

DO NOT
SCALE FROM
THIS PRINT



**THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING**

ACP-16-XX-X-XX.XX-X-XX-O-X

PLUG

SIZE

KEYING FEATURE
(SEE NOTE 4) (SEE SHEET 4)
-1: ORANGE
-2: GREEN
-3: BLUE
-4: YELLOW

OVERMOLDED PLASTIC

END 2

-T: TERMINAL
-S: SOCKET
-BC: BLUNT CUT

END 1

-T: TERMINAL
-S: SOCKET (NOT AVAILABLE
WITH END 2 -T)

ASSEMBLED LENGTH

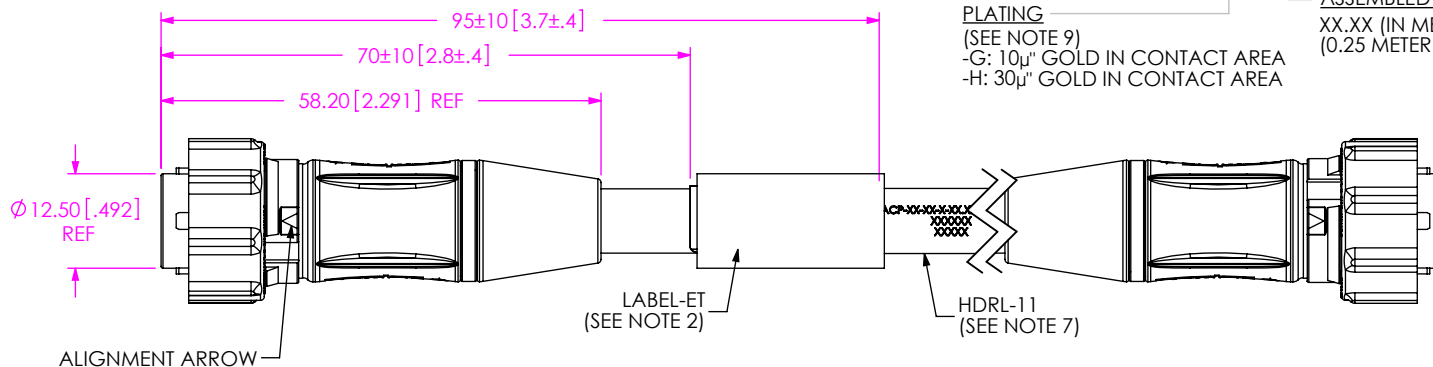
XX.XX (IN METERS)
(0.25 METER MIN TO 50.00 METER MAX)

LEAD STYLE

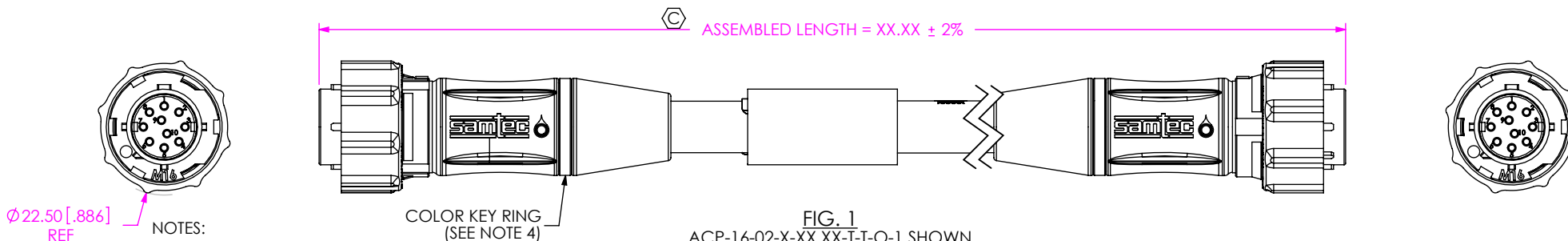
- 01: 14 POS (0.5 TERM/SKT), 28 AWG
- 02: 10 POS (1.0 TERM/SKT), 24 AWG
- 03: 4 POS PWR (1.5 TERM/SKT), 16 AWG
- * -04: 4 POS COMBO
(2 X COAX PLUG/JACK), CCA-316
(2 X 1.0 TERM/SKT), 24 AWG
- * -05: 4 POS COMBO
(3 X 1.5 TERM/SKT), 16 AWG
(1 X COAX PLUG/JACK), CCA-316
- 06: 10 POS COMBO
(2 X 1.5 TERM/SKT, 16 AWG)
(8 X 0.5 TERM/SKT, 28 AWG)
- * -07: 7 POS COMBO
(1 X COAX PLUG/JACK), CCA-316
(6 X 1.0 TERM/SKT), 24 AWG

PLATING

(SEE NOTE 9)
-G: 10μ" GOLD IN CONTACT AREA
-H: 30μ" GOLD IN CONTACT AREA



* = NOT RELEASED



NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. ASSEMBLY TO BE 100% TESTED FOR CONTINUITY, ISOLATION, & HI-POT AT 300V. (1) LABEL-ET TO BE APPLIED AFTER FINAL ELECTRICAL TEST.
3. ASSEMBLIES TO BE BULK PACKAGED.
4. KEYING FEATURE DETERMINES COLOR OF KEY RING AND DUSTCAP LANYARD IF APPLICABLE.
5. SIGNAL MAPPING IS 1 TO 1, 2 TO 2, 3 TO 3, etc..
6. REFER TO DCA-ACP-16-P-X PRINT FOR DUST CAP.
7. PLACE HDRL-11 (LABEL) ON CABLE WHERE SHOWN. LABEL TO CONTAIN:
LINE 1 - PART NUMBER "ACP-16-XX-X-XX.XX-X-XX-O-X"
LINE 2 - SHOP ORDER NUMBER "XXXXXX"
LINE 3 - DATE CODE "XXXXX"
8. NOTE DELETED.
9. PLATING CALLOUTS APPLY TO TERMINALS/SOCKETS ONLY. COAX PLUGS/JACKS HAVE -H PLATING ON INNER TERMINALS/SOCKETS & -F PLATING ON OUTER SHELLS.
10. MINIMUM BEND RADIUS FOR INDIVIDUAL LINES OF COAX CABLE IS 25.4[1.00].

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES ARE:

DECIMALS ANGLES
X.X: ±0.3 [.01] 2°
X.XX: ±0.13 [.005]
X.XXX: ±0.051 [.0020]

MATERIAL: DO NOT SCALE DRAWING

SHELL: NYLON, COLOR: BLACK
INSULATOR: PBT
PREMOLD: MD-NYL-MA-OM646-BK
OVERMOLD: MD-NYL-ZY-70G13-BK
TERMINALS: BRASS
CONTACTS: BRASS/BeCu

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SHEET SCALE: 1:1

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

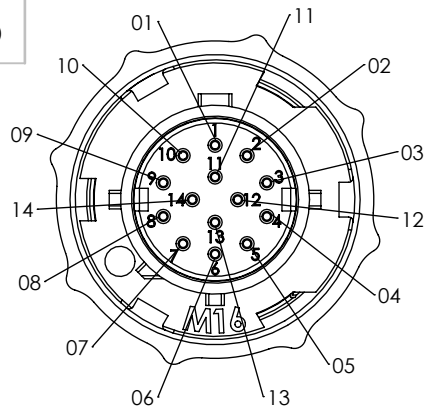
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ACCLIMATE CIRC. CABLE ASSEMBLY

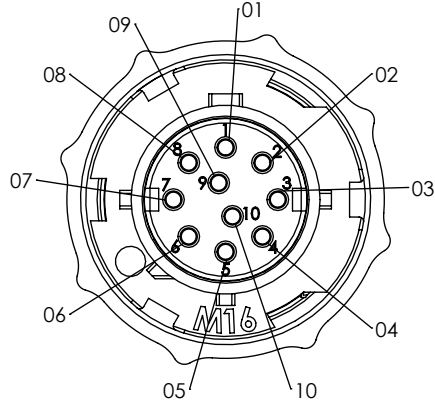
DWG. NO.

ACP-16-XX-X-XX.XX-X-XX-O-X

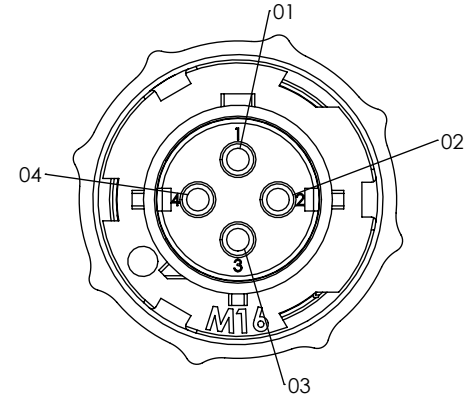
BY: D.SCHMELZ 04/30/2010 SHEET 1 OF 7



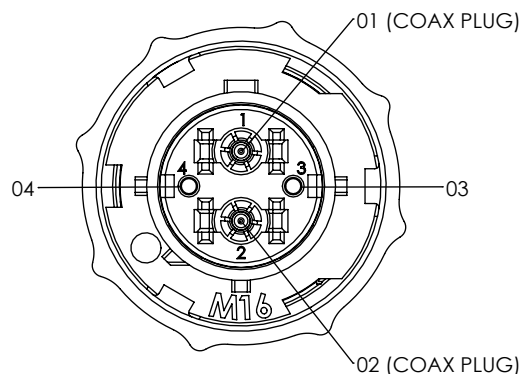
-01: 14 POS
(0.5 TERMINALS)



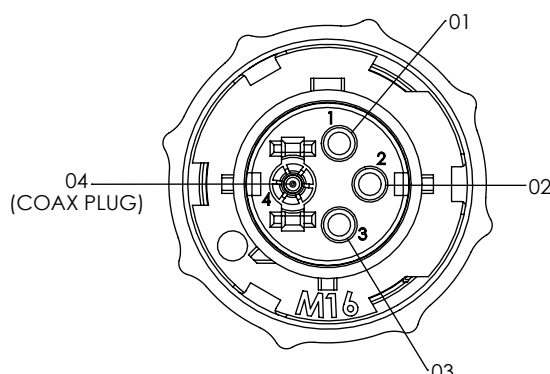
-02: 10 POS
(1.0 TERMINALS)



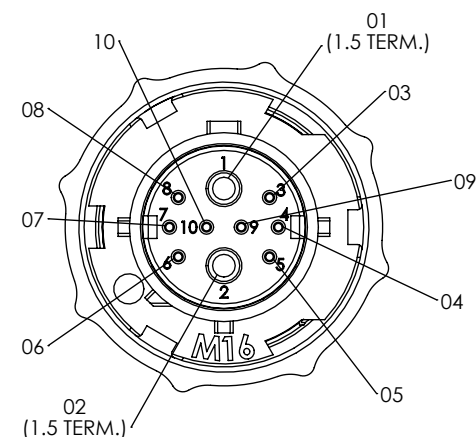
-03: 4 POS
(1.5 TERMINALS)



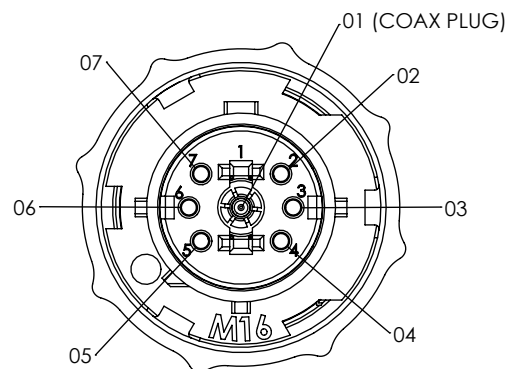
-04: 4 POS COMBO
(2 X COAX PLUGS)
(2 X Ø 1.0 TERMINALS)



-05: 4 POS COMBO
(3 X 1.5 TERMINALS)
(1 X COAX PLUG)



-06: 10 POS COMBO
(2 X 1.5 TERMINALS)
(8 X 0.5 TERMINALS)



-07: 7 POS COMBO
(1 X COAX PLUG)
(6 X Ø 1.0 TERMINALS)

-T END OPTIONS

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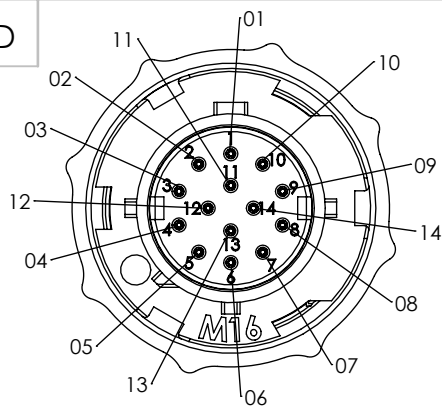
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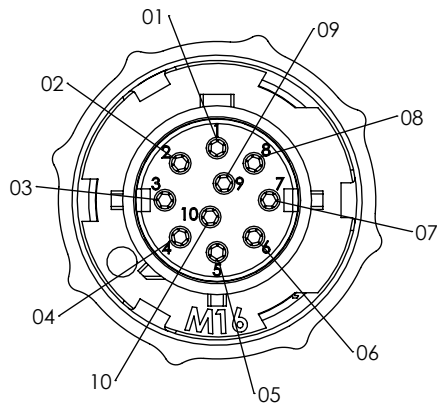
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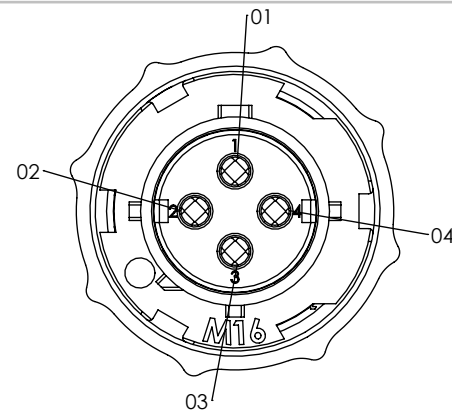
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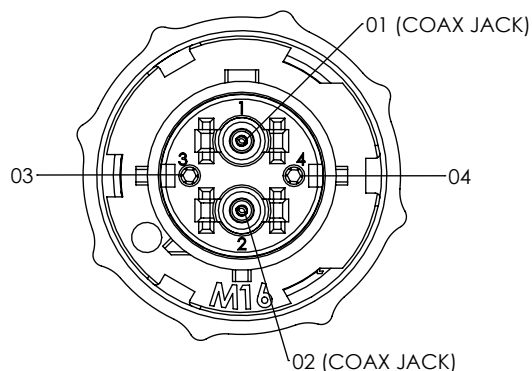
-01: 14 POS
(Ø 0.5 SOCKET)



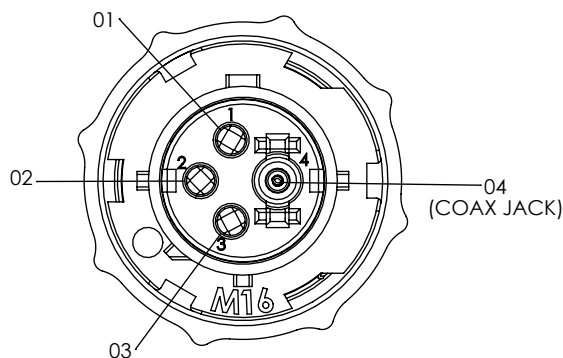
-02: 10 POS
(Ø 1.0 SOCKET)



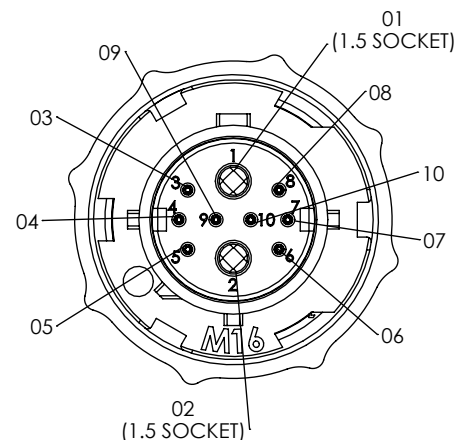
-03: 4 POS
(Ø 1.5 SOCKET)



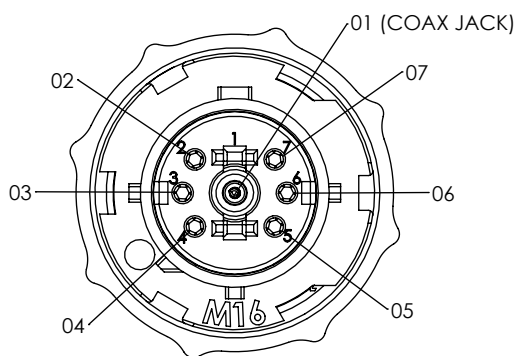
-04: 4 POS COMBO
(2 X COAX JACKS)
(2 X Ø 1.0 SOCKETS)



-05: 4 POS COMBO
(3 X Ø 1.5 SOCKETS)
(1 X COAX JACK)



-06: 10 POS COMBO
(2 X Ø 1.5 SOCKET)
(8 X Ø 0.5 SOCKET)



-07: 7 POS COMBO
(1 X COAX JACK)
(6 X Ø 1.0 SOCKETS)

-S END OPTIONS

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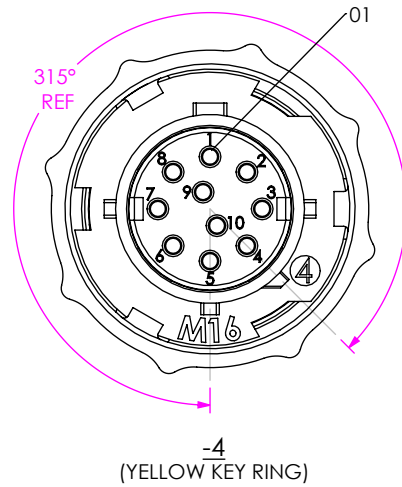
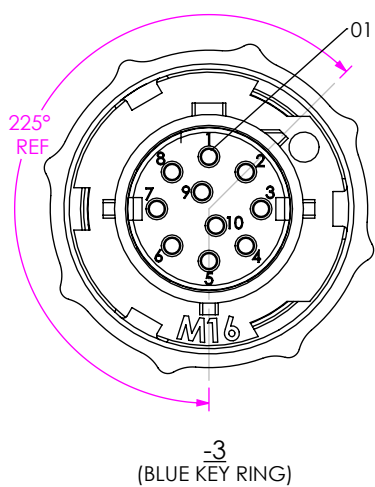
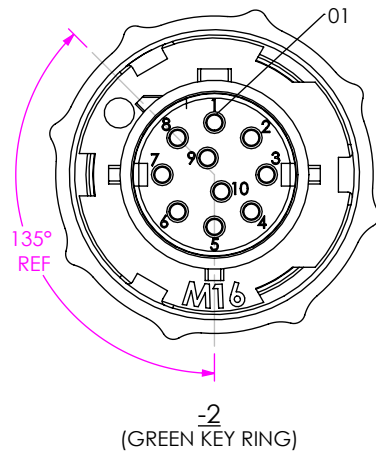
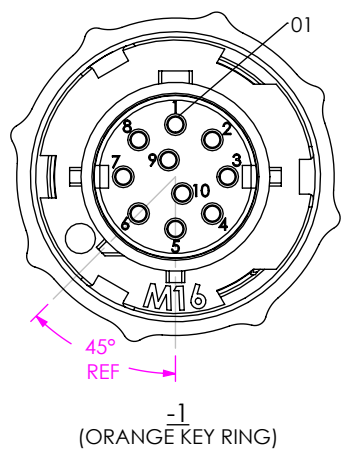
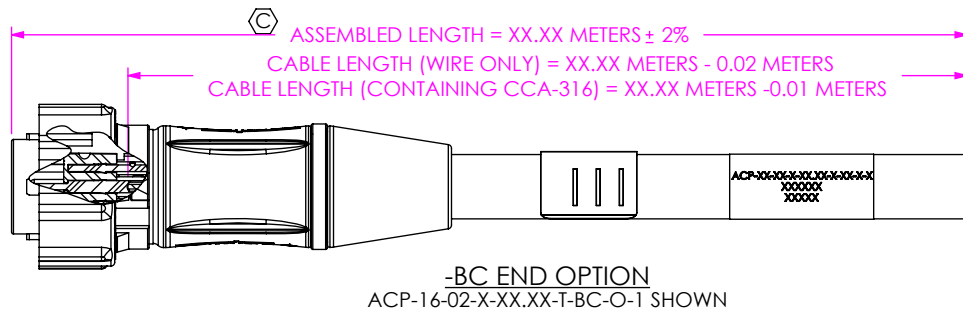
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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION: ACCLIMATE CIRC. CABLE ASSEMBLY

DWG. NO. ACP-16-XX-X-XX.XX-X-XX-O-X

BY: D.SCHMELZ 04/30/2010 SHEET 3 OF 7



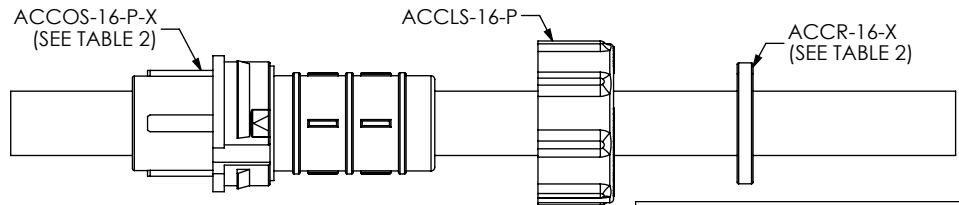
KEYING OPTIONS
 (SEE NOTE 4)

⊕ CABLE LENGTH (WIRE ONLY) = (XX.XX METERS - 0.03 METERS) ± 2%
 CABLE LENGTH (CONTAINING COAX) = (XX.XX METERS - 0.02 METERS) ± 2%
 -BC CABLE LENGTH (WIRE ONLY) = ((XX.XX METERS X 2) + 0.02 METERS) ± 2%
 -BC CABLE LENGTH (CONTAINING COAX) = ((XX.XX METERS X 2) + 0.03 METERS) ± 2%

SBWC-16-XX-O
 (SEE TABLE 1)

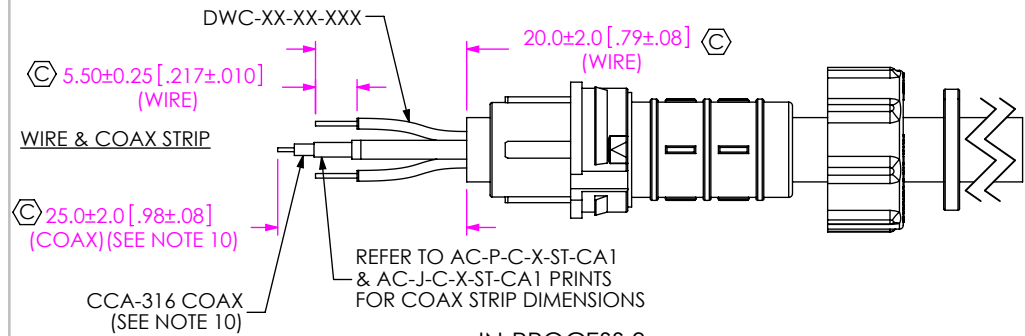
IN-PROCESS 1
 CUT SBWC CABLE TO LENGTH SHOWN

TABLE 1	
LEAD STYLES	SBWC PART #
-01	SBWC-16-01-O
-02	SBWC-16-02-O
-03	SBWC-16-03-O
-04	SBWC-16-04-O
-05	SBWC-16-05-O
-06	SBWC-16-06-O
-07	SBWC-16-07-O



IN-PROCESS 2
 FEED SBWC-16-XX-O BUNDLED CABLE THROUGH
 ACCR-16-X, ACCLS-16-P, & ACCOS-16-P-X

TABLE 2		
KEYING FEATURE	SHELL PART #	ACCR-16-X
-1	ACCOS-16-P-1	ACCR-16-1
-2	ACCOS-16-P-2	ACCR-16-2
-3	ACCOS-16-P-3	ACCR-16-3
-4	ACCOS-16-P-4	ACCR-16-4



IN-PROCESS 3
 STRIP OUTER JACKET & INNER WIRE/COAX
 TO DIMENSIONS SHOWN AND TIN INNER CONDUCTORS

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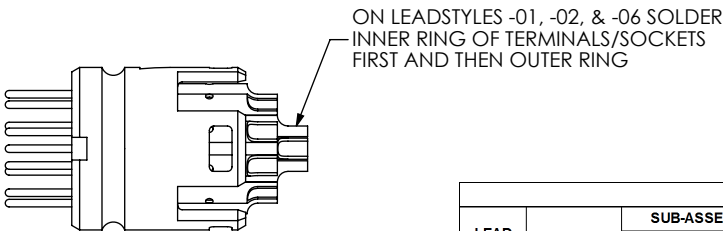
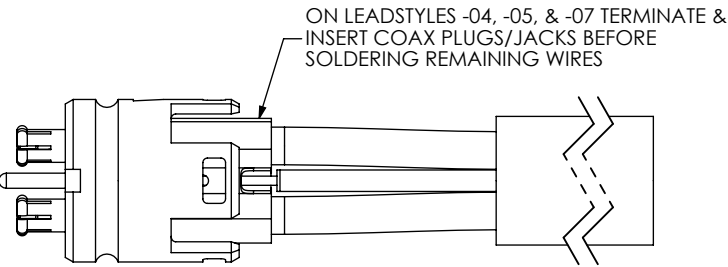
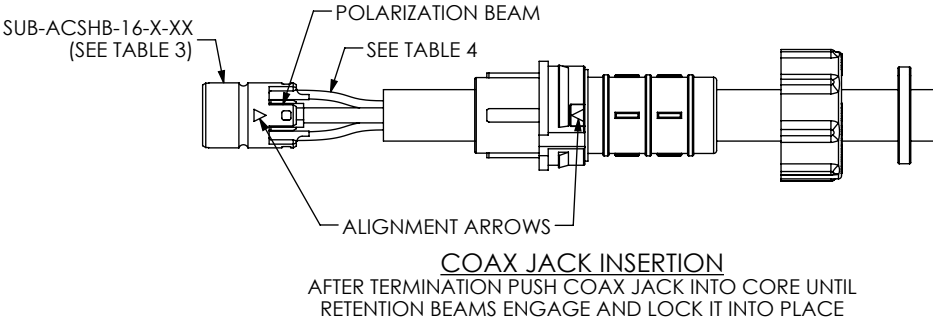
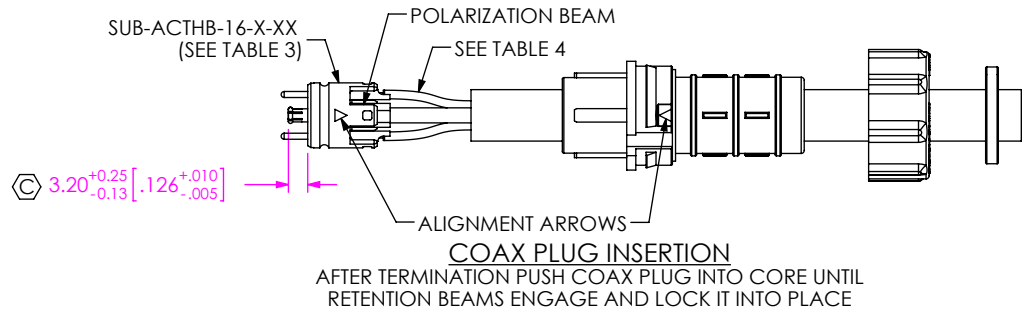
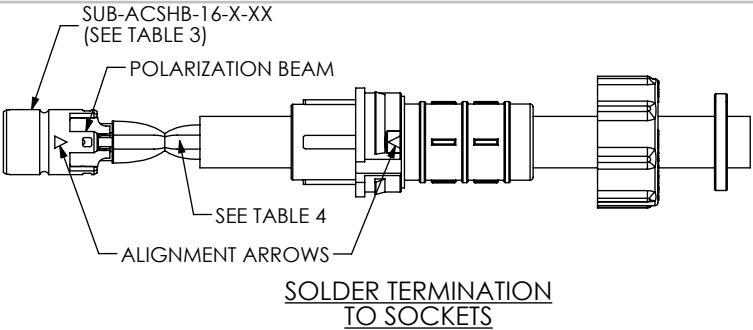
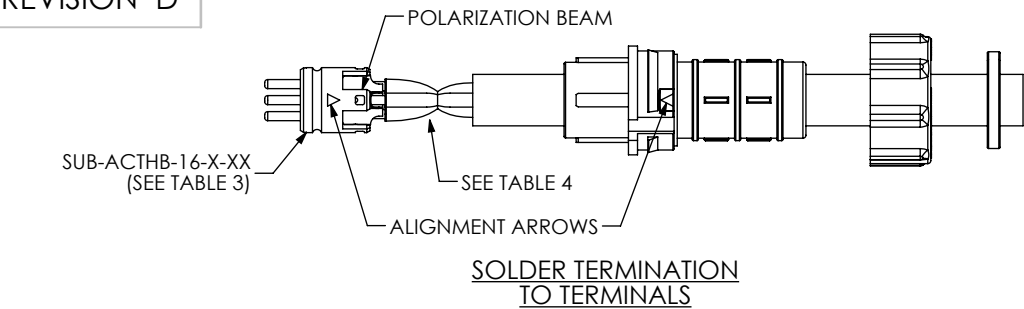
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DWG. NO.
 ACP-16-XX-X-XX.XX-X-XX-O-X

BY: D.SCHMELZ 04/30/2010 SHEET 4 OF 7



IN-PROCESS 4
TERMINATE WIRES/COAX TO TERMINALS/SOCKETS
(SEE AC-J-C-X-ST-CA1 & AC-P-C-X-ST-CA1
PRINTS FOR COAX TERMINATION)
(SEE NOTE 5)

TABLE 4										
WIRE COLOR										
POSITION	LEAD STYLE									
	-01	-02	-03	-04	-05	-06	-07			
01	BROWN	BROWN	BROWN	COAX	BROWN	BROWN	COAX			
02	RED	RED	RED	COAX	RED	RED	RED			
03	ORANGE	ORANGE	ORANGE	ORANGE	ORANGE	ORANGE	ORANGE			
04	YELLOW	YELLOW	YELLOW	YELLOW	COAX	YELLOW	YELLOW			
05	GREEN	GREEN	NA	NA	NA	GREEN	GREEN			
06	DARK BLUE	DARK BLUE				DARK BLUE	DARK BLUE			
07	VIOLET	VIOLET				VIOLET	VIOLET			
08	GRAY	GRAY				GRAY	NA			
09	WHITE	WHITE				WHITE				
10	BLACK	BLACK				BLACK				
11	GREEN/BLACK	NA				NA				
12	TAN									
13	DARK BLUE/YELLOW									
14	PINK									

TABLE 3					
LEAD STYLES	END1/END 2	SUB-ASSEMBLY/HOLDER BODY PART #		COAX PLUG/JACK PART #	
		PLATING			
		-G	-H	AC-X-C-H-ST-CA1	QTY
-01	-T	SUB-ACTHB-16-G-01	SUB-ACTHB-16-H-01	NA	
-02	-T	SUB-ACTHB-16-G-02	SUB-ACTHB-16-H-02	NA	
-03	-T	SUB-ACTHB-16-G-03	SUB-ACTHB-16-H-03	NA	
-04	-T	SUB-ACTHB-16-G-04	SUB-ACTHB-16-H-04	AC-P-C-H-ST-CA1	2
-05	-T	SUB-ACTHB-16-G-05	SUB-ACTHB-16-H-05	AC-P-C-H-ST-CA1	1
-06	-T	SUB-ACTHB-16-G-06	SUB-ACTHB-16-H-06	NA	
-07	-T	SUB-ACTHB-16-G-07	SUB-ACTHB-16-H-07	AC-P-C-H-ST-CA1	1
-01	-S	SUB-ACSHB-16-G-01	SUB-ACSHB-16-H-01	NA	
-02	-S	SUB-ACSHB-16-G-02	SUB-ACSHB-16-H-02	NA	
-03	-S	SUB-ACSHB-16-G-03	SUB-ACSHB-16-H-03	NA	
-04	-S	SUB-ACSHB-16-G-04	SUB-ACSHB-16-H-04	AC-J-C-H-ST-CA1	2
-05	-S	SUB-ACSHB-16-G-05	SUB-ACSHB-16-H-05	AC-J-C-H-ST-CA1	1
-06	-S	SUB-ACSHB-16-G-06	SUB-ACSHB-16-H-06	NA	
-07	-S	SUB-ACSHB-16-G-07	SUB-ACSHB-16-H-07	AC-J-C-H-ST-CA1	1

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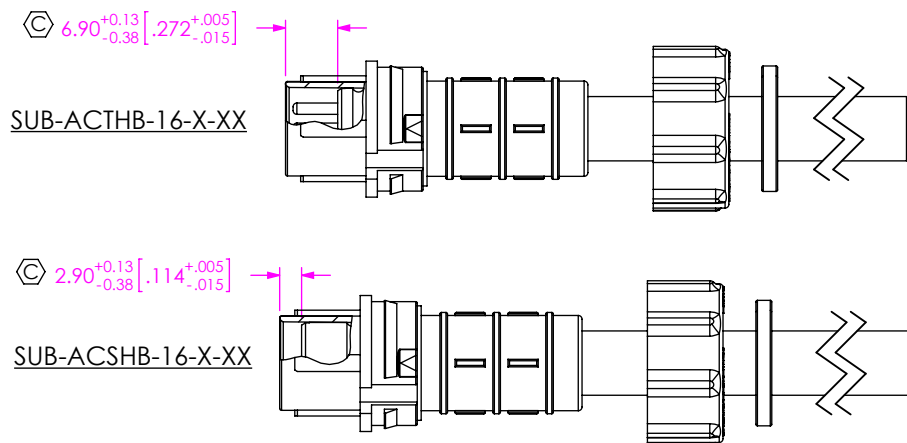
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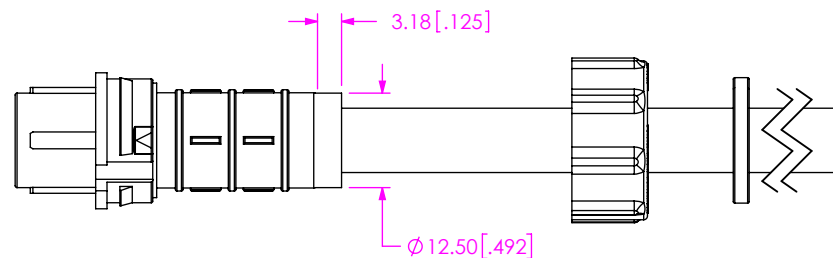
BY: D.SCHMELZ 04/30/2010 SHEET 5 OF 7

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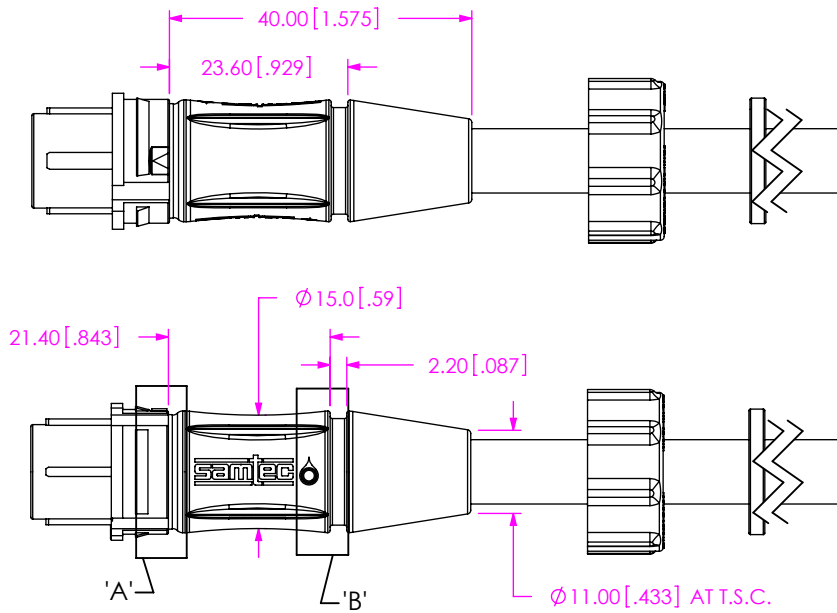
IN-PROCESS 5

WHILE MAKING SURE ALIGNMENT ARROWS LINE UP TO AID POLARIZATION BEAM ENGAGEMENT, INSERT SUB-ACXHB-16-X-XX SUB-ASSEMBLY INTO ACCOS-16-P-X UNTIL SNAP LOCKS ENGAGE.



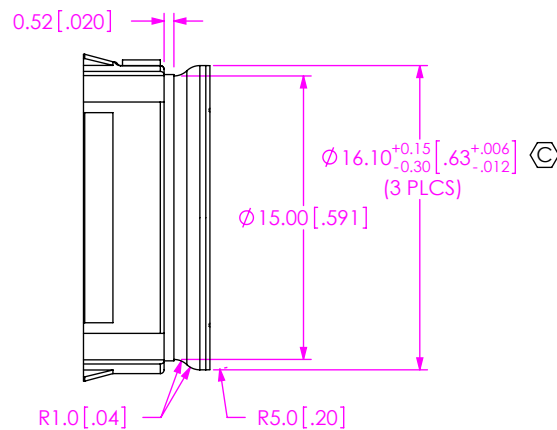
IN-PROCESS 6

APPLY PRE-MOLD



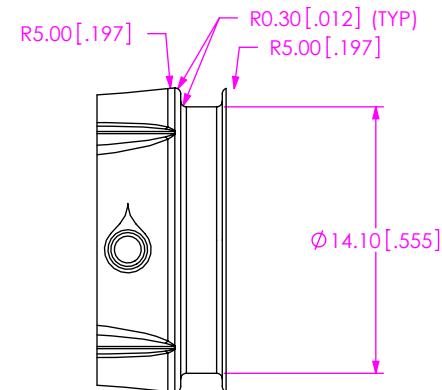
IN-PROCESS 7

APPLY OVERMOLD GRIP



DETAIL 'A'

SCALE 2.5 : 1



DETAIL 'B'

SCALE 2.5 : 1

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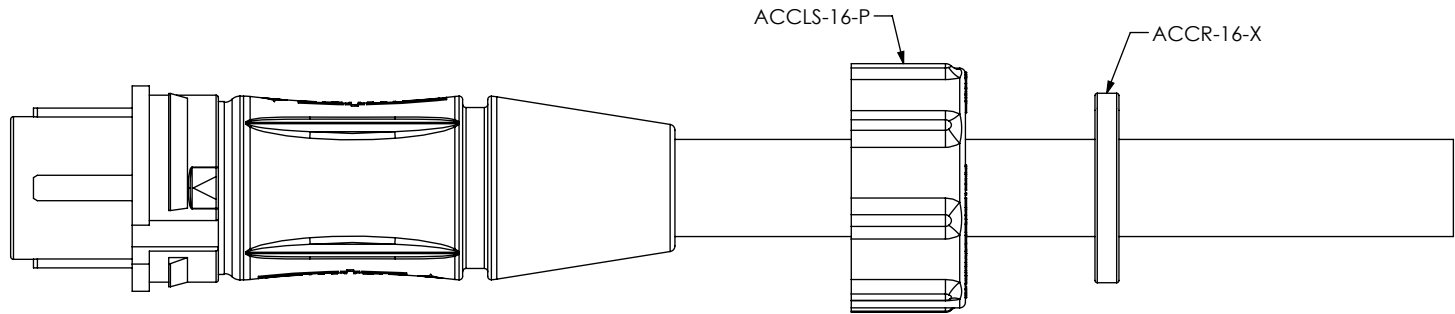
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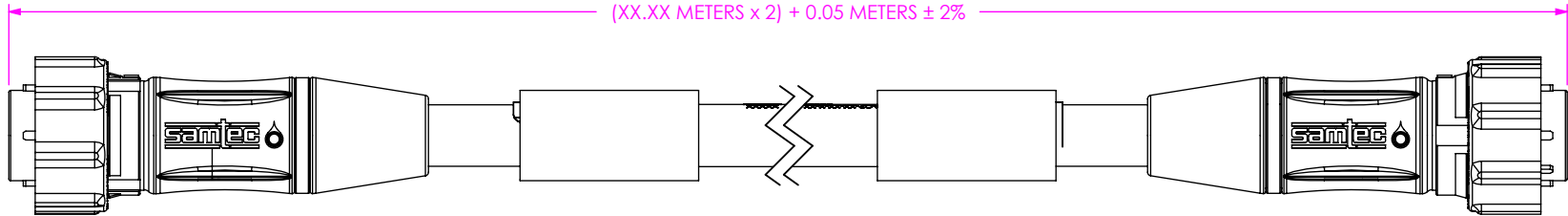
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ACP-16-XX-X-XX.XX-X-XX-O-X

BY: D.SCHMELZ 04/30/2010 SHEET 6 OF 7



IN-PROCESS 8
PUSH ACCLS-16-P OVER OVERMOLD
AND ACCOS-16-P-X UNTIL IT SNAPS.
STRETCH ACCR-16-X OVER OVERMOLD
UNTIL IT SEATS IN GROOVE.



IN-PROCESS 9
(-BC END OPTION ONLY)
BUILD DOUBLE-ENDED INITIALLY FOR E-TEST,
APPLY LABEL-ET & HDRL-11 TO BOTH ENDS,
AND CUT CABLE IN HALF

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BY: D.SCHMELZ 04/30/2010 SHEET 7 OF 7	