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NOTES:

1. WINCHESTER ELECTRONICS NOMENCLATURE ARE ENCLOSED IN BRACKETS []
WHERE NECESSARY TO ENSURE CATALOG NUMBER DOES NOT EXCEED 15 DIGITS

ORDERING INFORMATION

[C] [UMI] - [] [] - [] - [R] - [BK] - [] - [XX]
[XXX]

C=OPTIONAL CLOSED ENTRY SOCKET CONTACT
NO DESIGNATOR= STANDARD OPEN ENTRY CONTACTS

UMI SERIES DESIGNATOR

MICRO-MINATURE RACK AND PANEL, 22 AWG CONTACTS, #030

NUMBER OF CONTACTS

SPECIFY: 4, 5, 7, 9, 11, 14, 20, 26, 29, 34, 44, 50, OR MS50

CONTACT TYPE DESIGNATOR

M= MALE PIN, SOLDER CUP, (PHOS. BRONZE)- STD- (M28748)
F= FEMALE SOCKET, SOLDER CUP, (PHOS. BRONZE)- STD.
[UMI]-F= FEMALE SOCKET, SOLDER CUP, CLOSED ENTRY
PHOS. BRONZE- (M28748)
BF= FEMALE SOCKET, SOLDER CUP, BERYLLIUM COPPER- OPTIONAL

OPTIONAL CONTACT TERMINATION DESIGNATORS

D07 [D1] = #023 DIP SOLDER TAIL X .070 IN. LONG
D09 [D2] = #023 DIP SOLDER TAIL X .093 IN. LONG
D14 [D3] = #023 DIP SOLDER TAIL X .140 IN. LONG
D18 [D4] = #023 DIP SOLDER TAIL X .180 IN. LONG
DD13 [D5] = #030 DIP SOLDER TAIL X .125 IN. LONG
DD16 [D6] = #030 DIP SOLDER TAIL X .156 IN. LONG
DD31 [D7] = #030 DIP SOLDER TAIL X .310 IN. LONG
WWS4 [W1] = #025 IN. 50 NON ROTATING WIRE WRAP
TAIL X .540 IN. LONG

HARDWARE VARIATIONS

CONNECTOR WITHOUT HARDWARE
W= NO HARDWARE (i.e. UMI-14M-W)

POLARIZED GUIDES:

BLANK [G]= STANDARD POLARIZED GUIDES (BRASS, GOLD FLASH FINISH) WILL BE SUPPLIED
UNLESS OTHERWISE SPECIFIED
SS = STAINLESS STEEL POLARIZED GUIDES .150 MTG. STUD EXTENSION
SS25 [SS2]= STAINLESS STEEL POLARIZED GUIDES .250 MTG. STUD EXTENSION- (PER MIL-28748)

POLARIZED GUIDES WITH HOOD & CABLE CLAMP (UNAVAILABLE FOR SIZE 4 ONLY)

HR= TOP OPENING HOOD WITH STANDARD POL. GUIDES (BRASS, GOLD FLASH)
HS= SIDE OPENING HOOD WITH STANDARD POL. GUIDES (BRASS, GOLD FLASH)
SSHR [SHR]= TOP OPENING HOOD WITH STAINLESS STEEL GUIDES .150 MTG. STUD EXTENSION
SSHS [SHS]= SIDE OPENING HOOD WITH STAINLESS STEEL GUIDES .150 MTG. STUD EXTENSION
WHR= TOP OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WHR)
WHS= SIDE OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WHS)

LONG TURNABLE SCREWLOCKS WITH HOOD & CABLE CLAMP (HARDWARE USED WITH HOODS ONLY)

KHR [KT]= TOP OPENING HOOD WITH 2-56 THD STAINLESS STEEL SCREWLOCKS- PER MIL-28748
KHS [KS]= SIDE OPENING HOOD WITH 2-56 THD STAINLESS STEEL SCREWLOCKS- PER MIL-28748
WKHR [WT]= TOP OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WKHR [UMI-14-WT])
WKHS [WS]= SIDE OPENING HOOD & CABLE CLAMP-ORDERED SEPARATELY-WITHOUT HDWE. (i.e. UMI-14-WKHS [UMI-14-WS])
KH [KH]= LONG TURNABLE JACKSCREWS (2-56 THD STAINLESS STEEL) USED WITH HOODS ONLY-
ORDERED SEPARATELY-WHEN ORDERING SPECIFY SERIES AND HOOD SIZE. (i.e. UMI-5-1KH [UMI-5-KH])

SPECIAL VARIATION OF STANDARD SERIES

CONSULT FACTORY
* FSC [FC] = SOLDER FILLED CUPS

CONTACT PLATING VARIATION

BLANK [A] = STANDARD GOLD FLASH WILL BE SUPPLIED
UNLESS OTHERWISE SPECIFIED.
30 [B] = .000030 IN. GOLD
50 [C] = .000050 IN. GOLD (PER M28748)

OPTIONAL REINFORCEMENT MTG BRACKET

BK = DESIGNATOR *TO ORDER BRACKETS SEPARATELY
SPECIFY SERIES, NO. OF CONTACTS & BK
(i.e. UMI-29BK)

OPTIONAL HARDWARE POLARIZATION

R = REVERSED HARDWARE DESIGNATOR
2M [M] = 2 MALE GUIDES, SCREWLOCKS OR JACKSCREWS
2F [F] = 2 FEMALE GUIDES, SCREWLOCKS OR JACKSCREWS

FIXED SCREWLOCKS-CHASSIS MTG

1SL [SL1]= 2-56 THD (STAINLESS STEEL)- .150 MTG. STUD EXT.)
2SL [SL2]= 3-48 THD (STAINLESS STEEL)- .150 MTG. STUD EXT.)
1SL25 [SL3]= 2-56 THREAD (STAINLESS STEEL)- .250 MTG. STUD EXT.)-PER MIL-28748
2SL25 [SL4]= 3-48 THREAD (STAINLESS STEEL)- .250 MTG. STUD EXT.)

SHORT TURNABLE SCREWLOCKS:

1K [K]= 2-56 THD (STAINLESS STEEL HARDWARE & KNOB)- PER MIL-28748
1KL [KL]= 2-56 THD, SHORT SLOTTED-KNOBLESS (STAINLESS STEEL)
2KL [KL2]= 3-48 THREAD, SHORT SLOTTED-KNOBLESS (STAINLESS STEEL)
1K15 [K15]= 2-56 THD SHORT SLOTTED KNOB #16 X .28 LONG (STAINLESS STEEL)
1K16 [K16]= 2-56 THD SHORT SLOTTED KNOB #19 X .32 LONG (STAINLESS STEEL)
1K17 [K17]= 2-56 THD 094 HEX SOCKET KNOB #16 X .24 LONG (STAINLESS STEEL)
1K18 [K18]= 2-56 THD 094 HEX SOCKET KNOB #19 X .30 LONG (STAINLESS STEEL)
1K19 [K19]= 2-56 THD SHORT SLOTTED KNOB #16 X .23 LONG (STAINLESS STEEL)
1K21 [K21]= 2-56 THD .078 HEX SOCKET KNOB #12 X .20 LONG (STAINLESS STEEL)
1K24 [K24]= 2-56 THD .094 HEX SOCKET KNOB #16 X .16 LONG (STAINLESS STEEL)
2K15 [K25]= 3-48 THD SHORT SLOTTED KNOB #16 X .28 LONG (STAINLESS STEEL)
2K16 [K26]= 3-48 THD SHORT SLOTTED KNOB #19 X .32 LONG (STAINLESS STEEL)
2K17 [K27]= 3-48 THD SHORT SLOTTED KNOB #16 X .24 LONG (STAINLESS STEEL)
2K18 [K28]= 3-48 THD SHORT SLOTTED KNOB #19 X .30 LONG (STAINLESS STEEL)

REV	DATE	DESCRIPTION
1	11/02/90	JMG
2		REVISED & REDRAWN
3		REVISED & REDRAWN
4		REVISED & REDRAWN
5		REVISED & REDRAWN
6		REVISED & REDRAWN
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100		REVISED & REDRAWN

PER ANSI Y14.5M-1982

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES:

DECIMALS .XX ±

FRACTIONS 1/16 ±

ANGLES .1° ±

SCALE:

MATERIAL:

FINISH:

DRAWN:

A.V.S.

DATE:

05/05/88

CHECKED:

L.V.

DATE:

05/06/88

APPROVED:

DATE:

05/08/88

DST CODE

TITLE

Littan

Winchester

Electronics

400 Park Road

Wallingford, Connecticut

06495

COMPOSITE OUTLINE ASSY.

UMI- 0 M/F CONNECTOR

C

093008

SHEET

1 OF 4

REV

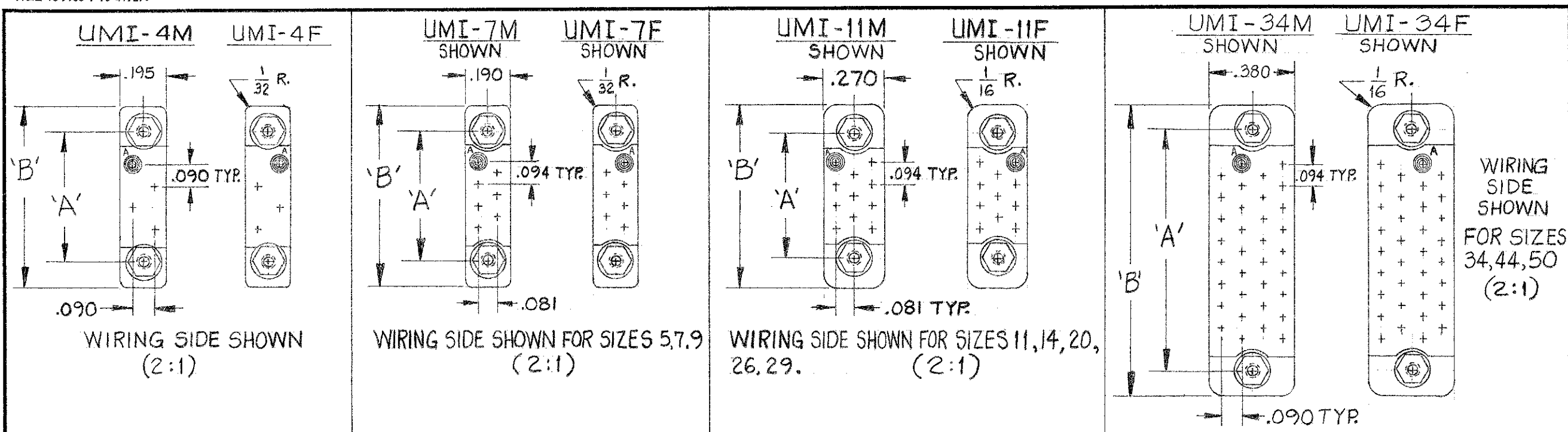
E

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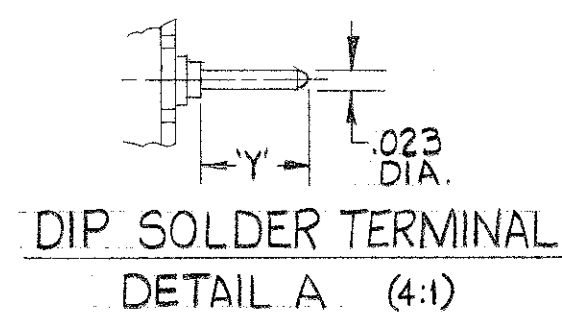
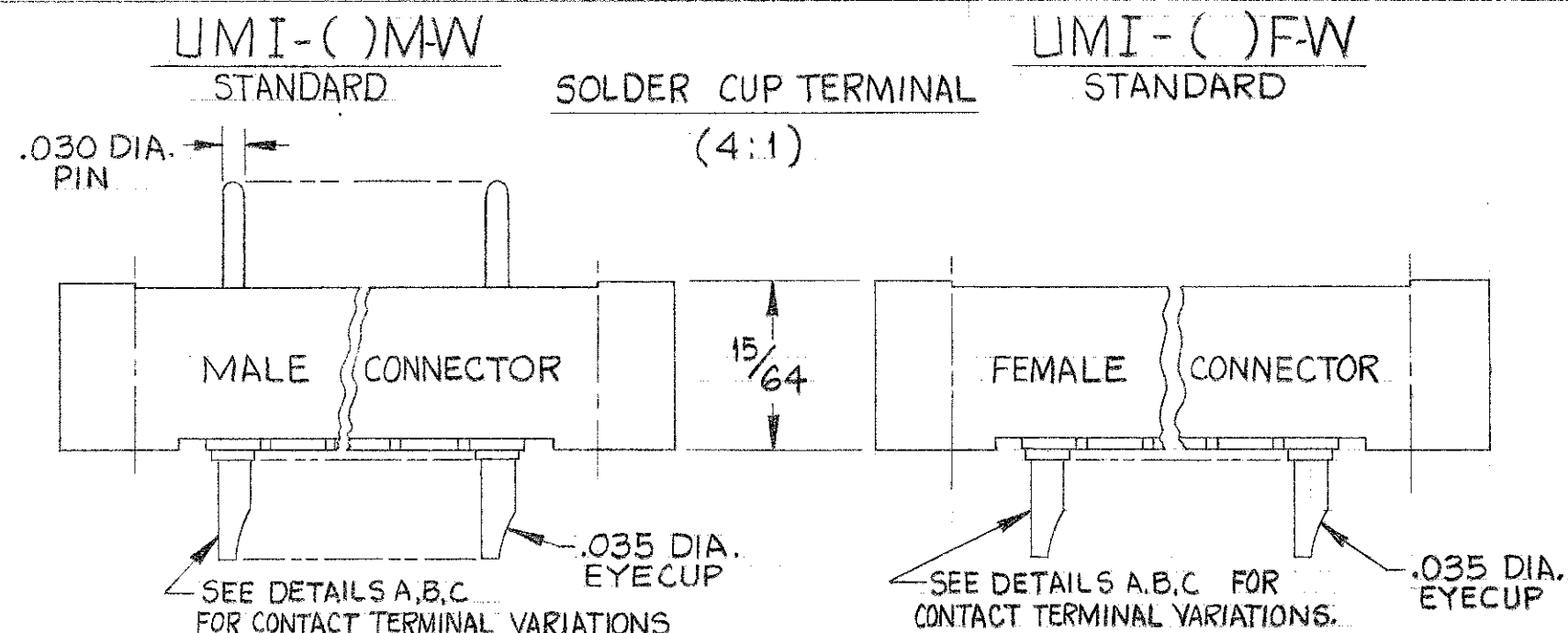
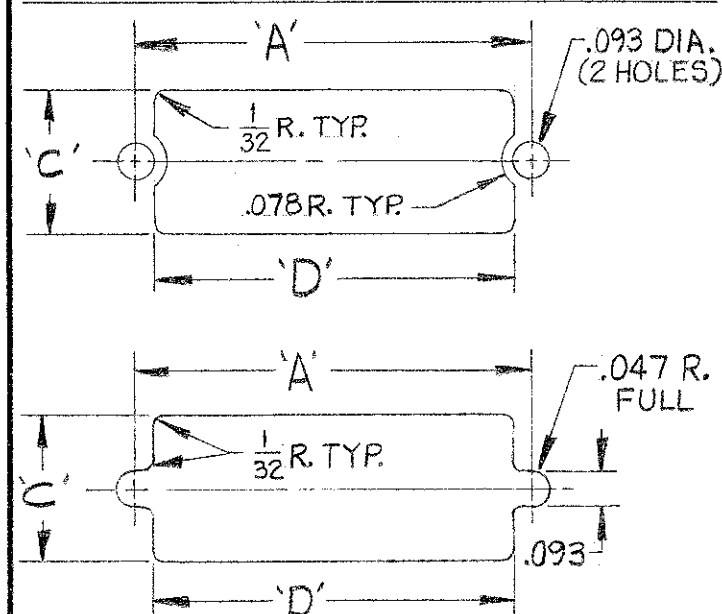
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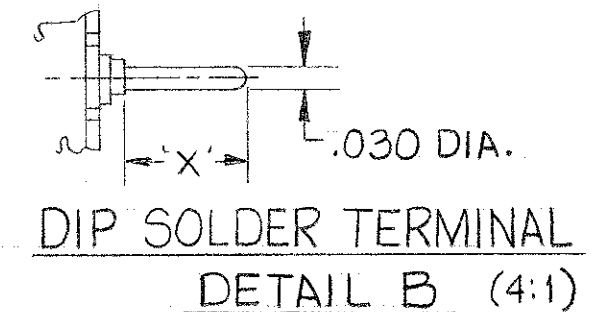
SIZE	'A'	'B'	'C'	'D' ^{+.010} _{-.000}
4	.562	²⁵ / ₃₂	.195	.468
5	.468	¹¹ / ₁₆	.190	.375
7	.562	²⁵ / ₃₂	.190	.468
9	.656	⁷ / ₈	.190	.562
11	.532	²⁵ / ₃₂	.270	.438
14	.625	⁷ / ₈	.270	.531
20	.814	^{1 1} / ₁₆	.270	.720
26	1.000	^{1 1} / ₄	.270	.906
29	1.094	^{1 11} / ₃₂	.270	1.000
34	1.032	^{1 1} / ₄	.380	.938
44	1.281	^{1 1} / ₂	.380	1.187
50	1.408	^{1 5} / ₈	.380	1.314

REVISIONS			
SYM.	DESCRIPTION	DATE	APP'D.
E	SEE SHEET 1	11/5/93	2/1

RECOMMENDED PANEL CUT-OUTS



TYPE	DIM. 'Y'
DD7	.065
DD14	.140
DD18	.180



TYPE	DIM. 'X'
DD13	.125
DD16	.156
DD31	.310

NOTES:

1-MATERIAL & FINISHES:

MOLDING - DIALYL PHTHALATE PER MIL-M-14, TYPE SDG-F.

CONTACTS - SPRING TEMPER PHOSPHOR BRONZE PER QQ-B-750, GOLD PLATED OVER COPPER OR BERYLLIUM COPPER PER QQ-C-530, GOLD PLATED OVER COPPER.

'C' WASHER - SPRING TEMPER PHOSPHOR BRONZE PER QQ-B-750, GOLD PLATED OVER COPPER.

SCREWLOCKS, NUTS, WASHERS - STAINLESS STEEL NON-MAGNETIC, PASSIVATED.

GUIDES - BRASS ASTM B16, GOLD PLATED OVER COPPER OR STAINLESS STEEL #303, PASSIVATED.

HOODS & C. CLAMPS, BRACKET - ALUMINUM, ANODIZED PER MIL-M-8625A.

KNOBS, SET SCREWS, NUTS - STEEL, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.

RET. RING - BRASS PER QQ-B-626, NICKEL PLATED.

C.C. SCREWS - BRASS, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.

LOCKWASHER - PHOSPHOR BRONZE, CADMIUM PLATED PER QQ-P-416, IRIDESCENT GOLD COLOR.

2-ELECTRICAL SPECIFICATIONS:

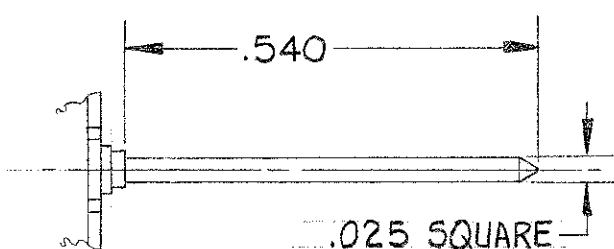
CONTACT SIZE - NO. 22 (.030 DIA.) ACCOMMODATES NO. 22 A.W.G. WIRE.

CONTACT RATING - 5 AMPS.

CREEPAGE PATH BETWEEN CONTACTS - ¹/₁₆ MIN.

AIR SPACE BETWEEN CONTACTS - .031 MIN.

	TEST VOLTAGE	WORKING VOLTAGE
SEA LEVEL	1000 VOLTS A.C. RMS.	490 VOLTS D.C.
70,000	300 VOLTS A.C. RMS.	125 VOLTS D.C.



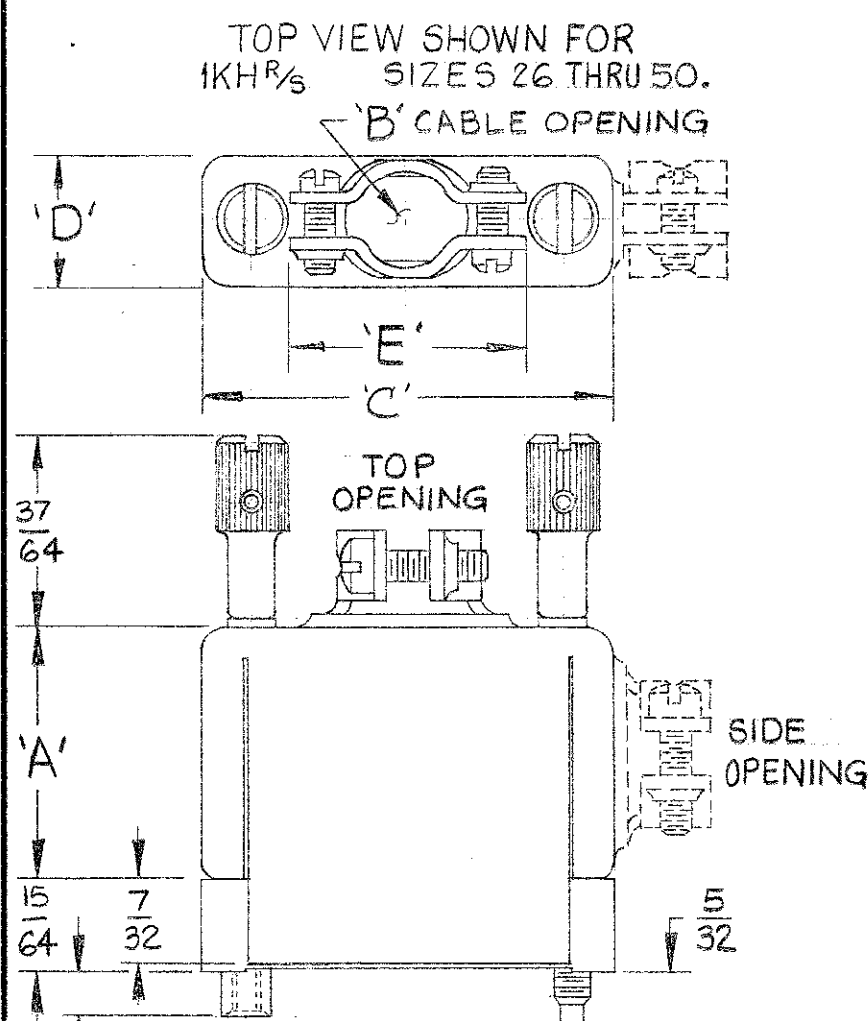
WIRE WRAP TERMINAL
DETAIL 'C' (4:1)

EFFECTIVE APRIL 21, 1989 THIS DRAWING BECAME THE PROPERTY OF LITTON SYSTEMS, INCORPORATED WINCHESTER ELECTRONICS DIVISION 400 PARK RD., WATERTOWN, CT 06795

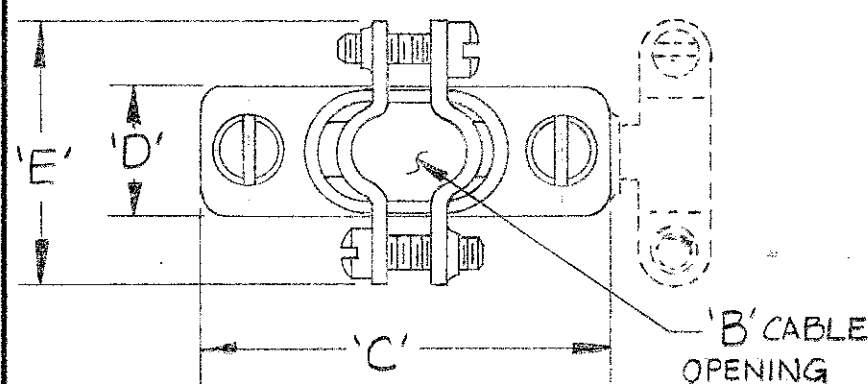
THIS DRAWING, THE DESIGNS, AND IDEAS EMBODIED IN THE DEVICE TO WHICH IT RELATES, AND THE METHODS OF PRODUCING THE DEVICE ARE THE PROPERTY OF U. S. COMPONENTS, INC. AND SHALL NOT BE EMPLOYED, COPIED, OR DISCLOSED TO ANYONE, IN ANY MANNER WITHOUT THE CONSENT OF U. S. COMPONENTS, INC.

APPLICATION		
TOLERANCES UNLESS OTHERWISE SPECIFIED	DECIMALS	FRACTIONS
± .005	± ¹ / ₆₄	±

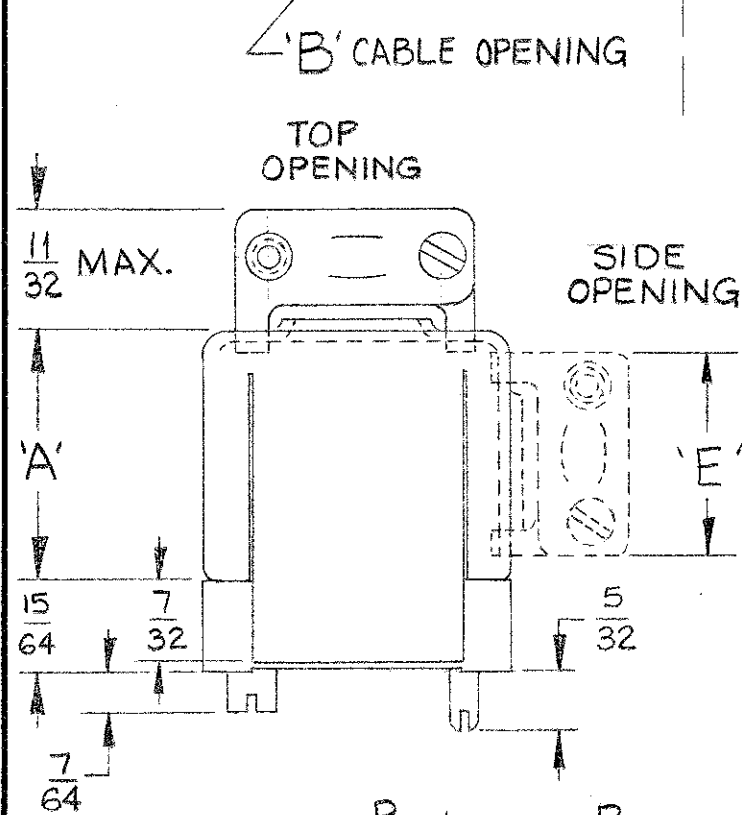
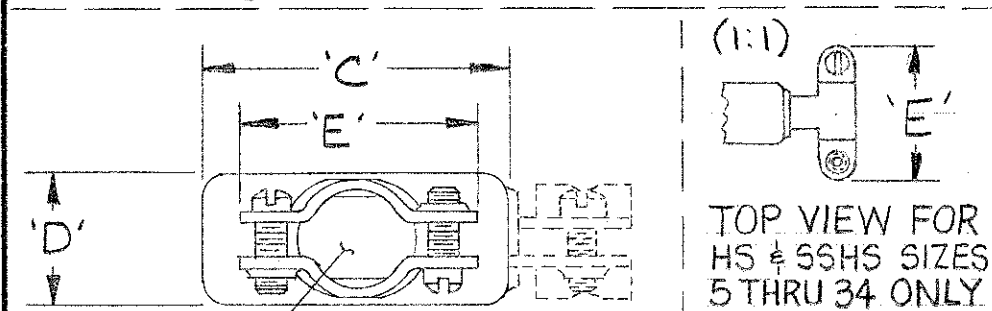
U.S. COMPONENTS INC.			
35 CARLOUGH ROAD BOHEMIA, N.Y. 11716			
TITLE COMPOSITE OUTLINE ASSY, UMI-() M/F CONNECTOR			
MATERIAL	DRAWN BY	DATE	REV.
	AK	3-18-87	
FINISH	APP'D. BY	DATE	
	AW	4-24-87	
SCALE AS NOTED	DRAWING NUMBER		
	093008 SH.2 OF 4		



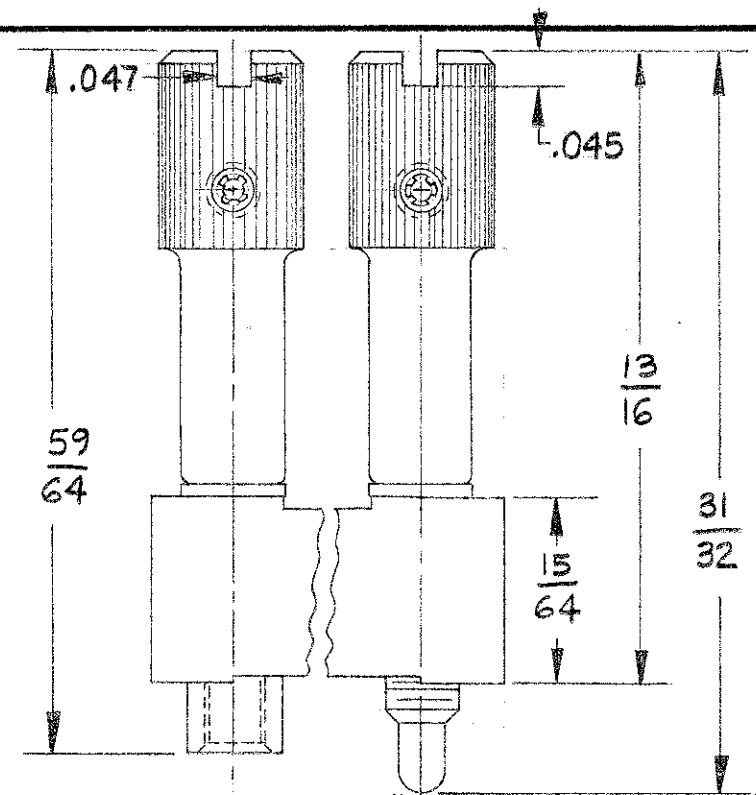
TYPE 1KH^R
LONG TURNABLE SCREWLOCKS WITH
HOOD & CABLE CLAMP (2:1)



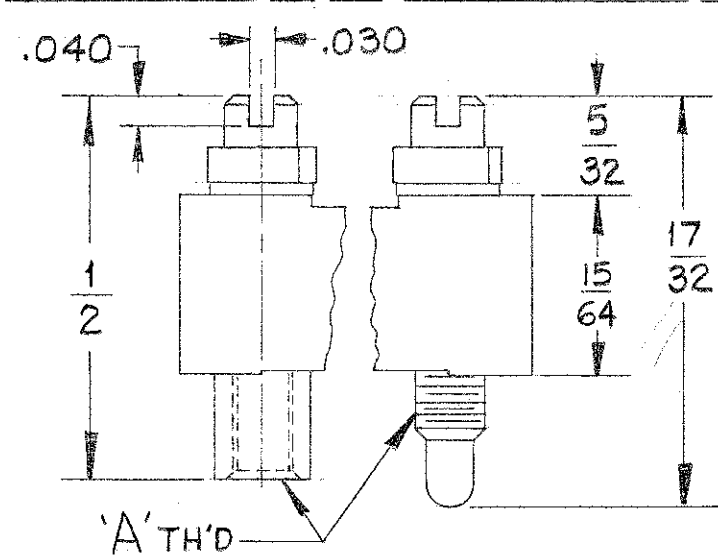
TOP VIEW SHOWN FOR
1KH^R/S SIZES 5 THRU 50.



TYPE H^R & SSH^R
STANDARD GUIDES WITH HOOD & CABLE CLAMP.
ST. ST. GUIDES WITH HOOD & CABLE CLAMP. (2:1)



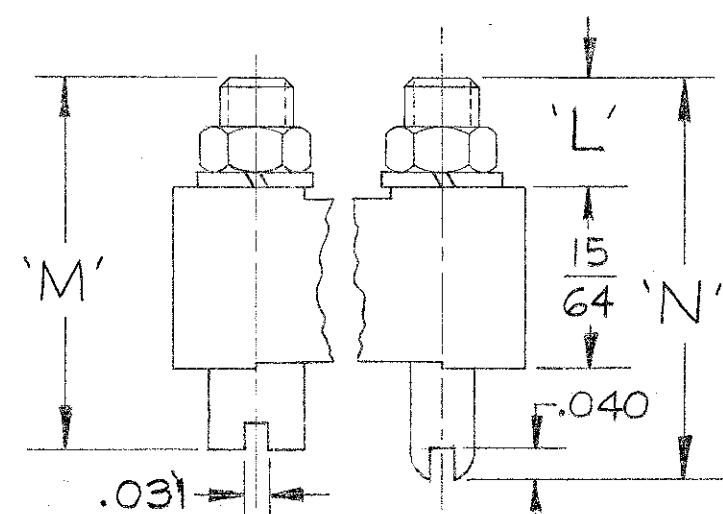
TYPE 1K
2-56 TH'D SHORT TURNABLE SCREWLOCKS
WITH KNOB (4:1)



TYPE 1KL & 2KL

TYPE	'A' THREAD
1KL	2-56
2KL	3-48

SHORT TURNABLE SCREWLOCKS
KNOBLESS (4:1)

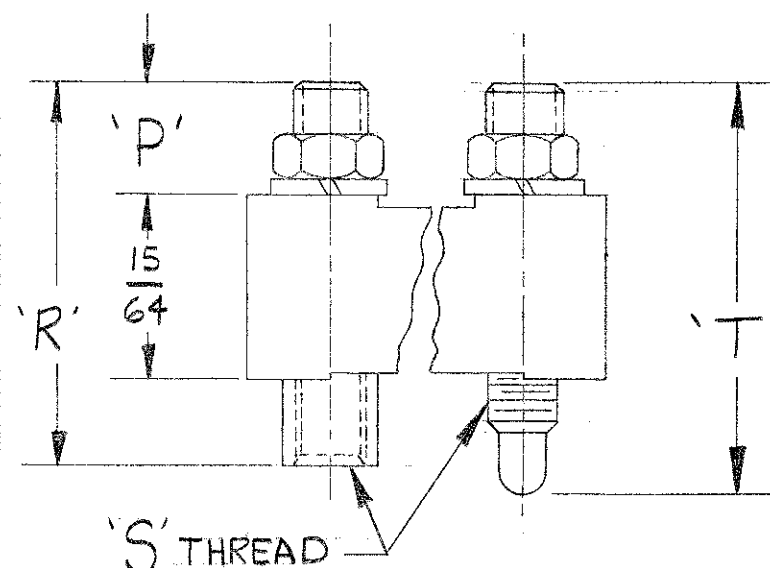


TYPE GUIDES

STANDARD POLARIZED BRASS GUIDES OR OPTIONAL
STAINLESS STEEL GUIDES .150 MTG STUD EXT.
OR .250 MTG. STUD EXT. (4:1)

STYLE	'L'	'M'	'N'
ST'D	.150	.484	.531
SS	.150	.484	.531
SS25	.250	.578	.625

EFFECTIVE APRIL 21, 1989 THIS
DRAWING BECAME THE PROPERTY OF
LITTON SYSTEMS, INCORPORATED
WINCHESTER ELECTRONICS DIVISION
400 PARK RD., WATERTOWN, CT 06795



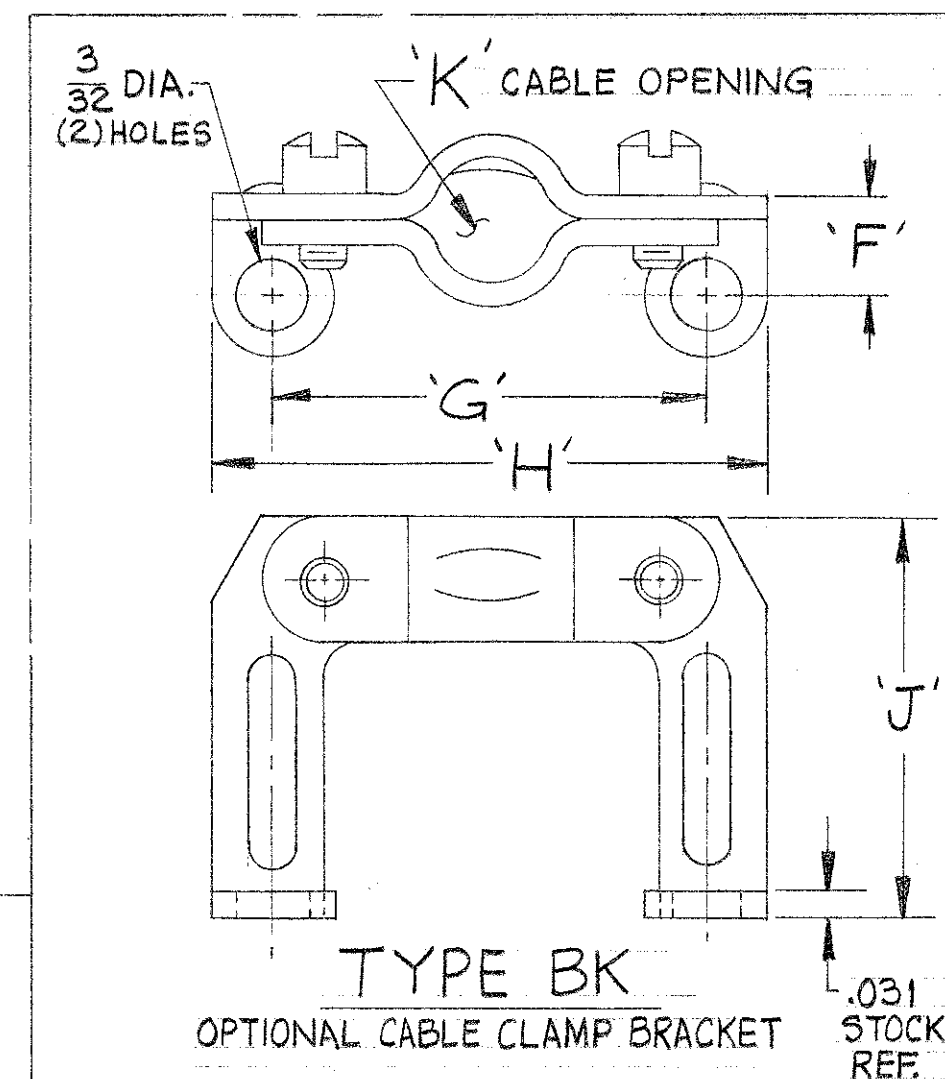
TYPE SCREWLOCKS
FIXED SCREWLOCKS-CHASSIS MTG. (4:1)

STYLE	'P'	'R'	'S' THREAD	'T'
1SL	.150	.500	2-56	.543
2SL	.150	.500	3-48	.543
1SL25	.250	.590	2-56	.630
2SL25	.250	.590	3-48	.630

ON MALE CONNECTORS FEMALE GUIDE OR SCREWLOCK
MOUNTED AT 'A' END.
ON FEMALE CONNECTORS MALE GUIDE OR SCREWLOCKS
MOUNTED AT 'A' END.

SIZE	'D' REF.	'A'	'B' CABLE OPENING 1KH ^R /S	'B' CABLE OPENING H ^R /S	'C'	'E' HS & SSHS	'E' HR & SSHR	'E' 1KH ^R /S	'F' REF.	'G' ±.010	'H' REF.	'J' MAX.	'K' CABLE OPENING REF.
5	1/4	5/8	.18 x .33	.18 x .24	11/16	19/32	39/64	19/32	—	—	—	—	—
7	1/4	5/8	.18 x .33	.18 x .33	25/32	19/32	39/64	19/32	.130	.562	.72	.50	.13 x .16
9	1/4	5/8	.18 x .33	.18 x .33	7/8	19/32	39/64	19/32	.130	.656	.81	.50	.13 x .16
11	21/64	5/8	.24 x .33	.24 x .33	25/32	19/32	39/64	19/32	.130	.532	.69	.50	.17 x .22
14	21/64	5/8	.24 x .33	.24 x .33	7/8	19/32	39/64	11/16	.130	.625	.78	.50	.17 x .22
20	21/64	5/8	.24 x .46	HR .24 x .46 HS .18 x .31	1 1/16	19/32	53/64	11/16	.130	.814	.97	.87	.26 x .31
26	21/64	5/8	.24 x .46	.24 x .46	1 1/4	11/16	53/64	53/64	.130	1.000	1.16	.87	.39 x .44
29	21/64	5/8	.24 x .46	.24 x .46	1 11/32	11/16	53/64	53/64	.130	1.094	1.25	.87	.39 x .44
34	7/16	5/8	.34 x .46	.34 x .46	1 1/4	11/16	53/64	53/64	.190	1.032	1.19	.87	.42 x .47
44	7/16	1 3/16	.34 x .46	.34 x .46	1 1/2	53/64	53/64	53/64	.190	1.281	1.44	.87	.46 x .53
50	7/16	1 3/16	.34 x .46	.34 x .46	1 5/8	53/64	53/64	53/64	.190	1.408	1.56	.87	.46 x .53

REVISIONS		
SYM.	DESCRIPTION	DATE APP'D.
E	SEE SHEET 1	11/5/80 JH



TYPE BK
OPTIONAL CABLE CLAMP BRACKET .031 STOCK REF.

U.S. COMPONENTS INC. 35 CARLOUGH ROAD BOHEMIA, N.Y. 11716			
TITLE COMPOSITE OUTLINE ASSY, UMI- () M/F CONNECTOR			
MATERIAL	DRAWN BY BR	DATE 5-23-87	REV. E
FINISH	APP'D. BY RL	DATE 4-24-87	
SCALE AS NOTED	DRAWING NUMBER 093008 ST3 of 4		

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ANY MANNER WITHOUT THE CONSENT
OF U.S. COMPONENTS, INC.

APPLICATION		
NEXT ASS'Y	USED ON	
TOLERANCES UNLESS OTHERWISE SPECIFIED		
DECIMALS	FRACTIONS	ANGULAR
±	±	±

4

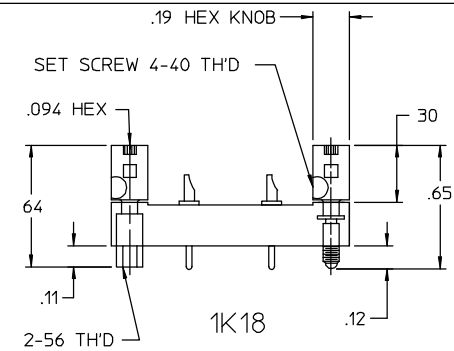
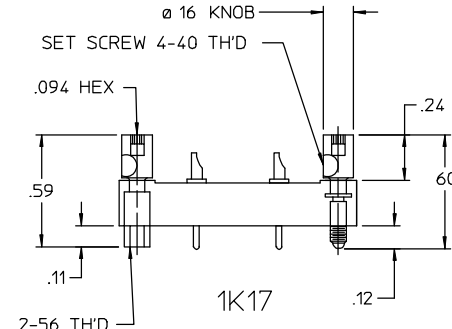
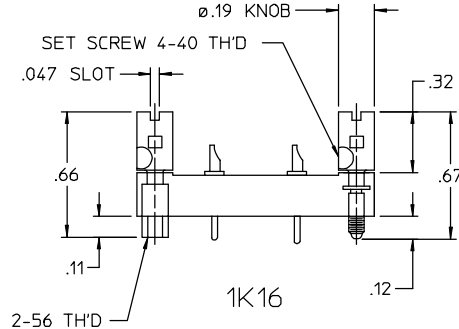
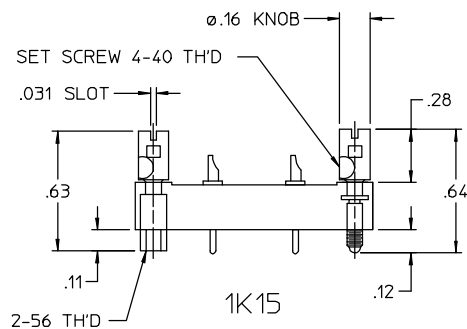
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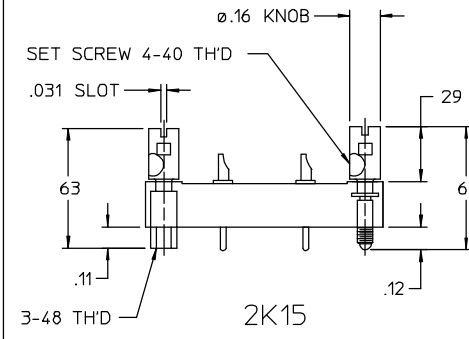
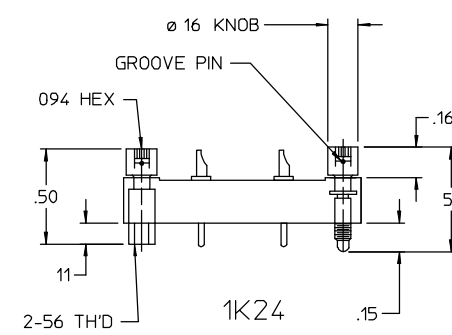
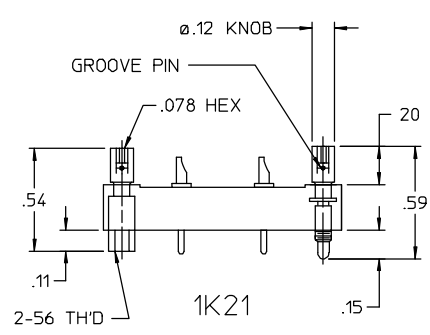
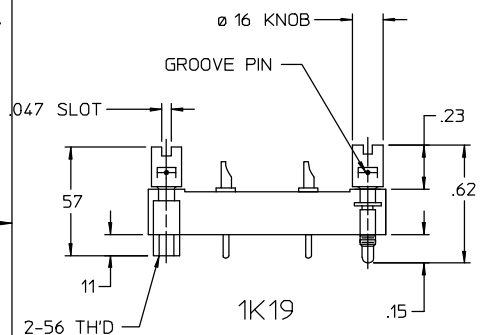
OPTIONAL KNOB CONFIGURATIONS FOR TURNABLE JACKSCREWS

D



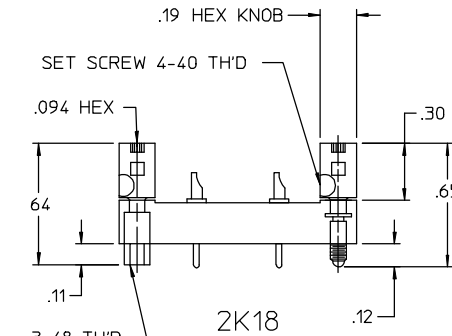
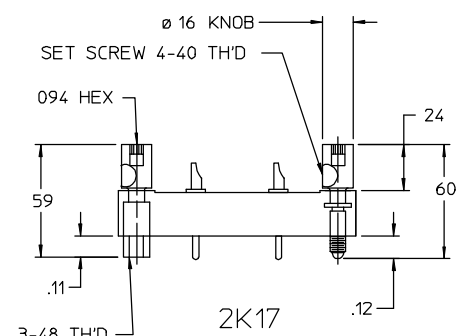
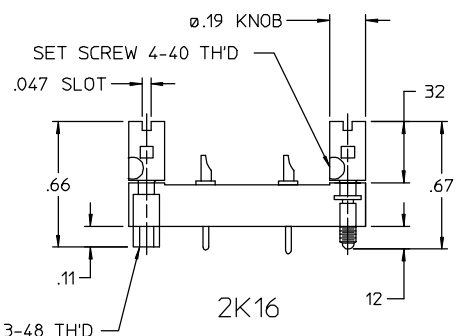
D

C



C

B



B

A

REV	DATE	DESCRIPTION	BY	APPD
1	11/05/90	REVISOR & REDRAWN ECRH 1550 ECRH 1821	JMG	
2				
3				
4				

PER ANSI Y14.5M-1982
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES
DECIMALS .XX ±
XXX ±
ANGLES ±



DISY. CODE

Litton
Winchester
Electronics

400 Park Road
Waterbury, Connecticut
06725

TITLE		REV.
COMPOSITE OUTLINE ASSY. UMI- () M/F CONNECTOR		
C	093008	SH. 4 OF 4
		E

A

4

3

2

1