

DO NOT
SCALE FROM
THIS PRINT

TABLE 1			
No. OF POS	"A"	"B"	"C"
-02	17.38 [.684]	16.55 [.652]	11.95 [.470]
-03	19.38 [.763]	18.55 [.730]	13.95 [.549]
-04	21.38 [.842]	20.55 [.809]	15.95 [.628]
-05	23.38 [.920]	22.55 [.888]	17.95 [.707]
-06	25.38 [.999]	24.55 [.967]	19.95 [.785]
-07	27.38 [1.078]	26.55 [1.045]	21.95 [.864]
-08	29.38 [1.157]	28.55 [1.124]	23.95 [.943]
-09	31.38 [1.235]	30.55 [1.203]	25.95 [1.022]
-10	33.38 [1.314]	32.55 [1.281]	27.95 [1.100]

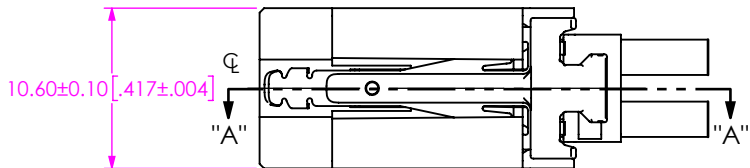
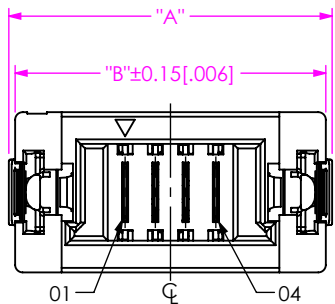
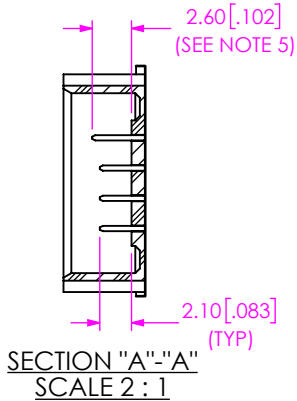


FIG 1
UMPEX-04-X-XX-XX.X SHOWN

UMPEX-XX-X-XXX-XX.X-X-XX

FEP CABLE OPTION

*-T: FEP INSULATION
(LEAVE BLANK FOR STANDARD
PVC INSULATION)

No OF POSITIONS

-02, -03, -04, -05,
-06, -07, -08, -09,
-10

PLATING SPECIFICATION

-T: BRIGHT ACID TIN (BAT)
-L: 10µ" SELECTIVE GOLD IN CONTACT
AREA, BRIGHT ACID TIN (BAT) ON THE TAIL.
-S: 30µ" SELECTIVE GOLD IN CONTACT
AREA, BRIGHT ACID TIN (BAT) ON THE TAIL.

WIRE GAUGE

-16: 16 AWG
(UMPE USES 16 AWG 300 VOLT PVC)
*(UMPET USES 16 AWG 600 VOLT FEP)
-18: 18 AWG
(UMPE USES 18 AWG 300 VOLT PVC)
*(UMPET USES 18 AWG 300 VOLT FEP)

COLOR CODE

C: COLOR CODE WIRE
(SEE COLOR SEQUENCE TABLE, SHEET 4)
(LEAVE BLANK FOR STANDARD WIRE)
NOT AVAILABLE WITH UMPET

ASSEMBLY LENGTH

SPECIFY IN INCHES
SINGLE ENDED: 03.0 INCH MINIMUM
DOUBLE ENDED, 2-4 POSITIONS: 04.0 INCH MINIMUM
DOUBLE ENDED, 5-10 POSITIONS: 05.0 INCH MINIMUM

SECOND END OPTION

(LEAVE BLANK FOR SINGLE ENDED ASSEMBLY)
-T: TERMINAL
-S: SOCKET

PINOUT

(LEAVE BLANK FOR SINGLE ENDED ASSEMBLY)
-M1: METAL LATCH 1 TO 1
-M2: METAL LATCH 1 TO N
-P1: PLASTIC LATCH 1 TO 1
-P2: PLASTIC LATCH 1 TO N
(-PX OPTION ONLY AVAILABLE WITH -S END OPTION)

(* = NOT TOOLED)

NOTES:

1. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED FOR SHORTS AND OPENS.
2. ALL FINISHED GOODS ARE TO BE ELECTRICAL TESTED INCLUDING HI-POT TEST @ 1000 VOLTS DC. AFTER FINAL ELECTRICAL TEST, LABEL EACH ASSEMBLY WITH (1) ET STAMP ON THE BODY.
3. FOR LENGTHS LESS THAN 12 IN, TOLERANCE SHALL BE ±.125. FOR OTHER LENGTHS, TOLERANCES SHALL BE ±2%.
4. PARTS TO BE INDIVIDUALLY PACKAGED IN A ASBBLTXXXXX BUBBLE BAG.
5. HOT SWAP PIN 1 AS STANDARD.
6. DWCT-XX-01-TC IS TO BE USED EXCLUSIVE WITH DOUBLE ENDED ASSEMBLIES, ALL SINGLE ENDED ASSEMBLIES USE SILVER PLATED DWCT-XX-01.

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1 INSULATOR: LCP CONTACT: COPPER ALLOY HOLDER: NYLON CAP: POLYPROPYLENE		DESCRIPTION: 2MM ULTRA MICRO POWER CABLE DWG. NO. UMPEX-XX-X-XXX-XX.X-X-XX	
BY: JACK Z		09/25/2021	
c:\enterprise\vault\DWG\MISC\MKTG\UMPEX-XX-X-XXX-XX.X-X-MKT.SLDDRW		SHEET 1 OF 6	

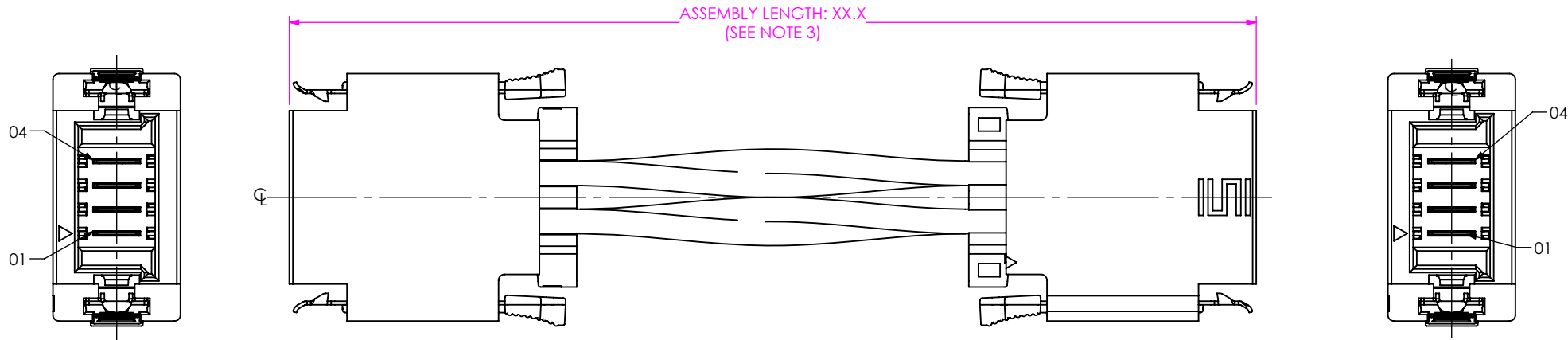


FIG 2
UMPCX-04-X-XX-XX.X-T-M1 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

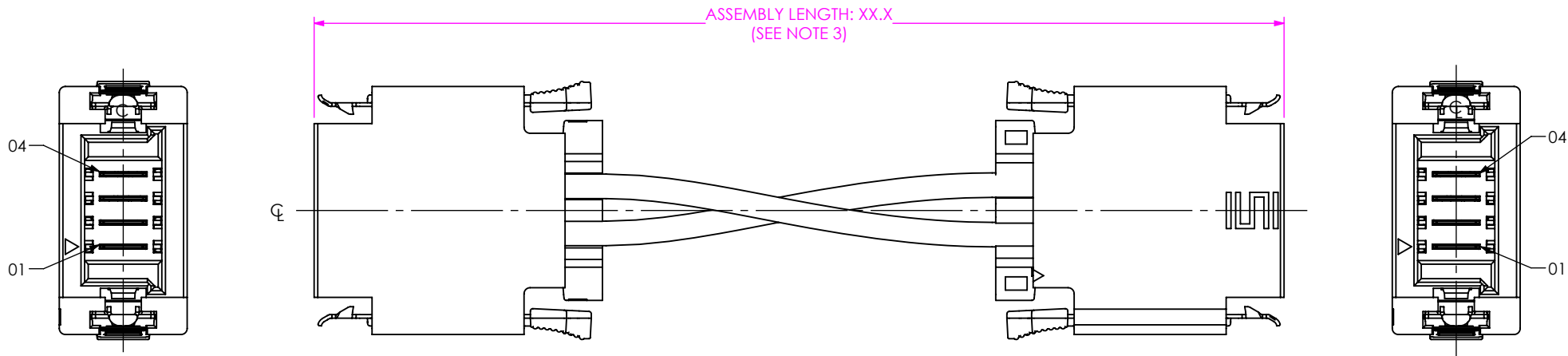


FIG 3
UMPEX-04-X-XX-XX.X-T-M2 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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SHEET SCALE: 1:1

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
2MM ULTRA MICRO POWER CABLE

DWG. NO.
UMPEX-XX-X-XXX-XX.X-X-XX

BY: JACK Z 09/25/2021 SHEET 2 OF 6

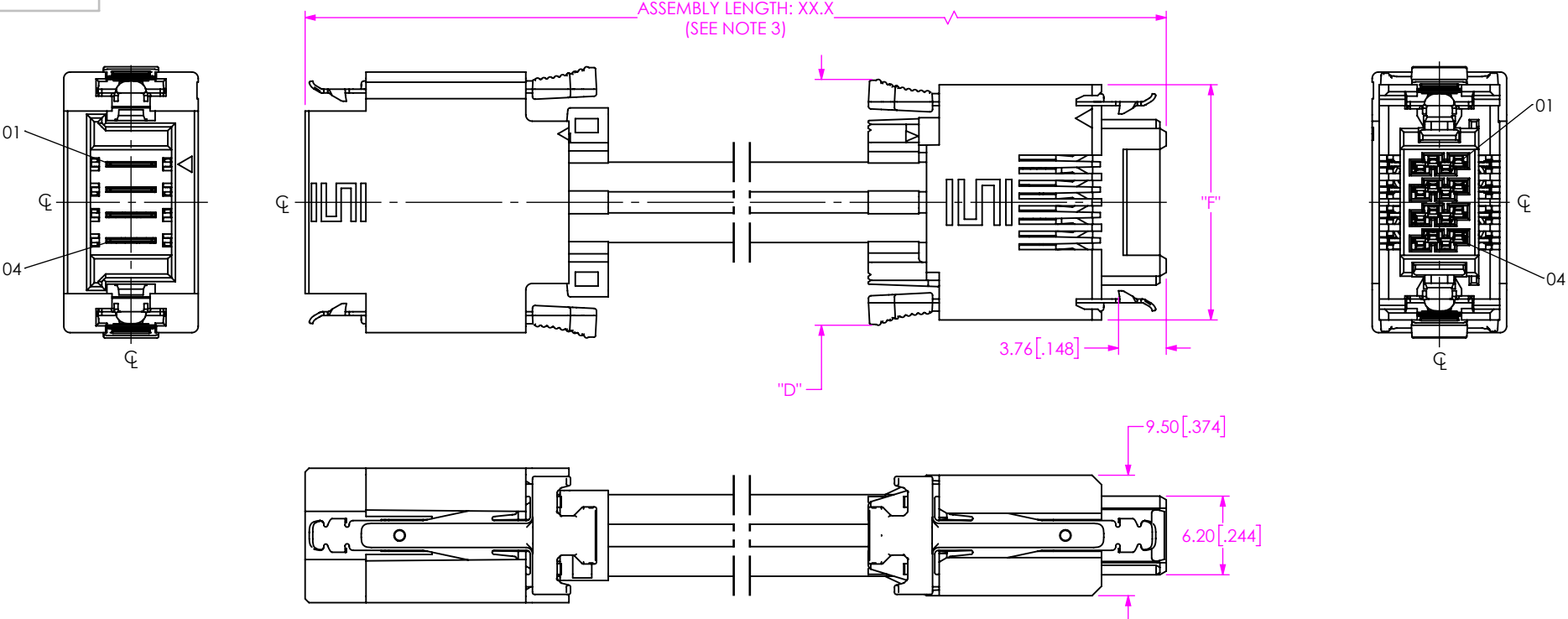


FIG 4
UMPEX-04-X-XX-XX.X-S-M1 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 2			
No. OF POS	"D"	"F"	"G"
-02	15.38 [.606]	14.55 [.573]	12.85 [.506]
-03	17.38 [.684]	16.55 [.652]	14.85 [.585]
-04	19.38 [.763]	18.55 [.730]	16.85 [.663]
-05	21.38 [.842]	20.55 [.809]	18.85 [.742]
-06	23.38 [.920]	22.55 [.888]	20.85 [.821]
-07	25.38 [.999]	24.55 [.967]	22.85 [.900]
-08	27.38 [1.078]	26.55 [1.045]	24.85 [.978]
-09	29.38 [1.157]	28.55 [1.124]	26.85 [1.057]
-10	31.38 [1.235]	30.55 [1.203]	28.85 [1.136]

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DESCRIPTION:
2MM ULTRA MICRO POWER CABLE

DWG. NO.
UMPEX-XX-X-XXX-XX.X-X-XX

BY: JACK Z 09/25/2021 SHEET 3 OF 6

SHEET SCALE: 1:1

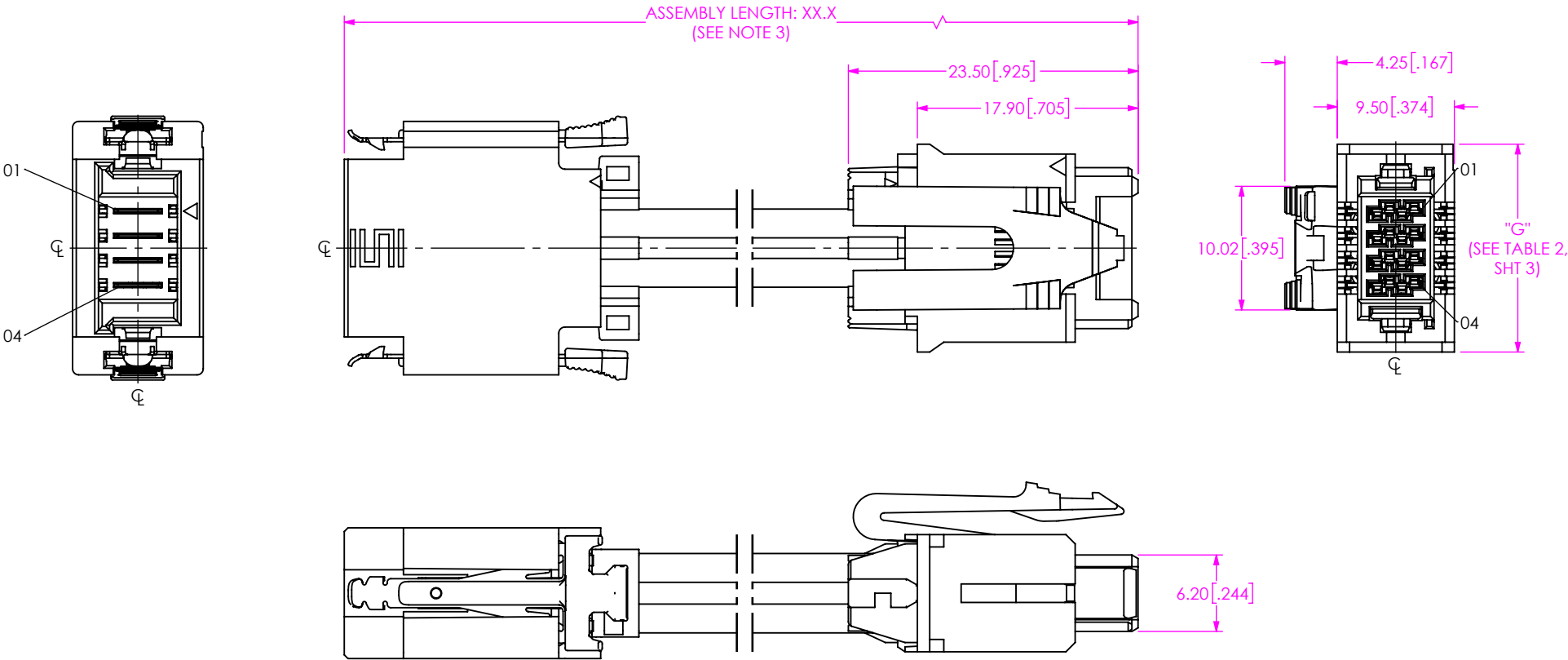


FIG 5
UMPEX-04-X-XX-XX.X-S-P1 SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

UMPE COLOR CODED WIRE SEQUENCE										
PIN#	COLOR									
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK
1	2	3	4	5	6	7	8	9	10	

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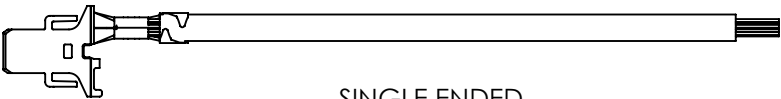
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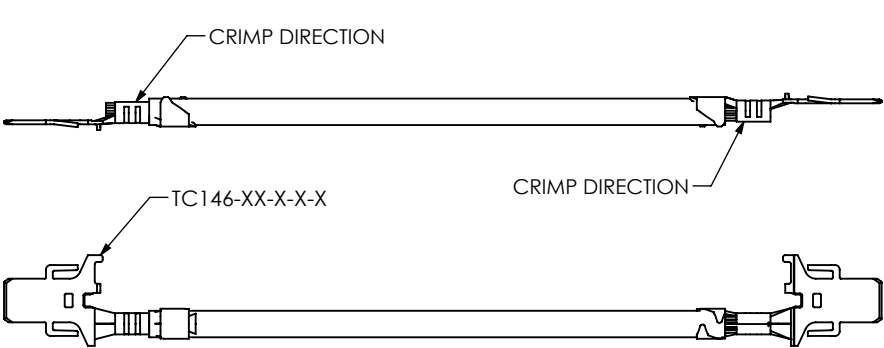
DESCRIPTION:
2MM ULTRA MICRO POWER CABLE

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UMPEX-XX-X-XXX-XX.X-X-XX

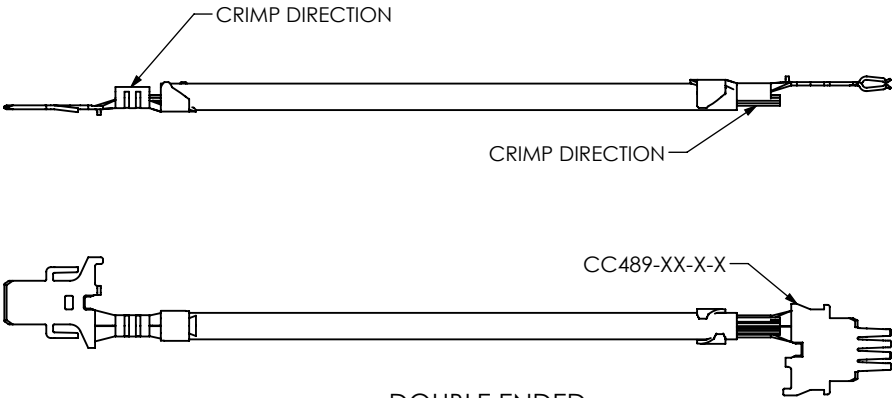
BY: JACK Z 09/25/2021 SHEET 4 OF 6



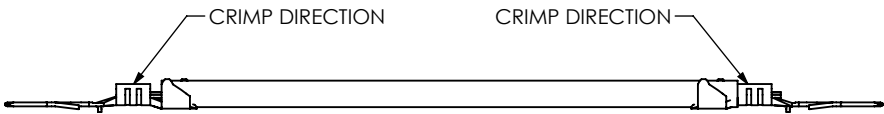
SINGLE ENDED



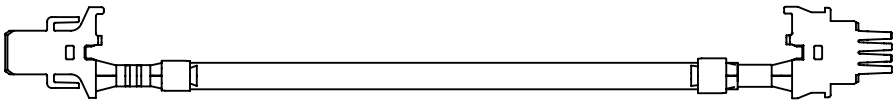
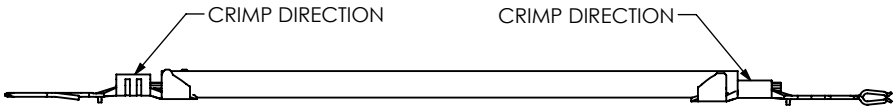
DOUBLE ENDED
-X1 PINOUT (PIN 1 TO PIN 1)
(FOR -T SECOND END OPTION)



DOUBLE ENDED
-X1 PINOUT (PIN 1 TO PIN 1)
(FOR -S SECOND END OPTION)



DOUBLE ENDED
-X2 PINOUT (PIN 1 TO PIN 1)
(FOR -T SECOND END OPTION)



DOUBLE ENDED
-X2 PINOUT (PIN 1 TO PIN 1)
(FOR -S SECOND END OPTION)

FIG 6
WIRE PINOUT VIEWS

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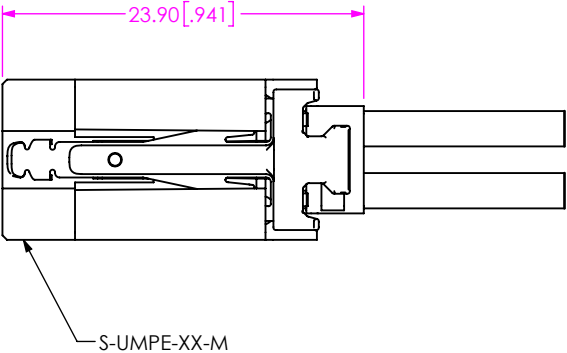
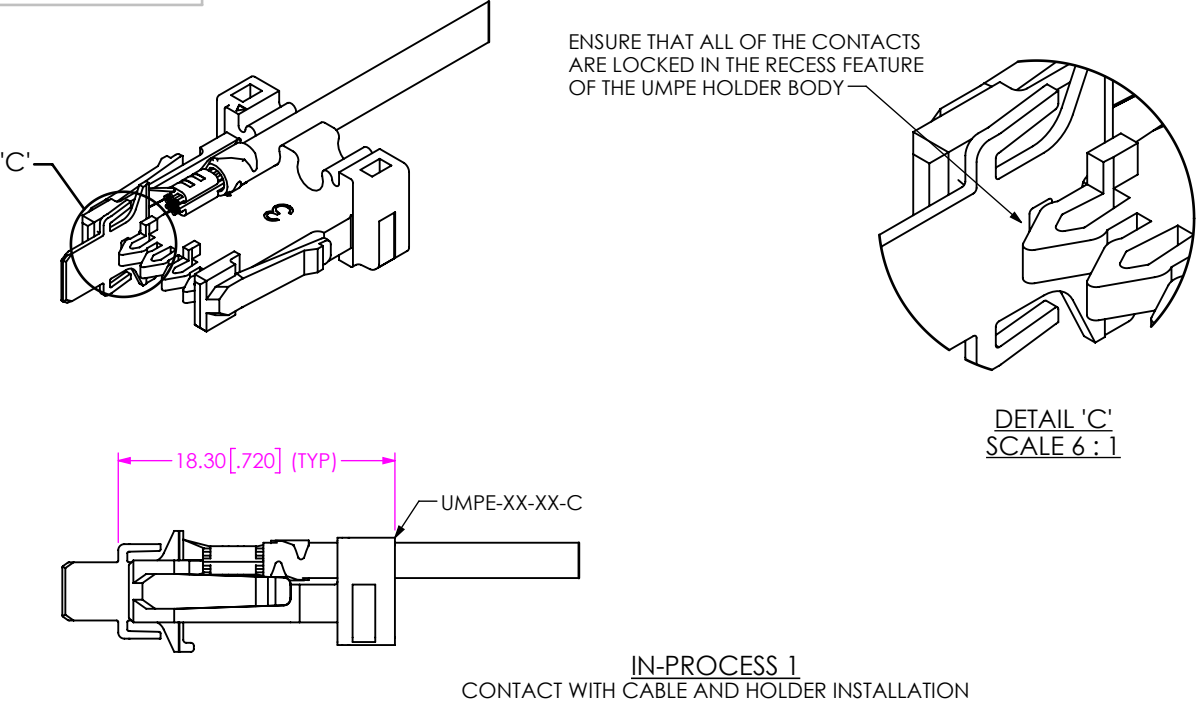
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BY: JACK Z 09/25/2021 SHEET 5 OF 6



IN-PROCESS 2
BODY INSTALLATION

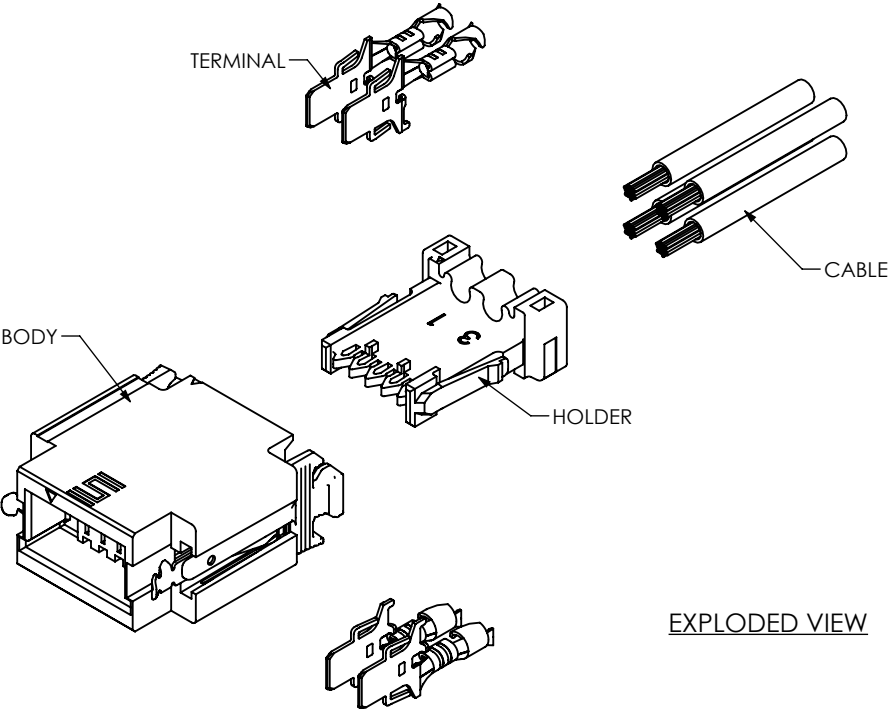


TABLE 3			
END OPTION		BODY	
-T		S-UMPE-XX-M	
-S	-MX	SUB-UMPC-XX-ML	
	-PX	UMPC-XX-P	

TABLE 4							
SERIES	WIRE GAUGE	VOLTAGE	HOLDER		TERMINAL	CONTACT	CABLE
UMPE	16 AWG	300V	UMPE-XX-01-C	UMPC-XX-01	T-1M146-01-X-X	C-489-01-X	DWC-16-XX-300
	18 AWG		UMPE-XX-02-C	UMPC-XX-02			DWC-18-XX-300
UMPET	16 AWG	600V	UMPE-XX-03-C	UMPC-XX-03	T-1M146-02-X-X	C-489-02-X	TBD
	18 AWG	300V	UMPE-XX-04-C	UMPC-XX-04			
					T-1M146-03-X-X	C-489-03-X	SEE NOTE 6

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BY: JACK Z 09/25/2021 SHEET 6 OF 6