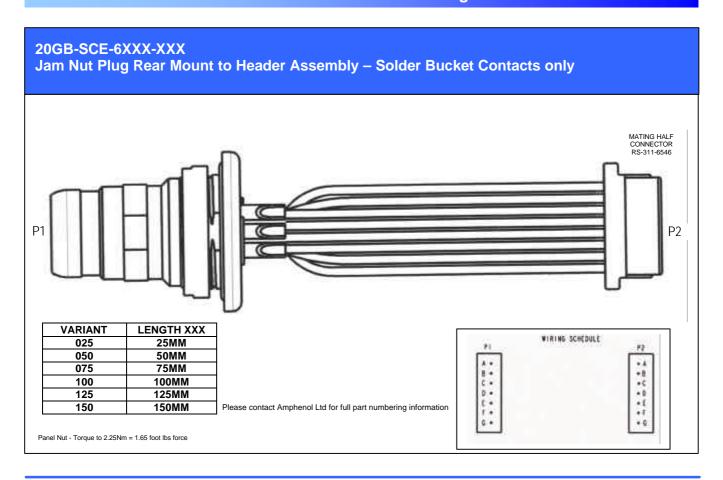
1100 Series - Right Angle Shapes with Rib - MIL Style

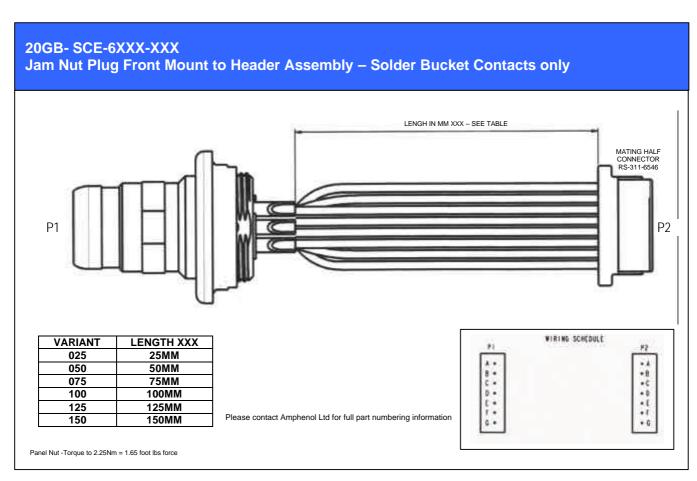


The style provides strain relief for harness systems when used in conjunction with the backshell (see page 13)

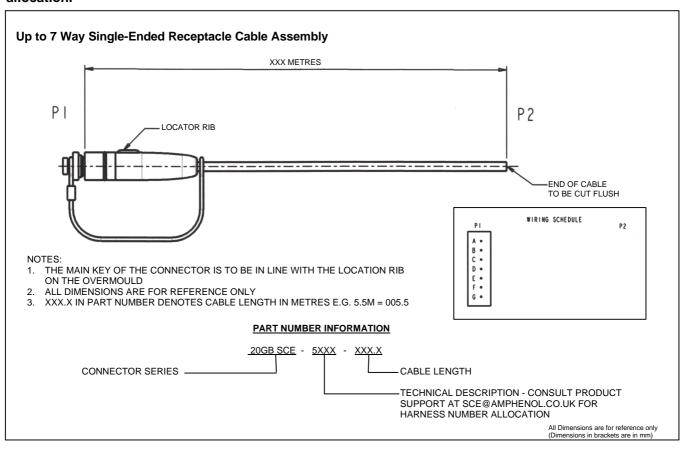
Dimensions apply to all materials unless otherwise indicated

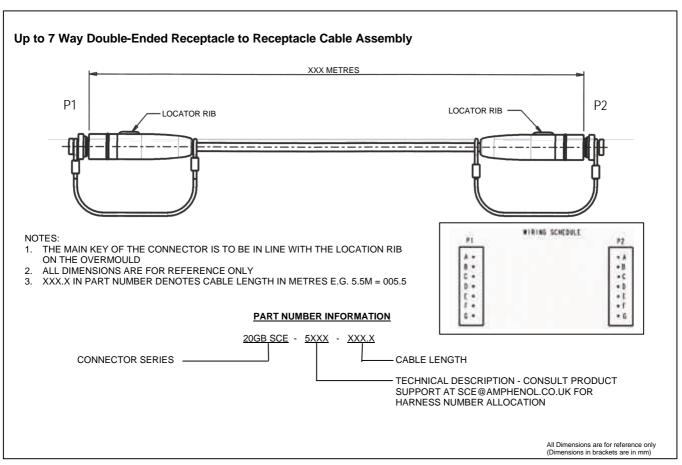
	Expand	led (Min)	Recover	ed (Max)	Recovered Dimensions Fully Shrunk					
Hellermann Part No	Н	Jø	н	Jø	P ±10%	R ±10%	S ±10%	Jo ±10%	W ±20%	T ±20%
1108-4-G-WM250	0.6496 (16.5)	0.6496 (16.5)	0.3110 (7.9)	0.1496	0.6875 (17.3)	0.7969 (20.1)	0.6005 (15.2)	0.1614	0.0394	0.0394

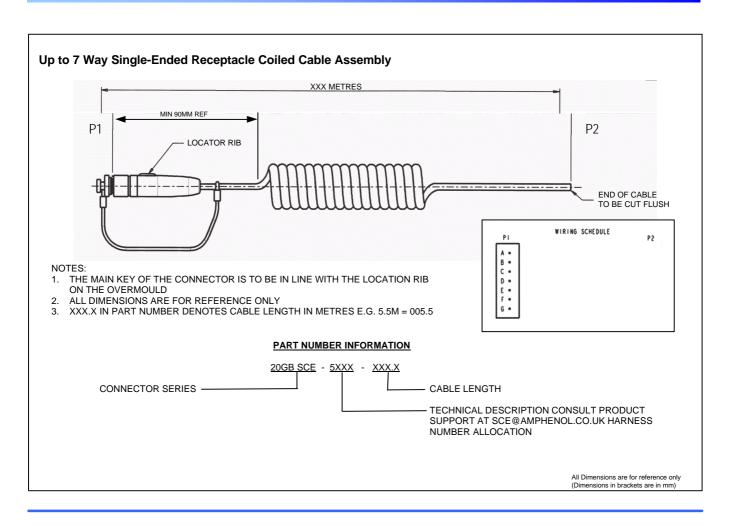


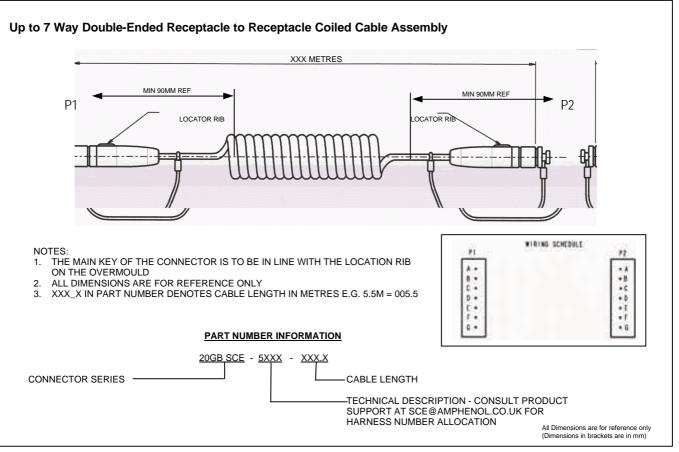


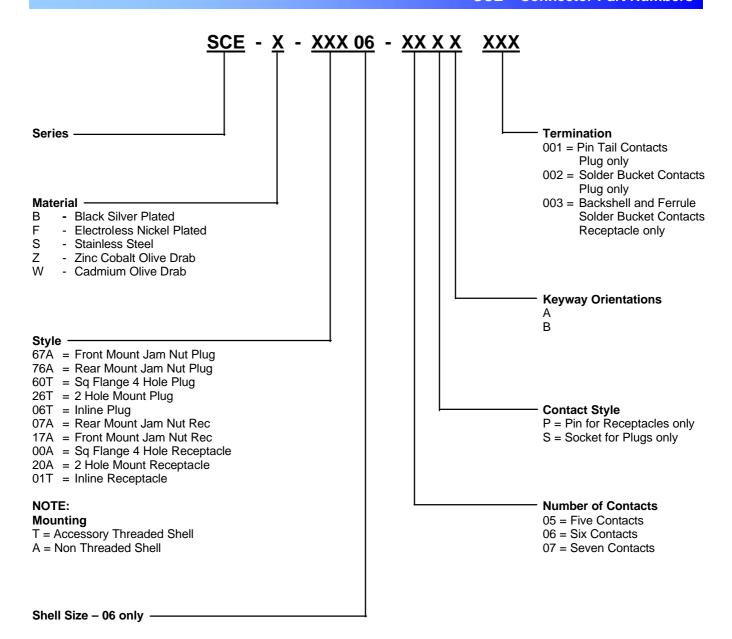
Amphenol Ltd can supply complete overmoulded cable harness solutions to your specifications. The following templates are of common harness configurations. Please consult factory for cable number allocation.











For Braid Termination Style 003

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.





Notice: Products are sold subject to Amphenol's Standard Conditions of Sale. All specifications and statements contained herein are believed to be correct at the time of printing but no representation or warranty, express or implied, is given as to any specification or statement contained herein. Product specifications including performance characteristics are typical only and subject to deviation. Specifications are also subject to change without notice. Users should not assume that all safety measures are indicated or that other measures may not be required. No representation or warranty, express or implied, is given that any use of products (including any stated or suggested use) does not infringe any patent, registered design or other third party rights and no stated or suggested use of products can be taken to recommend any such infringement.

