

Amphenol

the ultimate connection



SCE Series

Interconnect
Solutions



For more information call **210 372 0631**
Amphenol PCD

mhands@amphenolpcd.com

SCE

Snatch Connector Electrical Series

The Ultimate Connector Series



SCE is a miniature product with a silent push to mate and pull to release design across two styles of cable receptacles. All inserts and contacts are moulded in place, achieving high environmental sealing to IP68. The metalwork is machined from brass, giving an increased number of mating cycles over traditional aluminium connectors.

The snatch push pull design is fully grounded and cannot be locked when mated, as the cable receptacle has no moving parts, i.e. coupling nut, thus eliminating the path for the ingress of moisture and dust to the interface. The latch push pull design can be non-grounded or grounded and is locked when mated by rotating the coupling nut fitted to the cable receptacle by 30°. This coupling mechanism locks the connectors together, ensuring that they cannot be inadvertently demated. Both are fitted with internal and external o-rings for sealing.

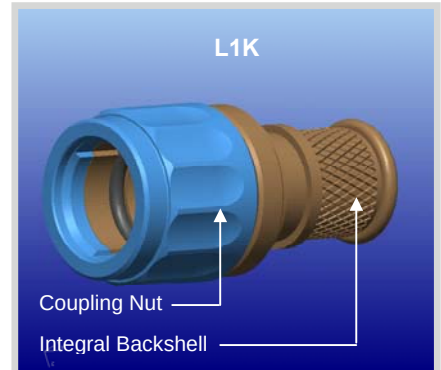
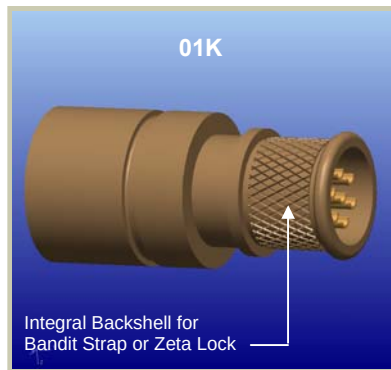
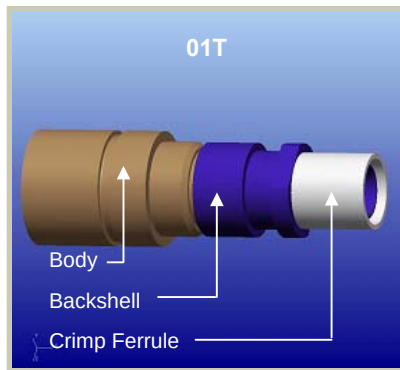
The chassis mounting plug remains unchanged to allow the user to select either a snatch or latch cable receptacle without changing the equipment interface.

Scoop proof shell to shell keying is provided with five different key options of A, B, C, D and N positions, to prevent mis-mating between shells of different operations.

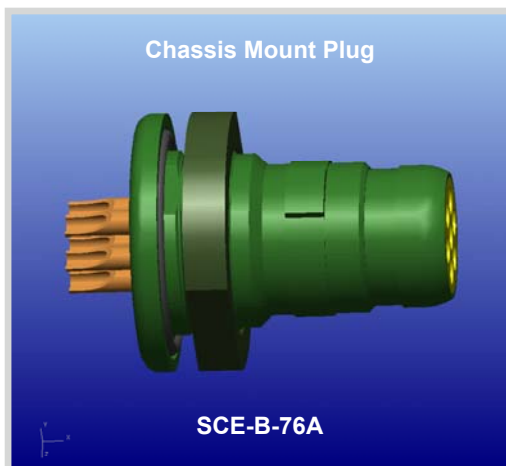
Amphenol offers full cable harness solutions with overmoulding capabilities or, where preferred, a heat shrink boot can be used.



SCE Terminology



SCE Mating Options



**Chassis Mount Plug remains same to
mate with Snatch or Latch Receptacle**

SCE Performance Information

INSERT AVAILABILITY	
06-05	5 #22 AWG Contacts
06-06	6 #22 AWG Contacts
06-07	7 #22 AWG Contacts
07-10A	8 #22 AWG Contacts and 2 #16 AWG Contacts
07-12	12 #22 AWG Contacts
07-14	14 #22 AWG Contacts
08-19	19 #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

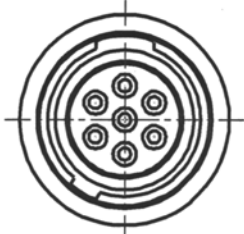
INSERT SPECIFICATIONS	
Working Voltage (Sea Level)	115 Vac
DWV (Sea Level)	500 Vac
Insulation Resistance (Sea Level)	1GΩ @ 500 Vdc
Current Rating (Individual Contact)	3A #22 / 7.5A #16
Current Rating (all Contacts simultaneously)	1A #22 / 5A #16

ENVIRONMENTAL	
Temperature	-55°C / +200°C
Salt Spray Resistance	500 hours
Fluids	As per MIL-C-26482 Series I
Vibration and Shock	As per MIL-C-26482 Series I
IP Rating	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

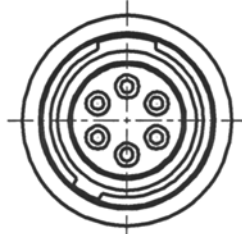
MECHANICAL	
Durability	2000 Matings
Materials	Shell : Brass – Standard plating finish Black Silver
	Contacts : Turned, Gold Plated
	Inserts and Seal : Proprietary Thermoplastic Polyester Elastomer

SCE Insert Availability – Shell Size 06

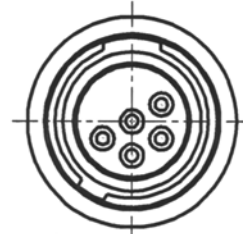
RECEPTACLES – PIN CONTACTS ONLY



FRONT FACE VIEW
SCE 7 WAY



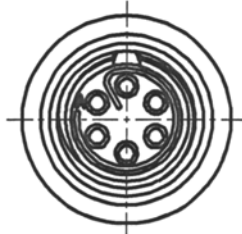
FRONT FACE VIEW
SCE 6 WAY



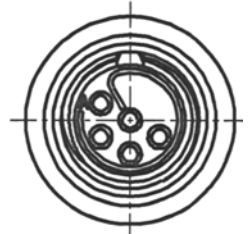
FRONT FACE VIEW
SCE 5 WAY



REAR FACE VIEW
SCE 7 WAY

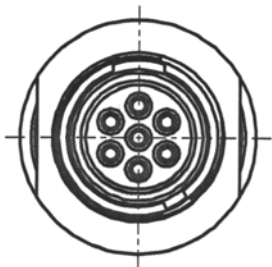


REAR FACE VIEW
SCE 6 WAY

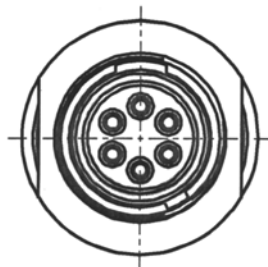


REAR FACE VIEW
SCE 5 WAY

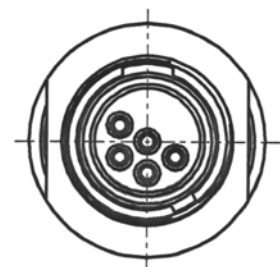
PLUGS – SOCKET CONTACTS ONLY



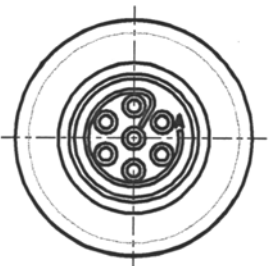
FRONT FACE VIEW
SCE 7 WAY



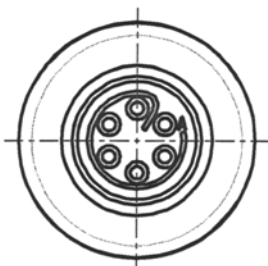
FRONT FACE VIEW
SCE 6 WAY



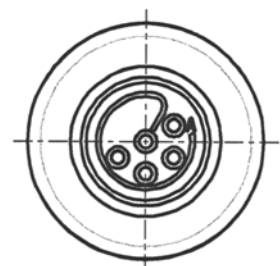
FRONT FACE VIEW
SCE 5 WAY



REAR FACE VIEW
SCE 7 WAY



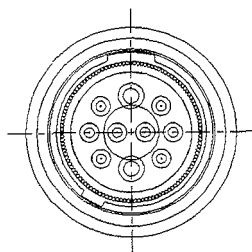
REAR FACE VIEW
SCE 6 WAY



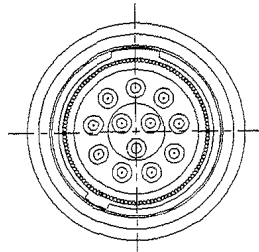
REAR FACE VIEW
SCE 5 WAY

SCE Insert Availability – Shell Size 07

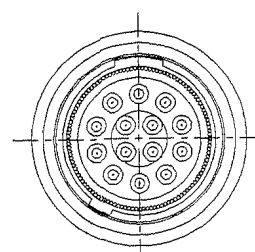
RECEPTACLES – PIN SOCKETS ONLY



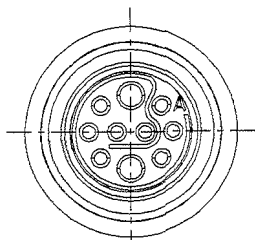
FRONT FACE VIEW
10 WAY



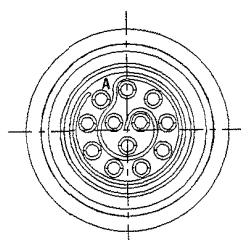
FRONT FACE VIEW
12 WAY



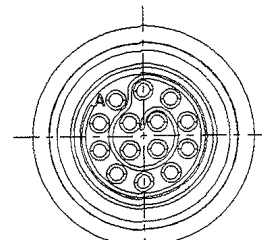
FRONT FACE VIEW
14 WAY



REAR FACE VIEW
10 WAY

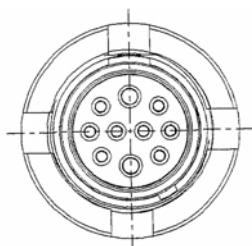


REAR FACE VIEW
12 WAY

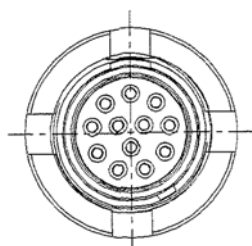


REAR FACE VIEW
14 WAY

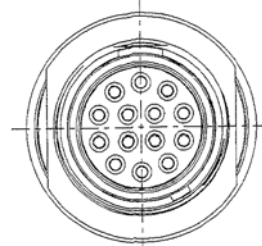
PLUGS – SOCKET CONTACTS ONLY



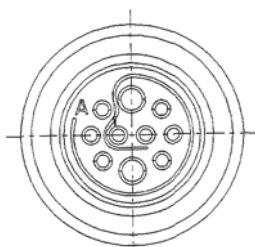
FRONT FACE VIEW
10A WAY



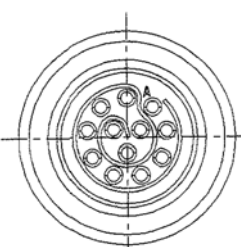
FRONT FACE VIEW
12 WAY



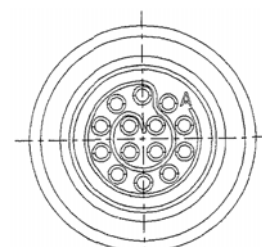
FRONT FACE VIEW
14 WAY



REAR FACE VIEW
10A WAY



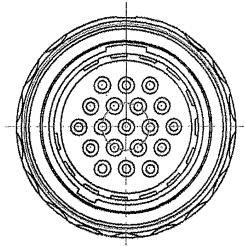
REAR FACE VIEW
12 WAY



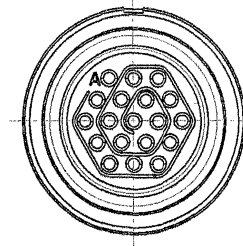
REAR FACE VIEW
14 WAY

SCE Insert Availability – Shell Size 08

RECEPTACLES – PIN CONTACTS ONLY

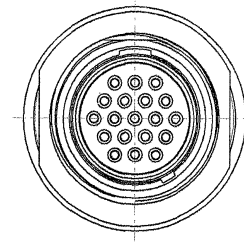


FRONT FACE VIEW
19 WAY

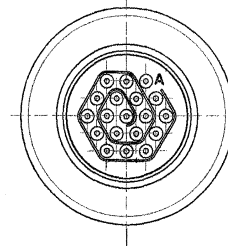


REAR FACE VIEW
19 WAY

PLUGS – SOCKET CONTACTS ONLY



FRONT FACE VIEW
19 WAY



REAR FACE VIEW
19 WAY

SCE Keyway Orientation

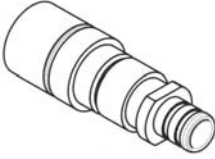
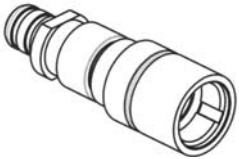
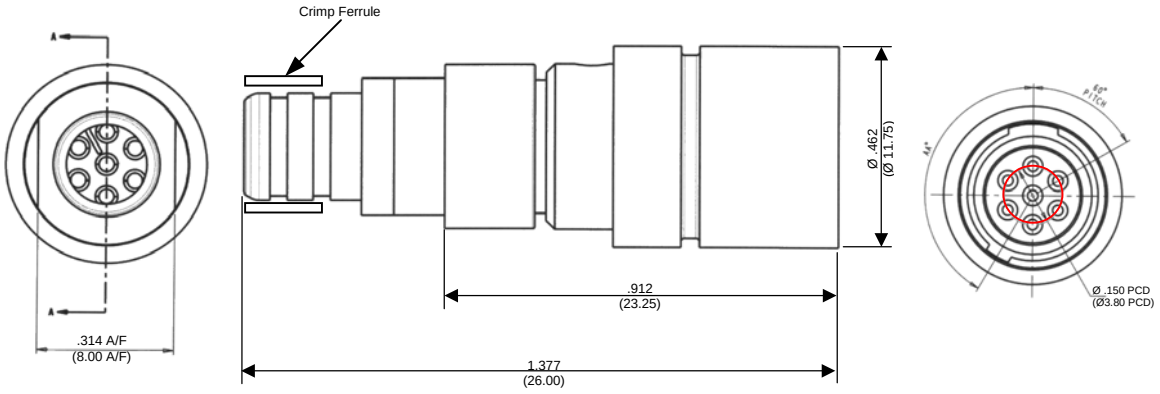
Part Number	Keyway Position	AA'
SCE-B-76A**-**SN-****	NORMAL	180
SCE-B-76A**-**SA-****	A	150
SCE-B-76A**-**SB-***	B	210
SCE-B-76A**-**SC-***	C	120
SCE-B-76A**-**SD-***	D	240

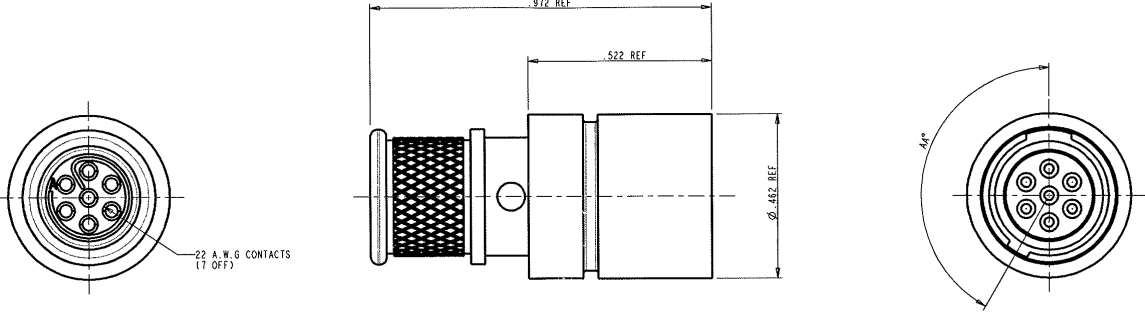
Part Number	Keyway Position	AA'
SCE-B-01K**-**PN	NORMAL	180
SCE-B-01K**-**PA	A	150
SCE-B-01K**-**PB	B	210
SCE-B-01K**-**PC	C	120
SCE-B-01K**-**PD	D	240

Part Number	Keyway Position	AA'
SCE-B-06K**-**PN	NORMAL	180
SCE-B-06K**-**PA	A	150
SCE-B-06K**-**PB	B	210
SCE-B-06K**-**PC	C	120
SCE-B-06K**-**PD	D	240

Part Number	Keyway Position	AA'
SCE-B-L1K**-**PN	NORMAL	180
SCE-B-L1K**-**PA	A	150
SCE-B-L1K**-**PB	B	210
SCE-B-L1K**-**PC	C	120
SCE-B-L1K**-**PD	D	240

SCE Table of Styles – Up to 7 Ways

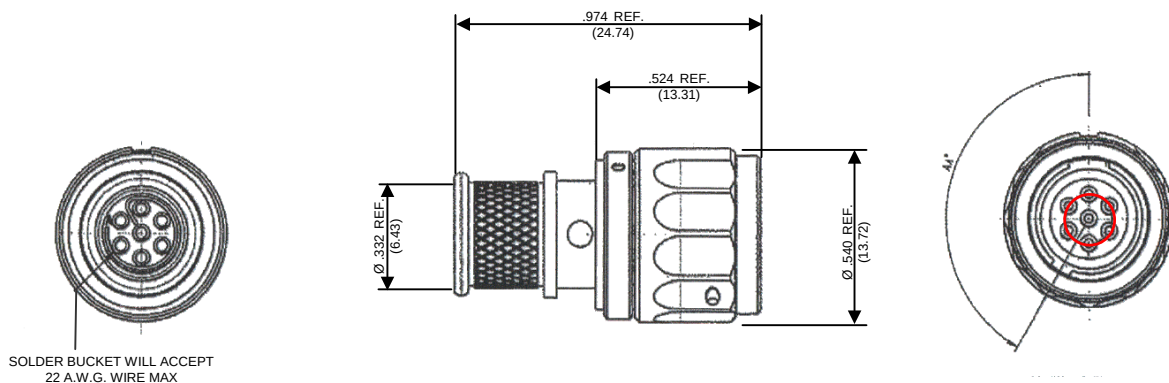
SCE-B-01T06-XXPX-003 In Line Receptacle Solder Bucket Contacts	 
 All Dimensions are for reference only (Dimensions in brackets are in mm)	

SCE-B-01K06-XXPX Snatch In Line Receptacle Integral Backshell Shell Size 06	 
	

SCE Table of Styles – Up to 7 Ways

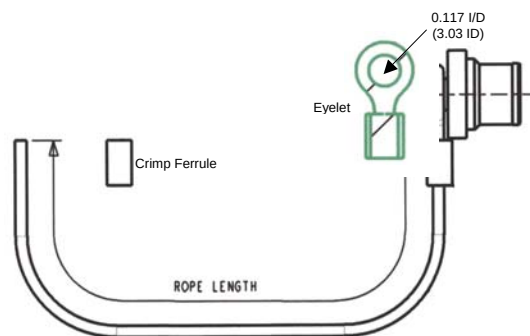
SCE-B-L1K06-XXPX

Latch In Line Receptacle
Integral Backshell,
Non-Grounded (Shell Size 06)



For Grounded Latch connector, please add (985) to the end of part number

390-5016-XXX
Receptacle Dust Cap and Cord
Will suit Snatch and Latch
Shell Size 06



PART NO.	SUPPLY WITH
390-5016-XXX-01	NO EYELET NO CRIMP FERRULE
390-5016-XXX-02	CRIMP FERRULE NO EYELET
390-5016-XXX-03	EYELET NO CRIMP FERRULE

PART NUMBER

390 - 5016 - XXX - XX

SERIES

CRIMP/EYELET

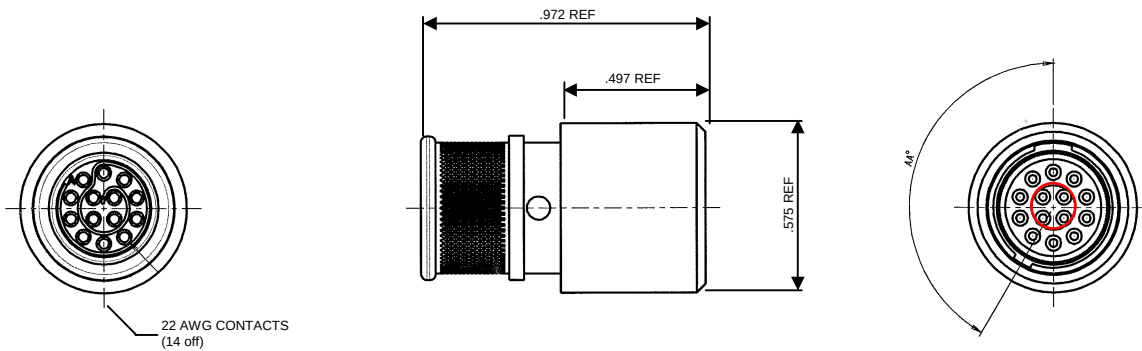
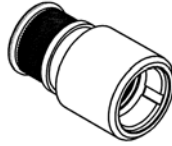
STYLE – CAP FOR RECEPTACLE

LENTH OF ROPE
130 – 130mm
140 – 140mm

SCE Table of Styles – Up to 14 Ways

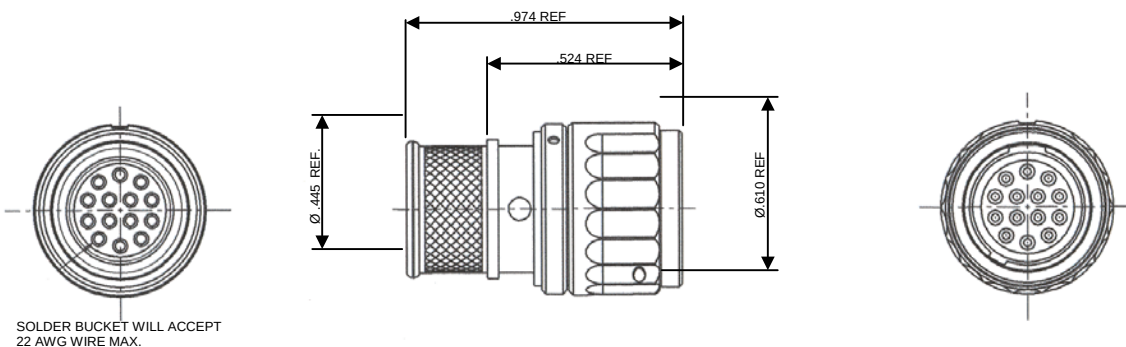
SCE-B-01K07-XXPX

Snatch In Line Receptacle
Integral Backshell
Shell Size 07



SCE-B-L1K07-XXPX

Latch In Line Receptacle
Integral Backshell, Non Grounded
Shell Size 07



For Grounded Latch connector, please add (985) to the end of part number

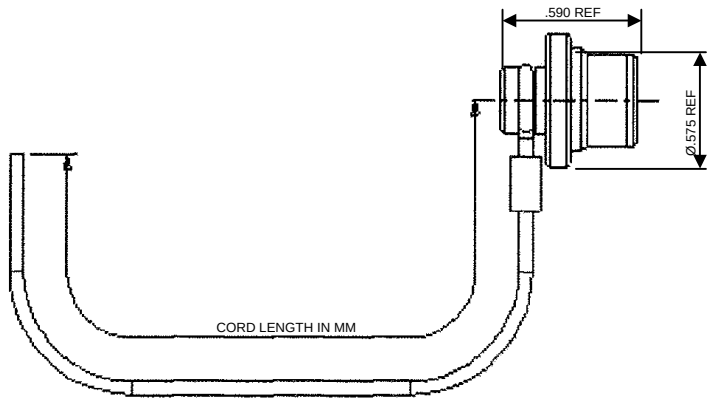
SCE Table of Styles

390-5020-XXX-XX(771)

Receptacle Dust Cap and Cord
Will suit Snatch and Latch
Shell Size 07

Cord is Black
 Eyelet and Crimp Ferrule Black Zinc Cobalt

SEE TABLE 1



PART NUMBER	SUPPLY WITH
390-5020-XXX-01 (771)	NO EYELET NO CRIMP FERRULE
390-5020-XXX-02 (771)	CRIMP FERRULE NO EYELET
390-5020-XXX-03 (771)	EYELET NO CRIMP FERRULE

PART NUMBER BREAKDOWN

390 - 5020 - XXX - XX (771)

SERIES

STYLE

CAP FOR SCE RECEPTACLE

SIZE 07

PLATING DEVIATION – BLACK ZINC COBALT

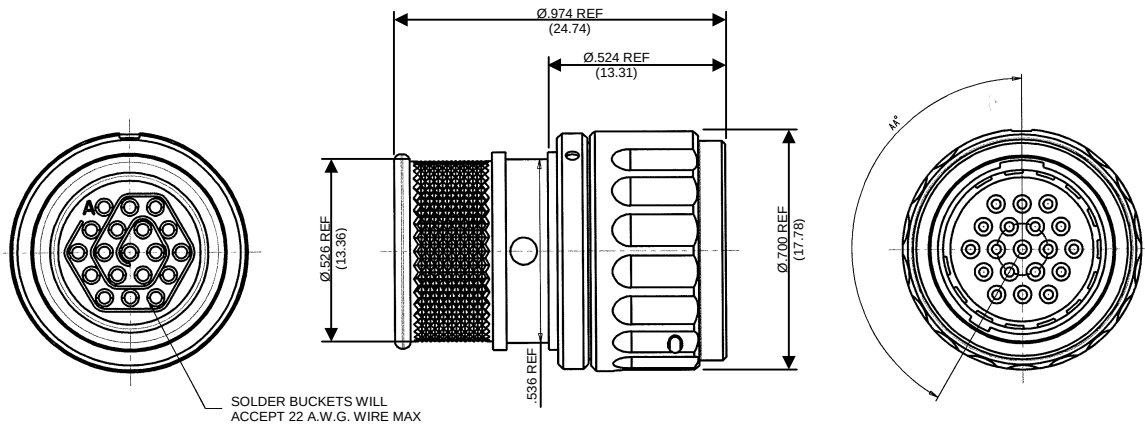
CRIMP/EYELET OPTION

CORD LENGTH IN MILLIMETRES

SCE Table of Styles – Up to 19 Ways

SCE-B-L1K08-XXPX

Latch In Line Receptacle
Integral Backshell, Non-Grounded
Shell Size 08

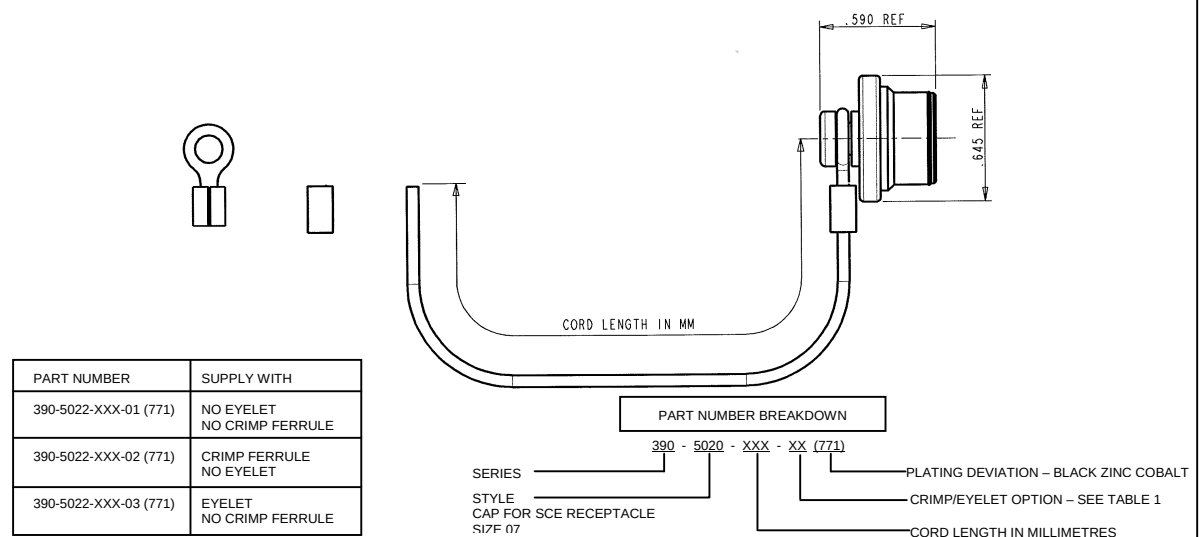


For Grounded Latch connector, please add (985) to the end of part number

390-5022-XXX-XX(771)

Receptacle Dust Cap and Cord
Will suit Snatch and Latch
Shell Size 08

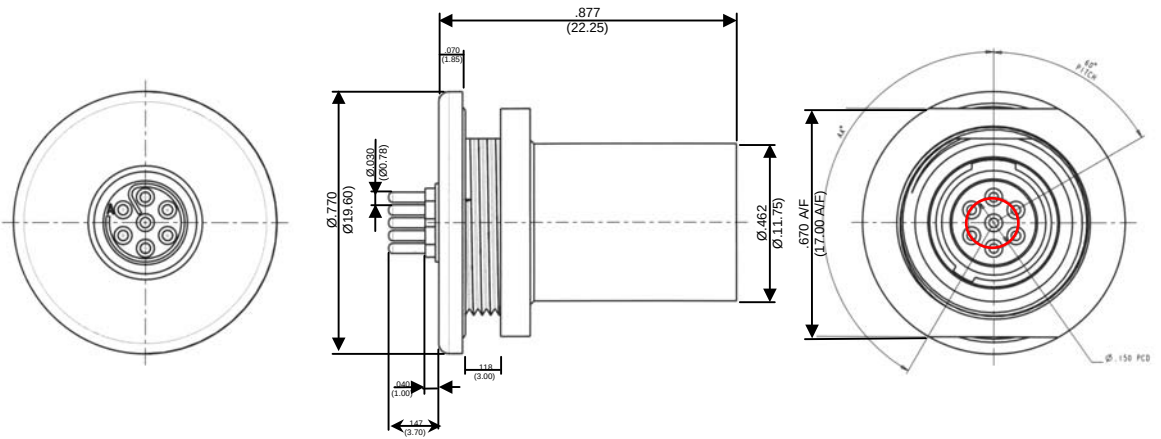
Cord is Black
Eyelet and Crimp Ferrule Black Zinc Cobalt



SCE Table of Styles

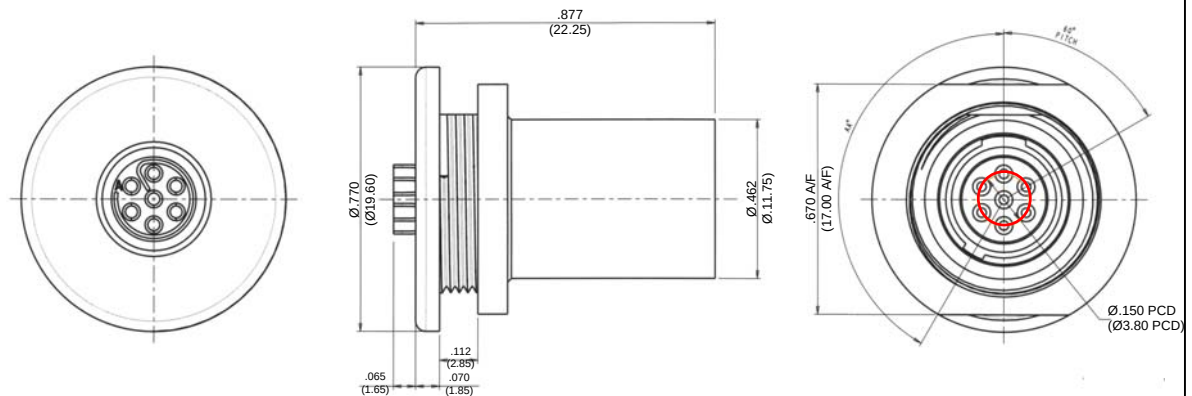
SCE-B-07A06-XXPX-001

Jam Nut Rear Mount Receptacles
PCB Contacts



SCE-B-07A06-XXPX-002

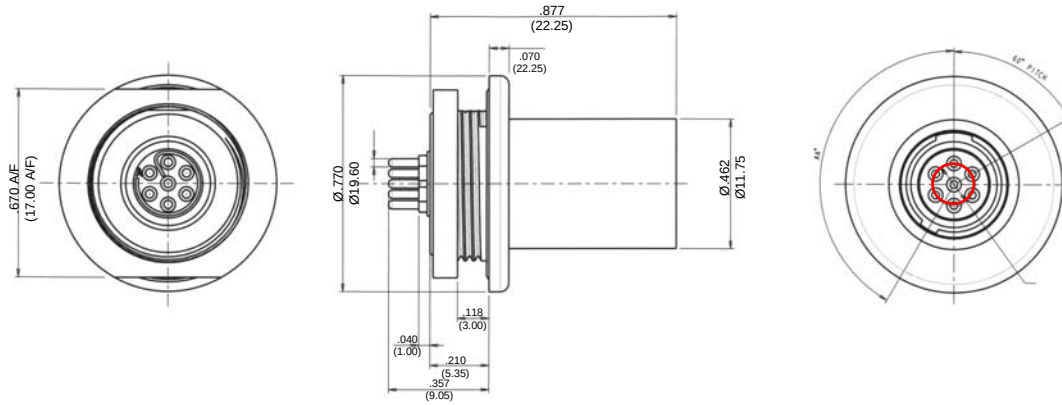
Jam Nut Rear Mount Receptacles
Solder Bucket Contacts



SCE Table of Styles

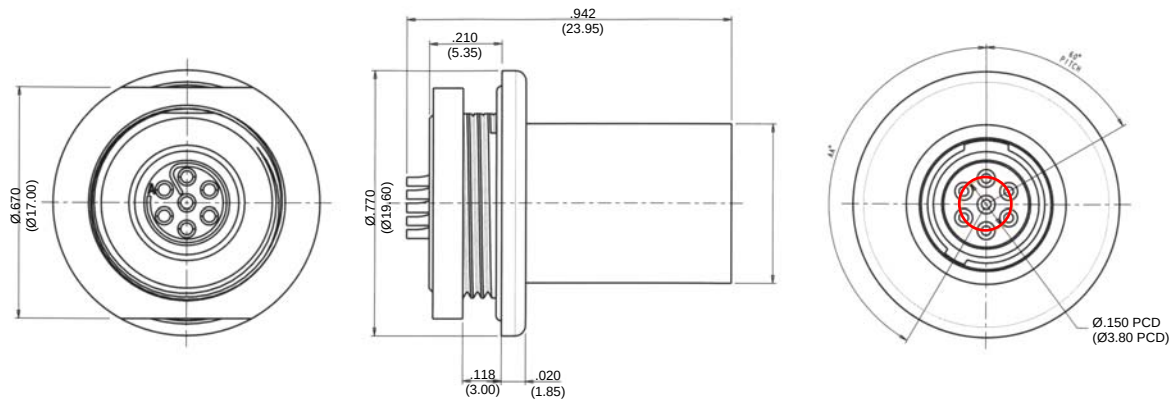
SCE-B-17A06-XXPX-001

Jam Nut Front Mount Receptacles
PCB Contacts



SCE-B-17A06-XXPX-002

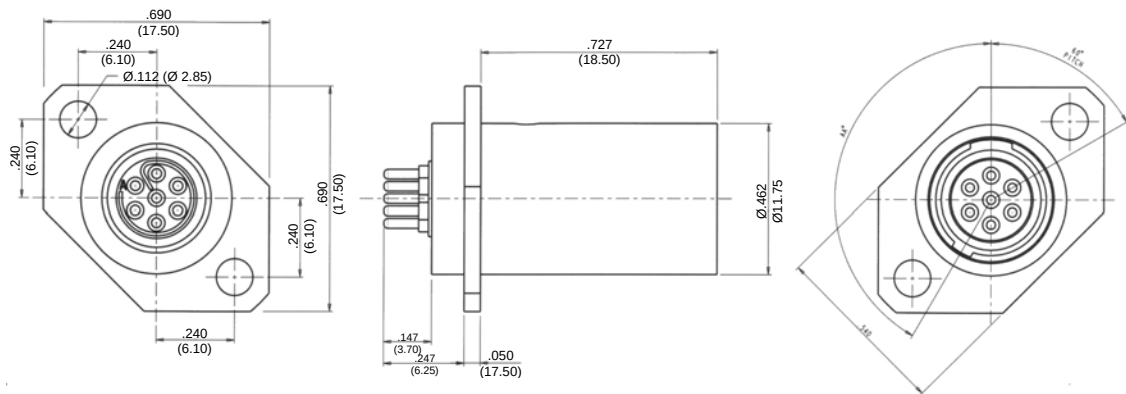
Jam Nut Front Mount Receptacles
Solder Bucket Contacts



SCE Table of Styles

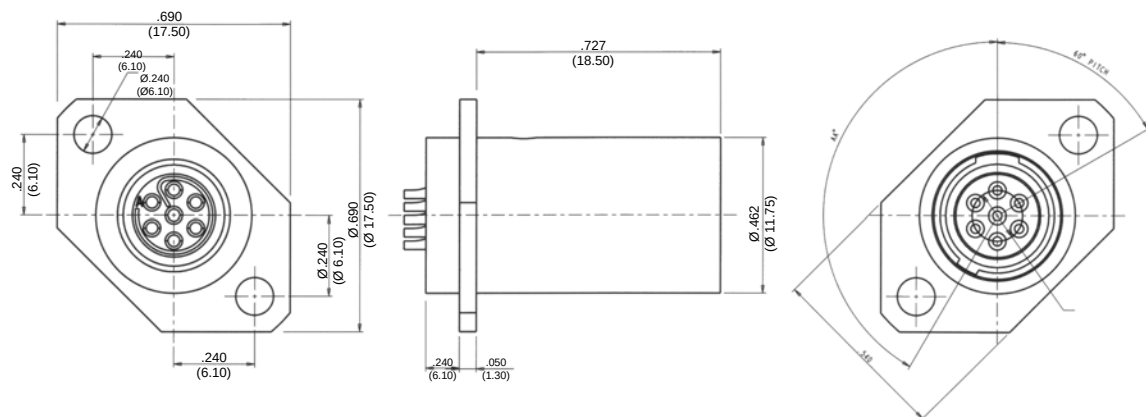
SCE-B-20A06-XXPX-001

2 Hole Mount Receptacle
PCB Contacts



SCE-B-20A06-XXPX-002

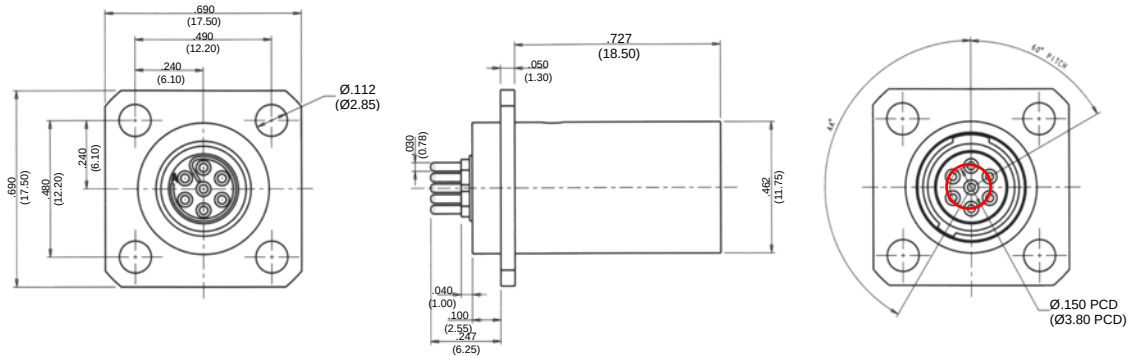
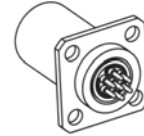
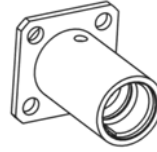
2 Hole Mount Receptacle
Solder Bucket Contacts



SCE Table of Styles

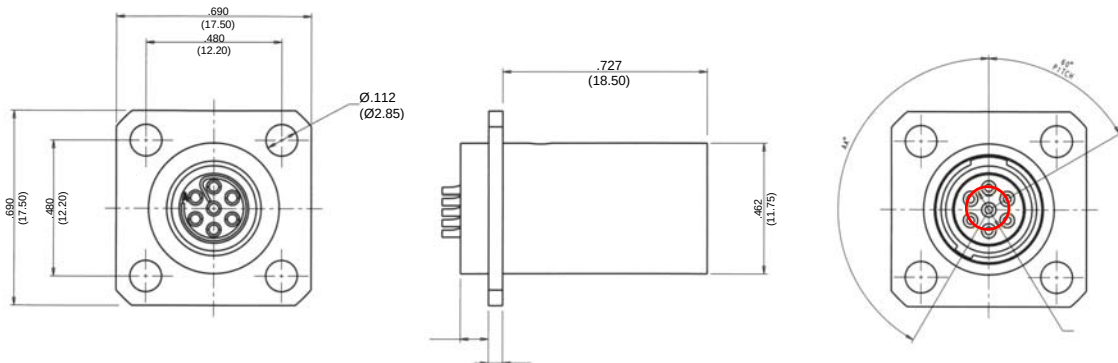
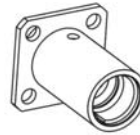
SCE-B-00A06-XXPX-001

4 Hole Mount Receptacle PCB Contacts

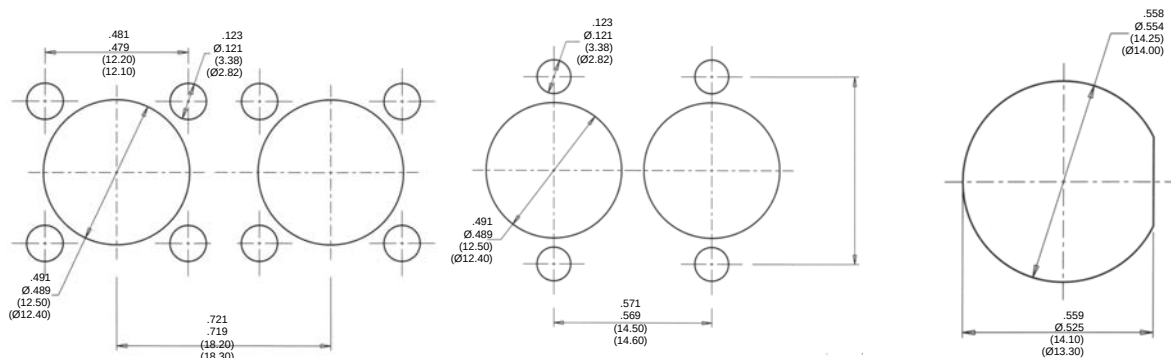


SCE-B-00A06-XXPX-002

4 Hole Mount Receptacle Solder Bucket Contacts



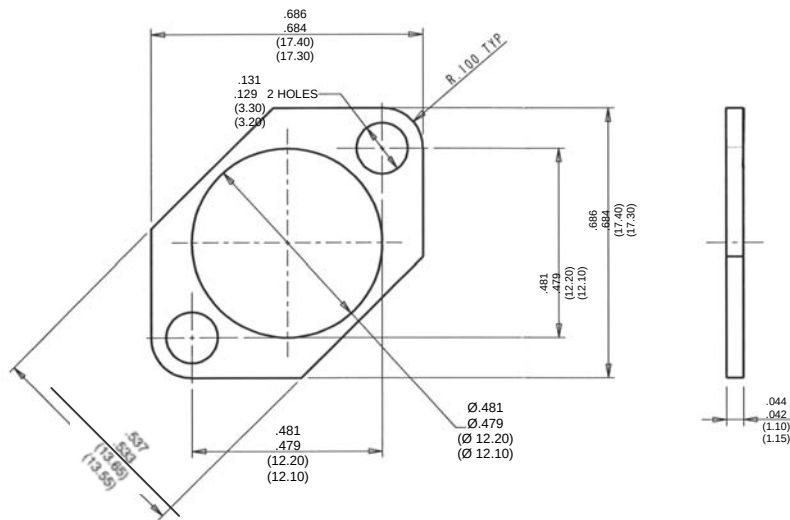
Panel Mounting Details – Shell Size 06



SCE Table of Styles

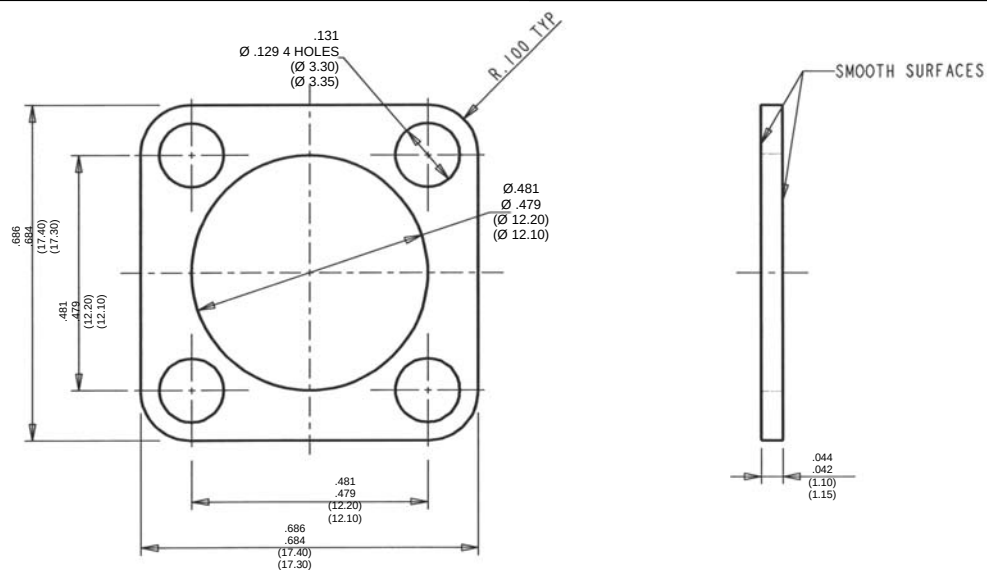
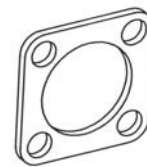
390-0120-01

2 Hole Gasket
for 2 Hole Mount Plug



390-0121-01

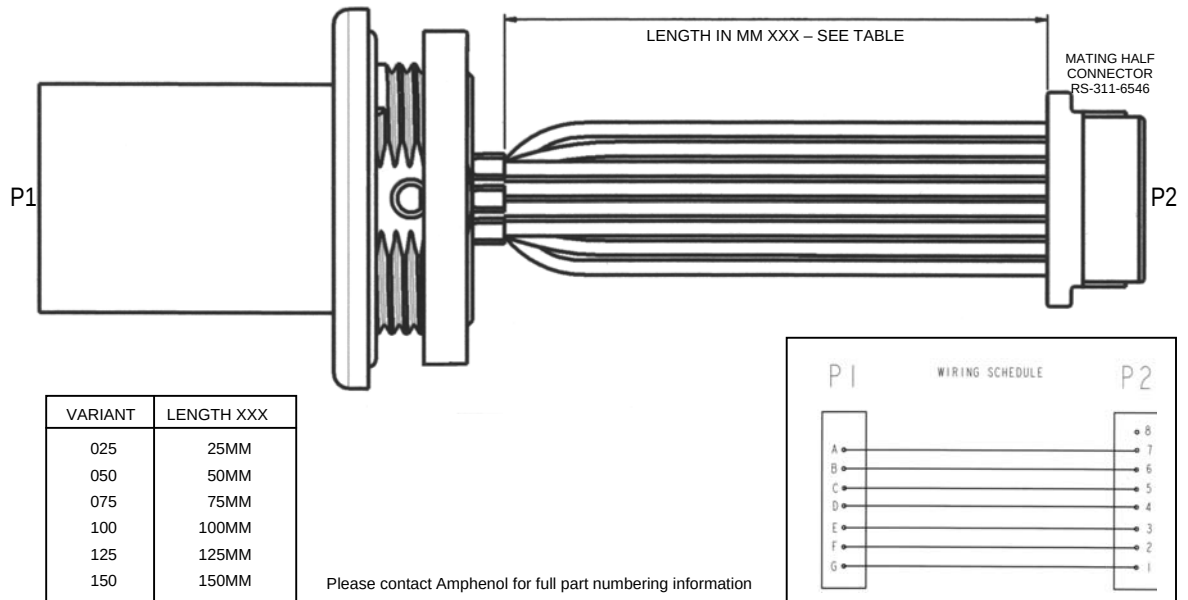
4 Hole Gasket
for 4 Hole Mount Plug



SCE Table of Styles

20GB-SCE-6XXX-XXX

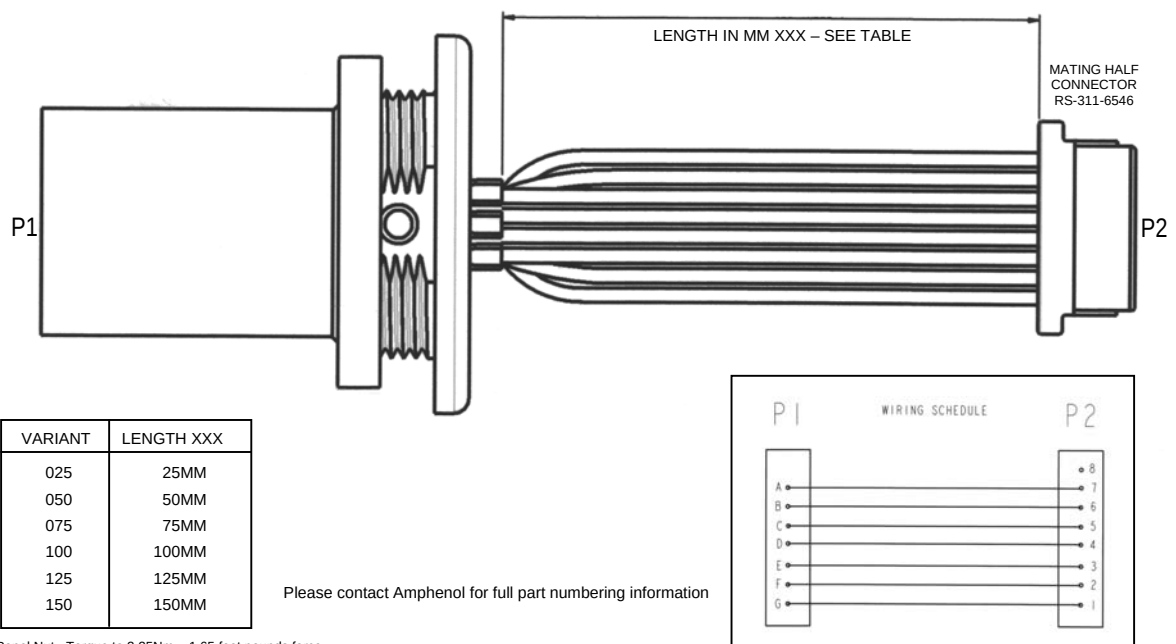
Front Mount Jam Nut Receptacle to Header Assembly



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

20GB-SCE-6XXX-XXX

Rear Mount Jam Nut Receptacle to Header Assembly

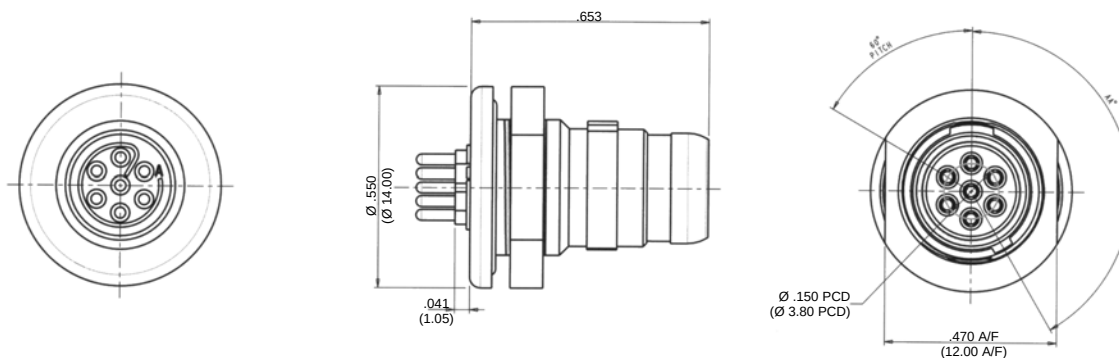


Panel Nut - Torque to 2.25Nm = 1.65 foot pounds force

SCE Table of Styles – Up to 7 Ways

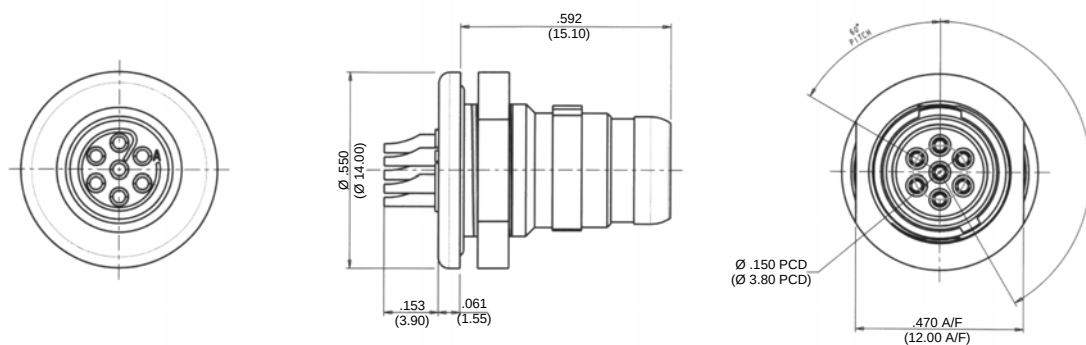
SCE-X-76A06-XXSX-001

**Rear Mount Plug
PCB Contacts**



SCE-X-76A06-XXSX-002

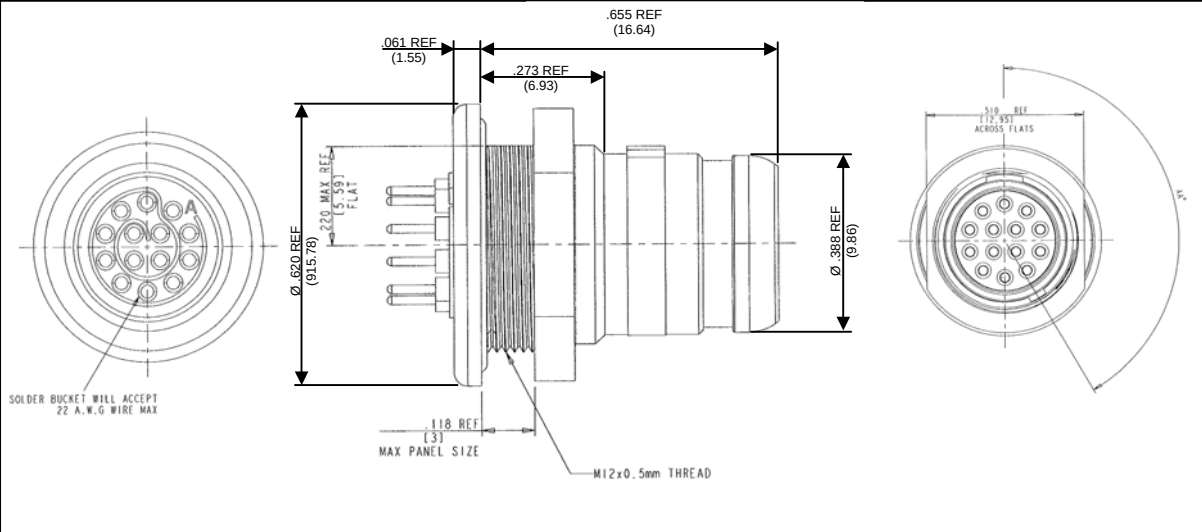
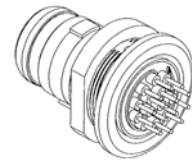
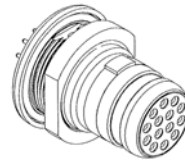
**Rear Mount Plug
Solder Bucket Contacts**



SCE Table of Styles – Up to 14 Ways

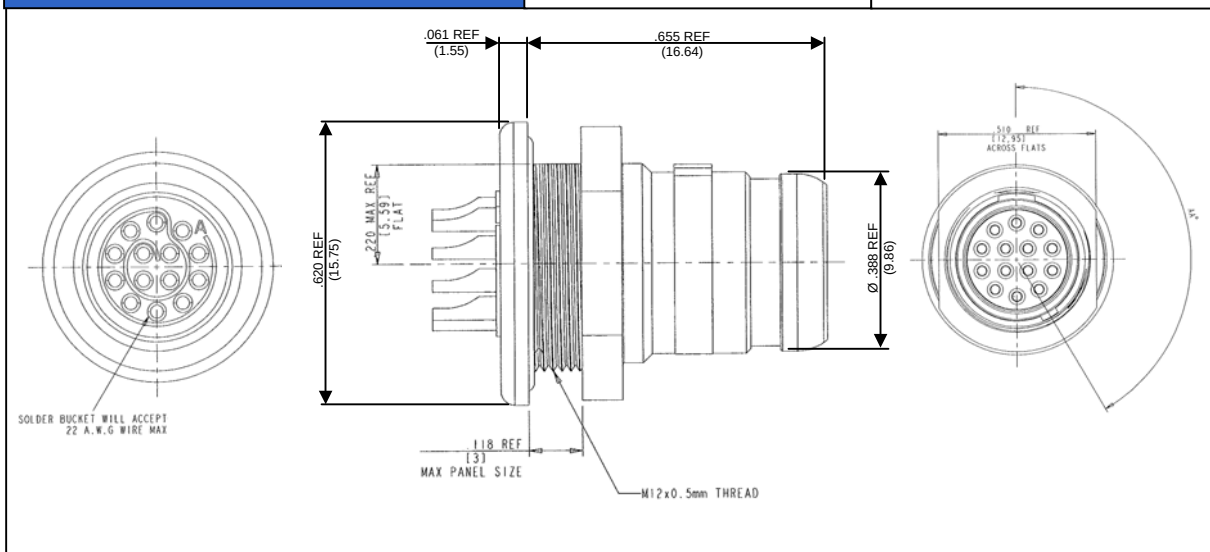
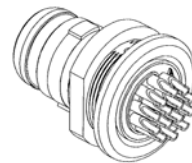
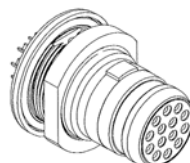
SCE-B-76A07-XXSX-001

**Jam Nut Front Mount Plug
PCB Bucket Contacts**



SCE-B-76A07-XXSX-002

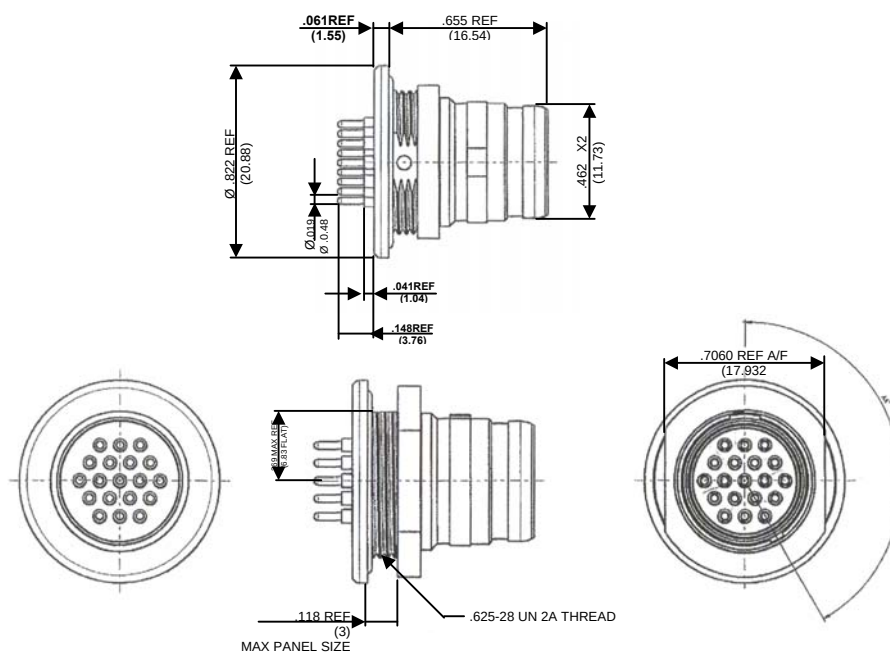
**Jam Nut Front Mount Plug
Solder Bucket Contacts**



SCE Table of Styles – Up to 19 Ways

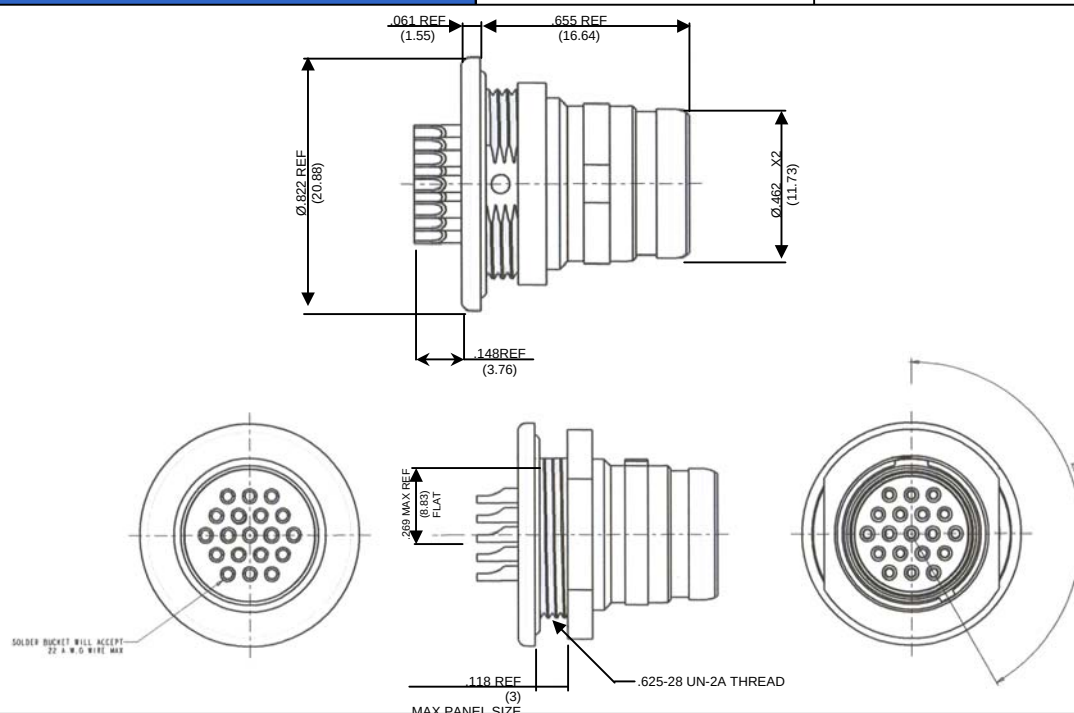
SCE-B-76A08-19SX-001

**Jam Nut Front Mount Plug
PCB Bucket Contacts**



SCE-B-76A08-19SX-002

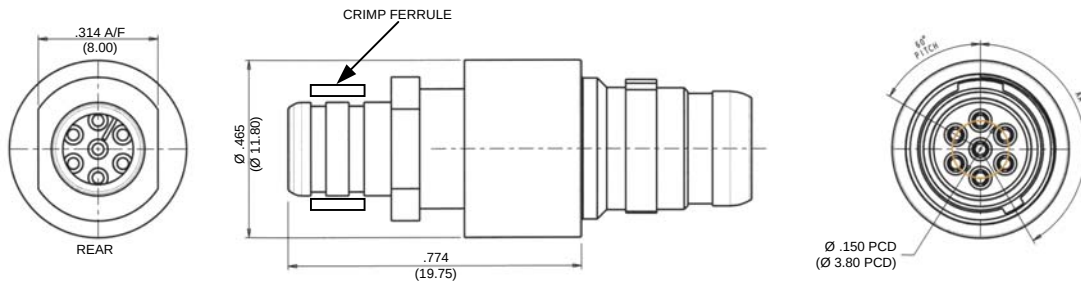
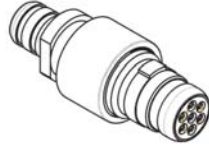
**Jam Nut Front Mount Plug
Solder Bucket Contacts**



SCE Table of Styles – Up to 7 Ways

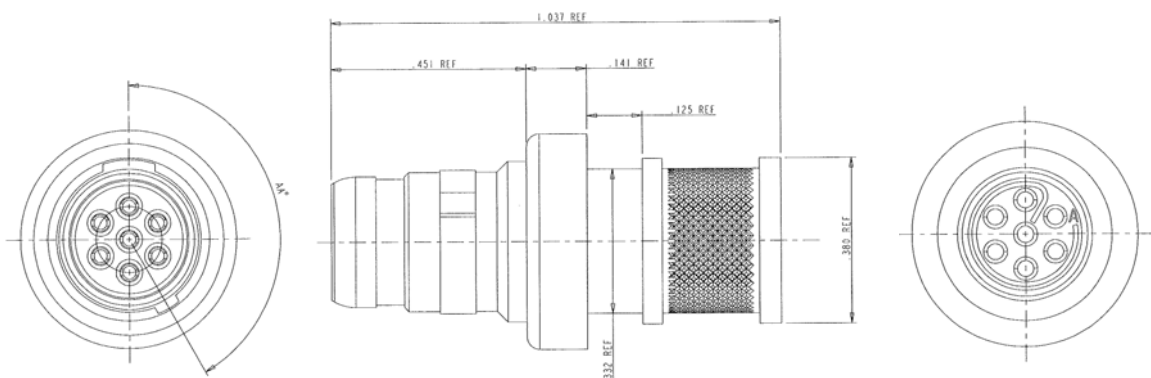
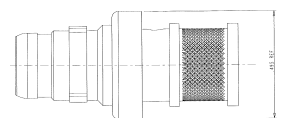
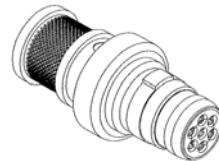
SCE-X-06T06-XXSX-003

In Line Plug
Solder Bucket Contacts only
(complete with Backshell)



SCE-B-06K06-XXPX

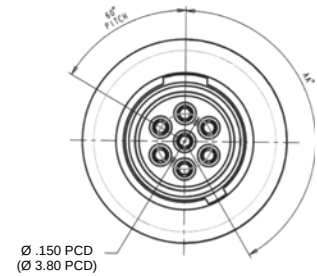
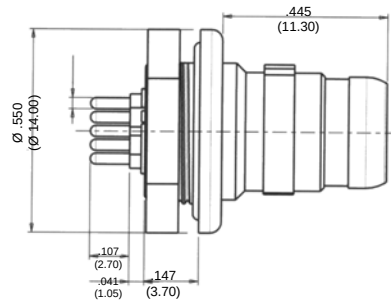
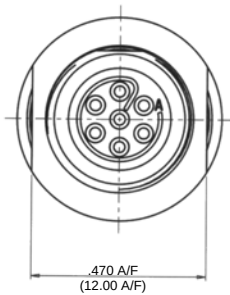
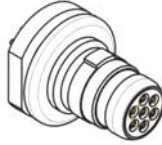
In Line Plug
Integral Backshell, Solder Bucket Contacts
Shell Size 06



SCE Table of Styles – Up to 7 Ways

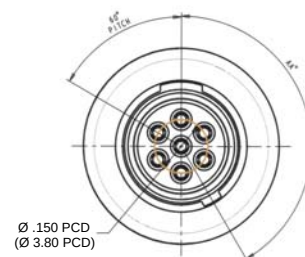
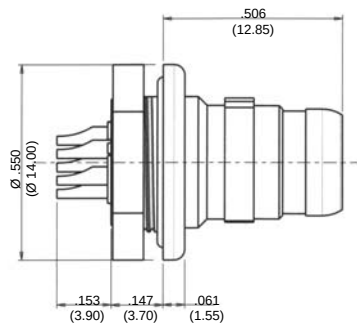
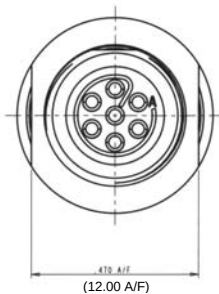
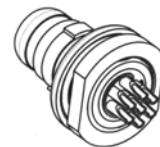
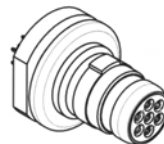
SCE-X-67A06-XXSX-001

Front Mount Plug PCB Contacts



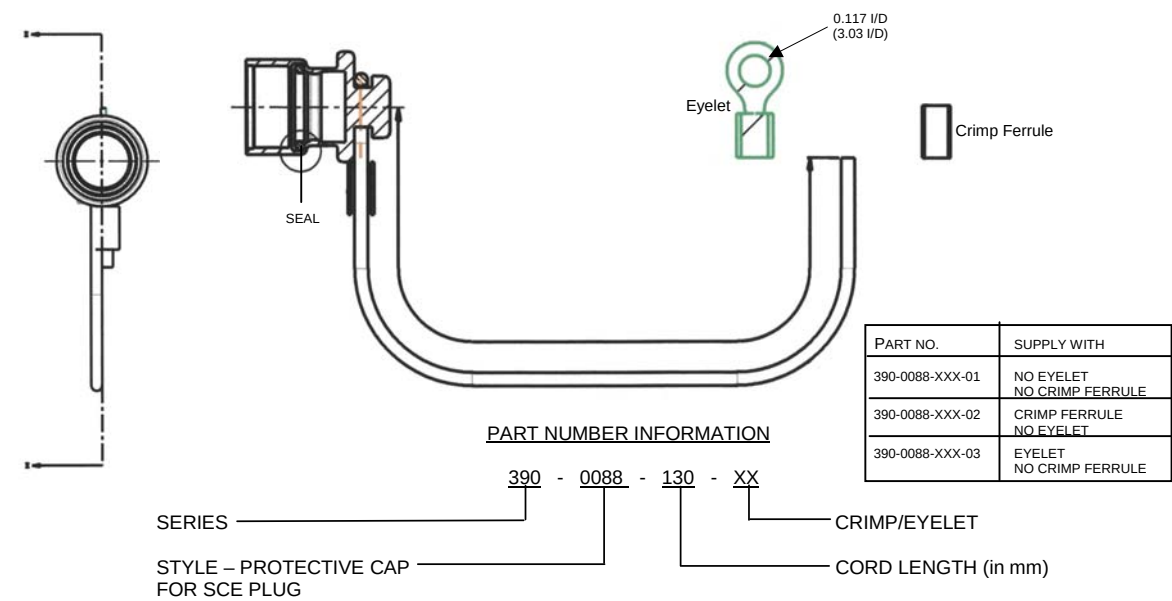
SCE-X-67A06-XXSX-002

Front Mount Plug Solder Bucket Contacts



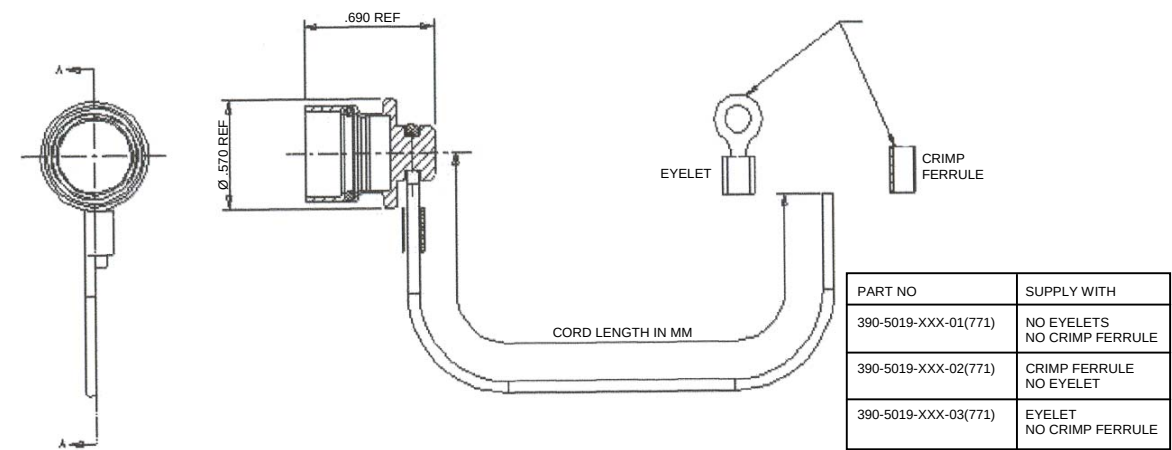
SCE Table of Styles

390-0088-130-XX
Plug Dust Cap and Cord
Will suit Plugs
Shell Size 06



390-5019-XXX-XX(771)
Receptacle Dust Cap and Cord
Will suit Snatch and Latch
Shell Size 07

Cord is Black
Eyelet and crimp ferrule black zinc cobalt

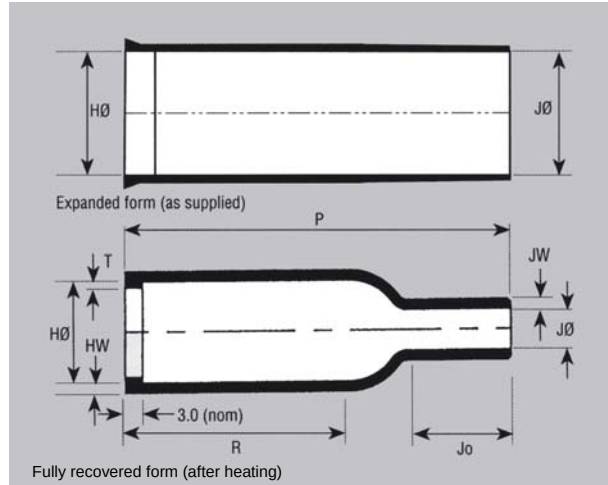


Heatshrink Boots

100 Series – Bottle Shapes with Rib – MIL Style

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.

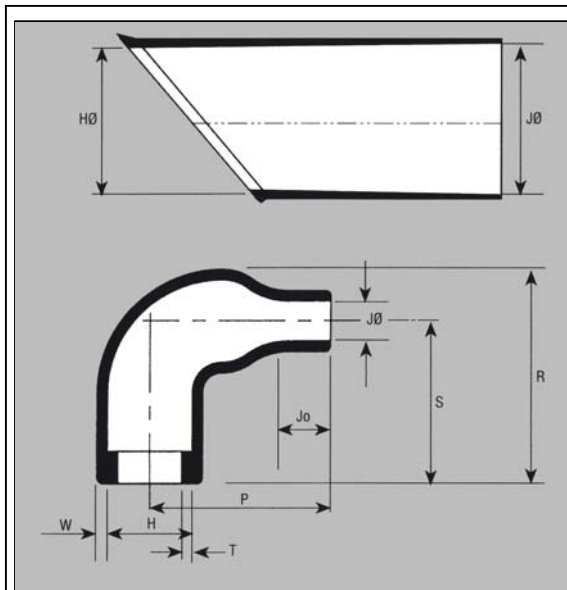


This style is used in conjunction with the backshell (see page 13) providing strain relief and environmental sealing

Dimensions apply to all materials unless otherwise indicated

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)
104-4-G-WM250	0.6456 (16.4)	0.6456 (16.4)	0.6456 (16.4)	0.6456 (16.4)	0.3110 (7.9)	0.149 (3.8)	1.0 (25.4)	0.5590 (14.2)	0.2716 (6.9)	0.0512 (1.3)	0.0512 (1.3)	0.0394 (1.0)

1100 Series – Right Angle Shapes with Rib – MIL Style



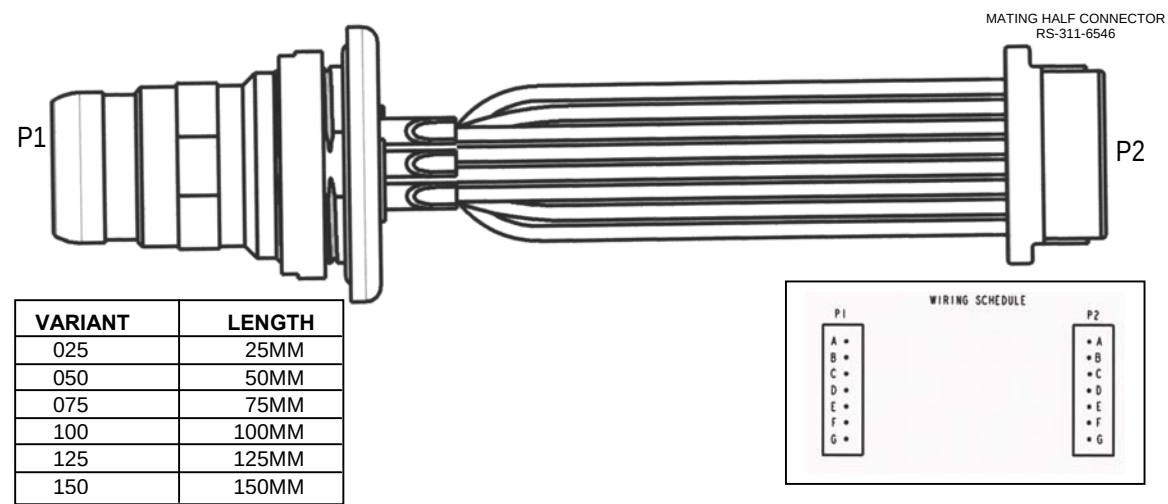
The style provides strain relief for harness systems when used in conjunction with the backshell (see page 13)

Dimensions apply to all materials unless otherwise indicated

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)
1106-4-G-WM250	0.9173 (23.3)	0.9173 (23.3)	0.4094 (10.04)	0.2204 (5.6)	0.7992 (20.3)	0.9015 (22.9)	0.6005 (15.2)	0.2283 (5.8)	0.0511 (1.3)	0.0394 (1.0)

SCE Plug to Header Cable Assemblies

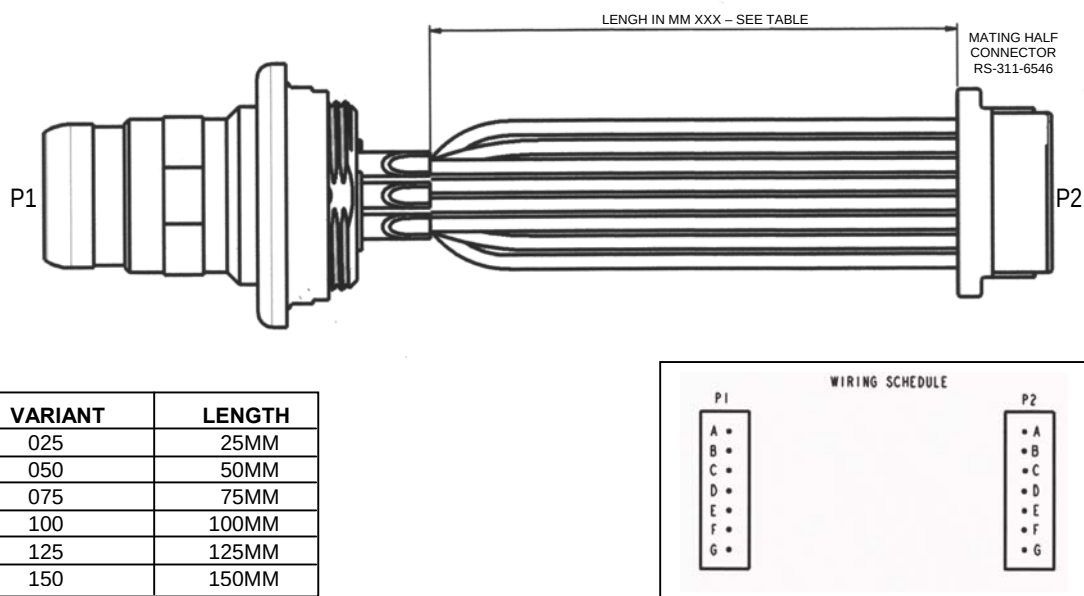
20GB-SCE-6XXX-XXX Jam Nut Plug Rear Mount to Header Assembly – Solder Bucket Contacts only



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

Please contact Amphenol for full part numbering information

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



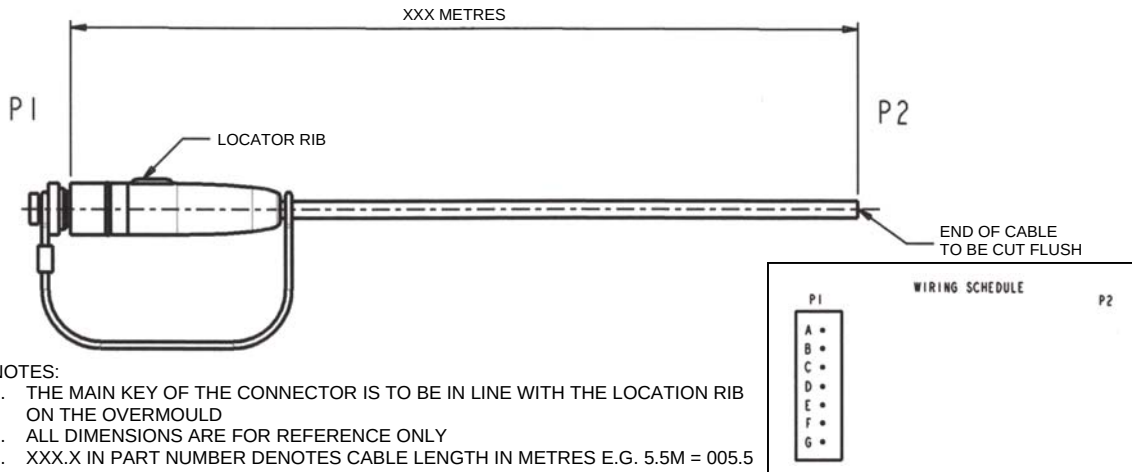
Panel Nut - Torque to 2.25Nm = 1.65 foot lbs force

Please contact Amphenol for full part numbering information

SCE - Cable Assemblies

Amphenol can supply complete overmoulded cable harness solutions to your specifications.
Please consult factory for cable number allocation.

Up to 7 Way Single-Ended Receptacle Cable Assembly



NOTES:

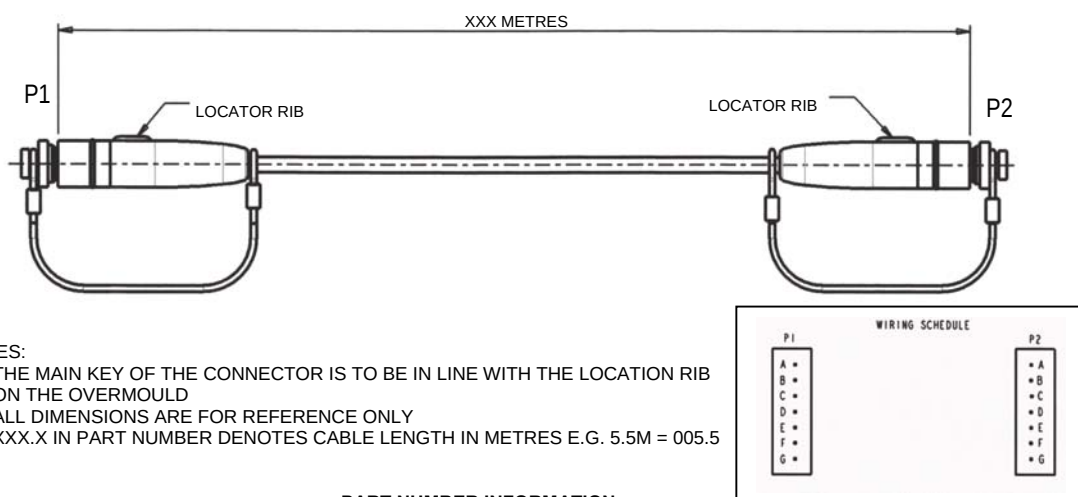
1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
3. XXX.X IN PART NUMBER DENOTES CABLE LENGTH IN METRES E.G. 5.5M = 005.5

PART NUMBER INFORMATION

CONNECTOR SERIES — 20GB SCE — 5XXX — XXX.X — CABLE LENGTH — TECHNICAL DESCRIPTION - CONSULT FACTORY

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

Up to 7 Way Double-Ended Receptacle to Receptacle Cable Assembly



NOTES:

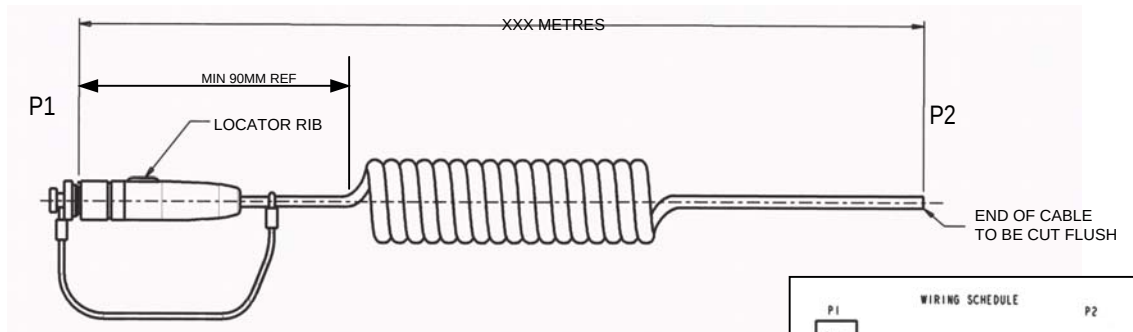
1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
3. XXX.X IN PART NUMBER DENOTES CABLE LENGTH IN METRES E.G. 5.5M = 005.5

PART NUMBER INFORMATION

CONNECTOR SERIES — 20GB SCE — 5XXX — XXX.X — CABLE LENGTH — TECHNICAL DESCRIPTION - CONSULT FACTORY

SCE - Cable Assemblies

Up to 7 Way Single-Ended Receptacle Coiled Cable Assembly

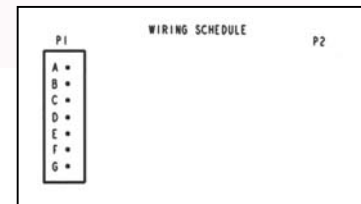


NOTES:

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.X IN PART NUMBER DENOTES CABLE LENGTH IN METRES E.G. 5.5M = 005.5

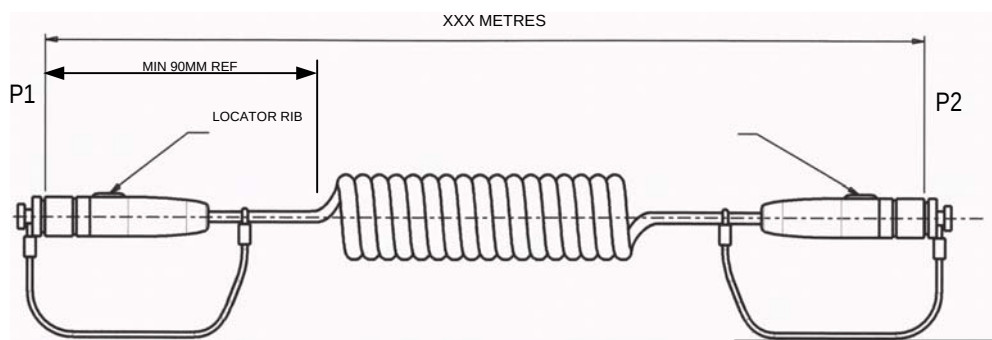
PART NUMBER INFORMATION

CONNECTOR SERIES — 20GB SCE — 5XXX — XXX.X — CABLE LENGTH
 — TECHNICAL DESCRIPTION CONSULT FACTORY



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

Up to 7 Way Double-Ended Receptacle to Receptacle Coiled Cable Assembly

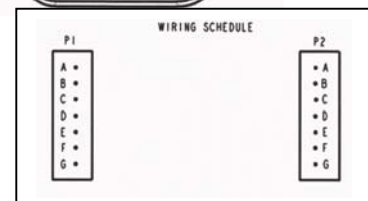


NOTES:

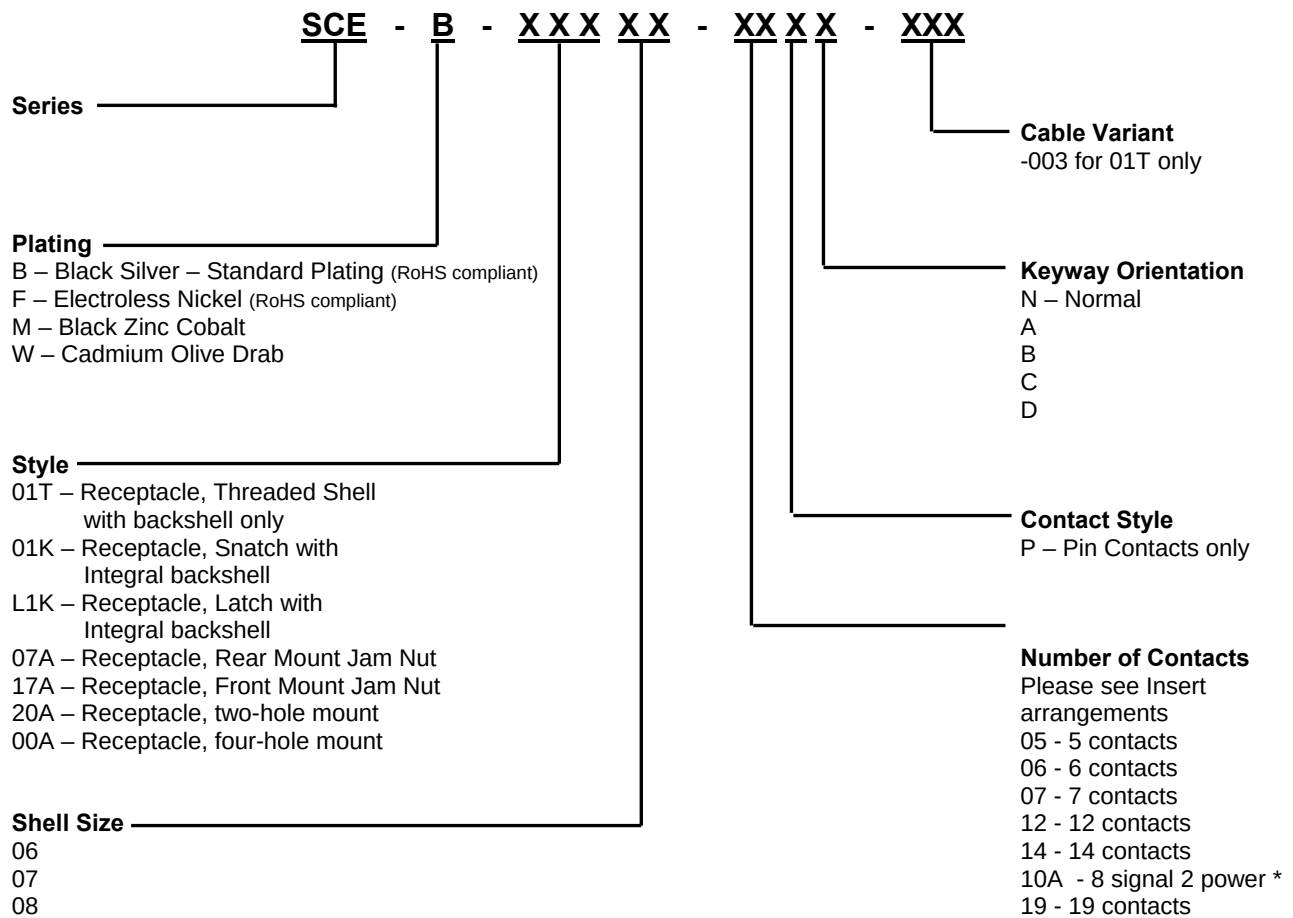
1. THE MAIN KEY OF THE CONNECTOR IS TO BE IN LINE WITH THE LOCATION RIB ON THE OVERMOULD
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY
3. XXX.X IN PART NUMBER DENOTES CABLE LENGTH IN METRES E.G. 5.5M = 005.5

PART NUMBER INFORMATION

CONNECTOR SERIES — 20GB SCE — 5XXX — XXX.X — CABLE LENGTH
 — TECHNICAL DESCRIPTION - CONSULT FACTORY



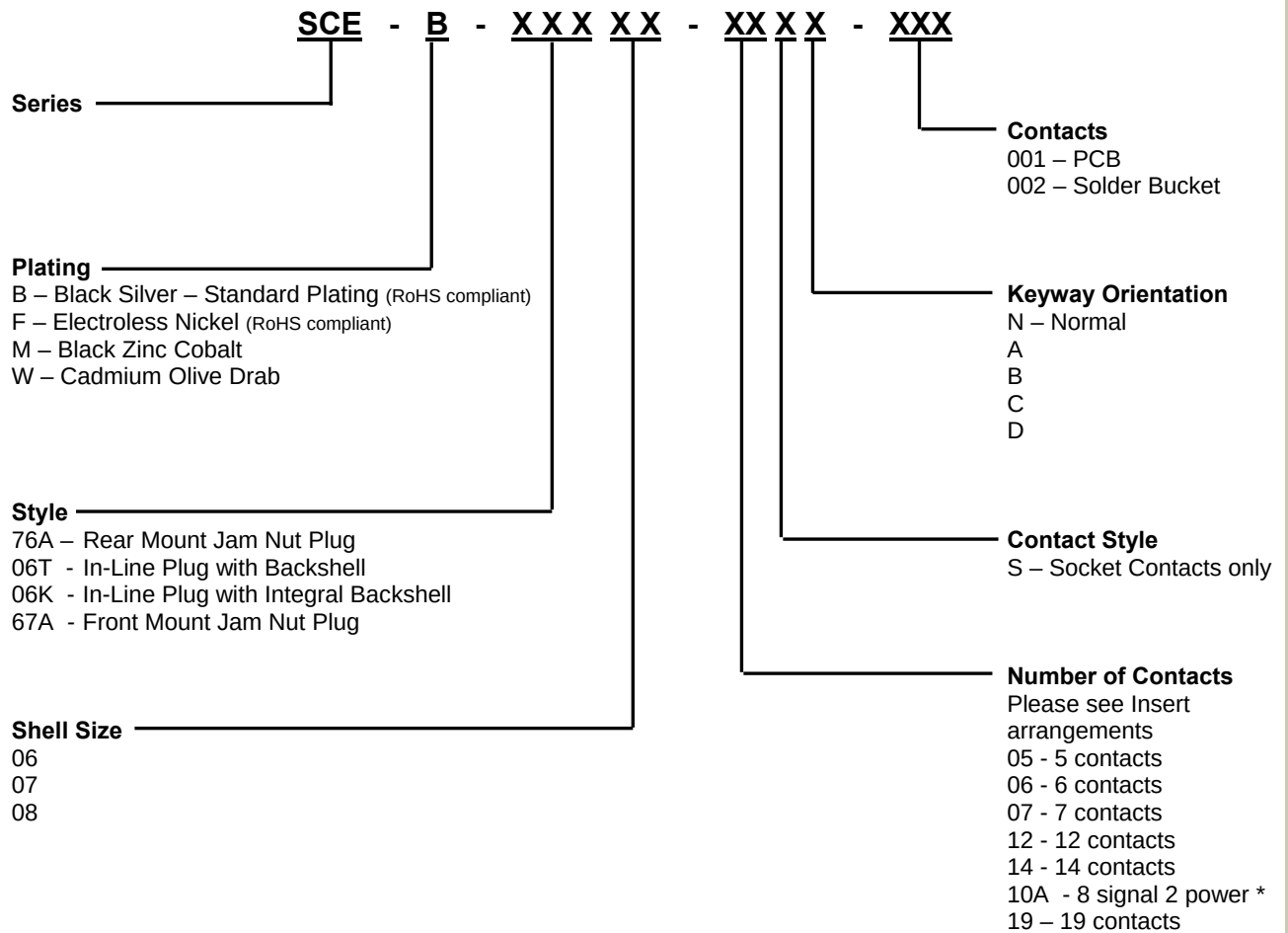
SCE Connector Part Numbers – Receptacles only



* Please consult factory.

Note: If ordering 01K and L1K receptacles, please omit the cable variant from the part number.

SCE Connector Part Numbers – Plugs only



* Please consult factory.

Note: For castellated panel nut, please add (981) at the end of plug part number

SCE Crimp Tool

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.



July 2006

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Amphenol PCD

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<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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