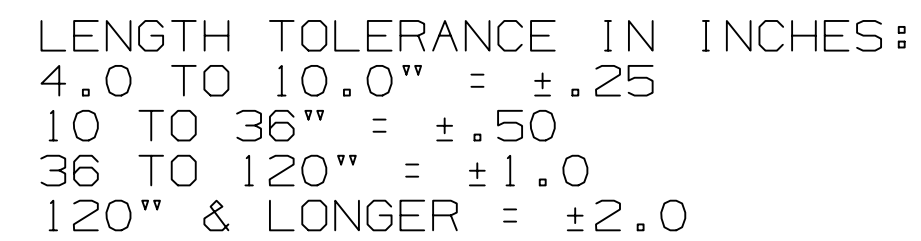


DUAL ROW 2MM SCI CARRIER AND 2MM LATCH/EJECT SHROUDED HEADER, COAX AND DUAL COAX CABLE

- 6 ELECTRICAL PERFORMANCE :
 CURRENT RATING: 1A, ALL LINES
 INSULATION RESISTANCE: 5×10^9 OHMS
 WITHSTANDING VOLTAGE: 500 V_{DC} FOR 1 MINUTE
 CHARACTERISTIC IMPEDANCE: 50 OHMS & 75 OHMS SINGLE ENDED, 85 OHMS & 100 OHMS DIFFERENTIAL
 CABLE VOLTAGE RATING: 30V

PITCH: 2.0 [.079], SIGNAL TO SIGNAL
MATING PIN: .5 [.0197] SQUARE ----- [3] [4]
CONTACT MATE POINT: 2.4 [.094]
CONNECTOR INSERTION FORCE: 180 gms [.41 lbs], SIGNAL TO GROUND
CONNECTOR WITHDRAWL FORCE: 115 gms [.25 lbs], SIGNAL TO GROUND
DURABILITY (INSERTION/WITHDRAWL): 500 CYCLES

-40°C TO +105°C



LEFT CONNECTOR TYPE/RIGHT CONNECTOR TYPE _____

COAX VERSION, CARRIER STYLE:

25 = WITH EDGE GROUND CLIP

27 = WITHOUT GROUND CLIP

29 = WITH FACE GROUND CLIP

TWINAX VERSION, CARRIER STYLE:

26 = WITH EDGE GROUND CLIP

28 = WITHOUT GROUND CLIP

44 = WITH RAISED FACE GROUND CLIP

98XXXX-XXX-XXX.X-X

HARNESSING

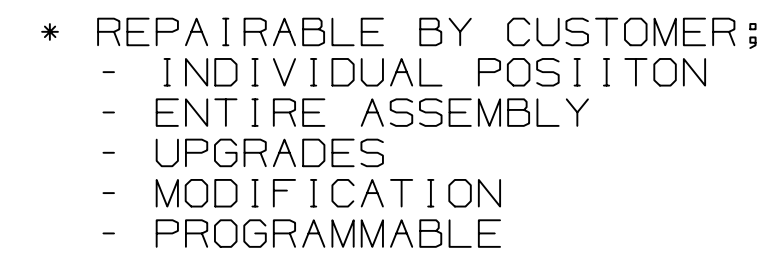
A = MULTIPLE ASS'S HARNESSED

O = SINGLE ASS'Y ONLY

LENGTH (IN INCHES)

CABLE TYPE

027 = 50Ω COAX (26 AWG CONDUCTOR)



NOTES

1. CONNECTOR MATERIAL:
INSULATOR:
THERMOPLASTIC, UL94V-0
CONTACT AND SHIELD:
COPPER ALLOY.
2. CONTACT AND SHIELD PLATING:
100 μ AVG. NICKEL UNDERPLATE
30 μ AVG. GOLD ON WIPE AREA.
3. RECOMMENDED TO BE MATED TO
SQUARE PIN RANGE:
.40 TO .64 (.0159 TO .0250)
4. CONNECTOR INSERTION FORCE:
180 GMS TYPICAL (.4 LBS)
SIGNAL TO GROUND,
.51 (.020) PIN.

CONNECTOR WITHDRAWAL FORCE:
115 GMS TYPICAL (.25 LBS)
SIGNAL TO GROUND,
.51 (.020) PIN.
5. NOTE REMOVED.
6. IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND THAT
CONTAINED IN THE PRODUCT
SPECIFICATION, THE PRODUCT
SPECIFICATION TAKES PRECEDENT.
7. SCI CABLE ASSEMBLIES ARE
INDIVIDUALLY PLACED OR
REMOVED IN EACH POSITION OF
THE CARRIERS SHOWN ON THIS
TECH SHEET.
8. NOTE REMOVED.
9. REGULATORY INFORMATION:
VISIT 3M.com/regs

E	107117	NOV 10, 2013		JNC	FJR
		REMOVED DISCONTINUED ITEMS			
D	36288	NOV 08, 2011		JNC	RS
		REVISED AND REDRAWN			
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT CASTIGLIONE		DATE SEP 20, 2011	MFG	DATE	
CHKD	DATE		APPROV. R. SCHERER	DATE SEP 20, 2011	
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TITLE					
SCI, CABLE ASS'Y, 2MM CONNECTORS, COAX AND DUAL COAX CABLES					
CAGE NUMBER	SIZE	DRAWING NO.			REV.
D		28-5100-2105-4			E
MODEL	99XXXX		DET.	LISTS ☐ YES ☒ NO	
			SHT	1 OF 4	

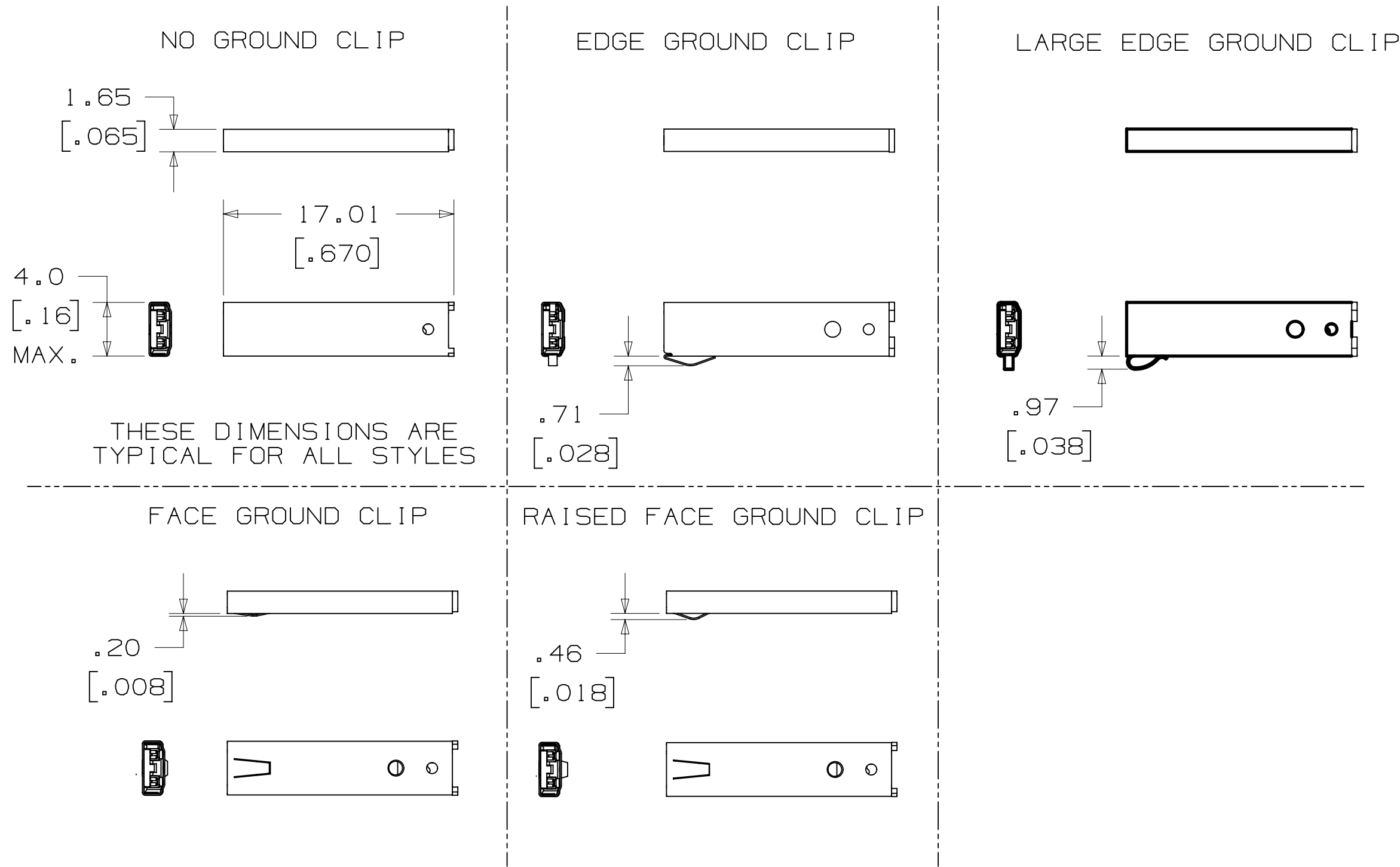
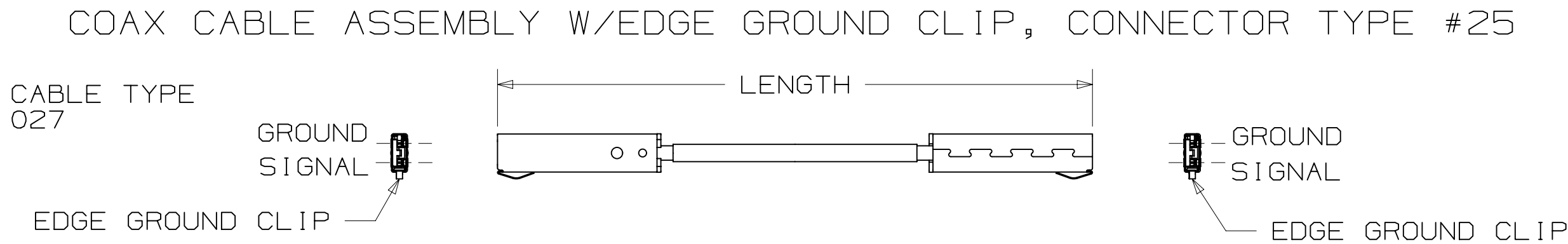
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UL FILE NO: E86892

3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES, 2MM SERIES

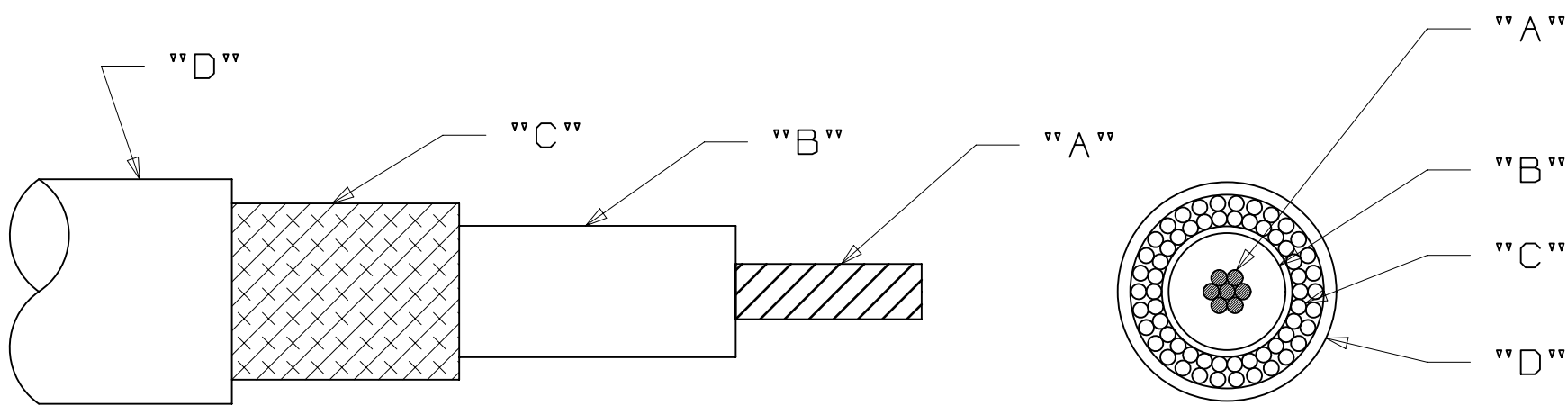
DUAL ROW 2MM SCI CARRIER AND 2MM LATCH/EJECT SHROUDED HEADER, COAX AND DUAL COAX CABLE

1. FOR GROUNDING RECOMMENDATIONS, PLEASE CONTACT 3M TECHNICAL SUPPORT.



COAXIAL CABLE

COAX PHYSICAL PROPERTIES (TYP)					
CABLE TYPE		"A" CENTER CONDUCTOR	"B" DIELECTRIC MATERIAL	"C" SHIELD	"D" JACKET
027 COAX BLUE	50 OHM	26 AWG SILVER PLATED COPPER (7/34) .48MM [.019] OD	AIR / FEP	DUAL LAYER SILVER PLATED COPPER WIRE SERVED SHIELD	FEP 1.80MM [.071] OD



COAX ELECTRICAL PROPERTIES (TYP)				
CABLE TYPE	CAPACITANCE	PROPAGATION DELAY	ATTENUATION	
027 50 OHM	78.7 pF/m [24 pF/ft] MAX.	3.8 nS/m [1.15 nS/ft] NOM.	10m @ 650 MHz [-8.23 dB]	

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INTERCONNECT SOLUTIONS
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E		107117		NOV 10,2023		JNC	FJR
D		36288		NOV 08,2011		JNC	RS
REV		ECO		ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRPT		CASTIGLIONE		DATE SEP 20,2011		MFG	DATE
CHKD		DATE		APPR R. SCHERER		DATE SEP 20,2011	
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INTERPRET PER ASME Y14.5 - 2018		INCHES		TITLE			
MAX SURFACE ROUGHNESS		MILLIMETERS		SCI, CABLE ASS'Y, 2MM CONNECTORS, COAX AND DUAL COAX CABLES			
SURFACES		ANGLES		CAGE NUMBER		DRAWING NO.	
MARKED ONLY		ANGLES		D 78-5100-2105-4		REV.	
				MODEL 98XXXX		DET.	
				YES		NO	
				SHT 2 OF 4			

3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES, 2MM SERIES
DUAL ROW 2MM SCI CARRIER AND 2MM LATCH/EJECT SHROUDED HEADER, COAX AND DUAL COAX CABLE

2MM SCI CARRIER DIMENSIONS
AND STANDARD SIZES

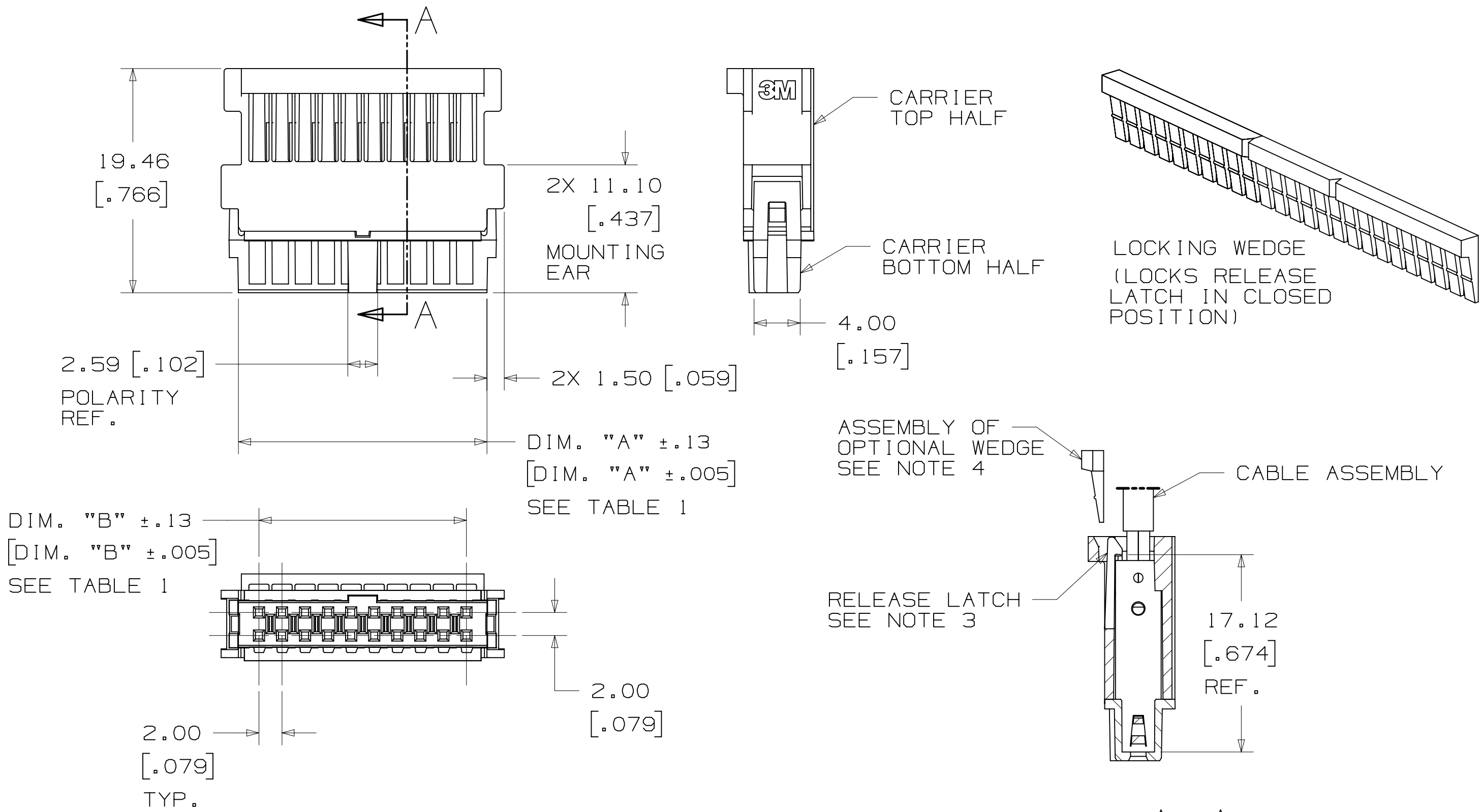


TABLE 1: CARRIER POSITIONS

SCI POSITIONS	CONTACT QTY.	DIM. "A"	DIM. "B"
3	6	7.56 [.298]	4.00 [.157]
4	8	9.56 [.377]	6.00 [.236]
* 5	10	11.56 [.455]	8.00 [.315]
6	12	13.56 [.534]	10.00 [.394]
8	16	17.56 [.692]	14.00 [.551]
* 10	20	21.56 [.849]	18.00 [.709]
11	22	23.56 [.928]	20.00 [.787]
* 12	24	25.56 [1.006]	22.00 [.866]
13	26	27.56 [1.085]	24.00 [.945]
* 15	30	31.56 [1.243]	28.00 [1.102]
* 17	34	35.56 [1.400]	32.00 [1.260]
* 20	40	41.56 [1.636]	38.00 [1.496]
22	44	45.56 [1.794]	42.00 [1.654]
* 25	50	51.56 [2.030]	48.00 [1.890]

* AVAILABLE NOW; CONTACT 3M SALES FOR OTHER POSITIONS

ORDERING INFORMATION:
LATCH/EJECT HEADER AND CARRIER

CARRIER: 93XX

CONTACT QTY. SEE TABLE 1

LOCKING WEDGE: 70-0100-1578-5
25 POSITION (CUT TO LENGTH)

HEADER AND LATCH: 1552XX-X4XX

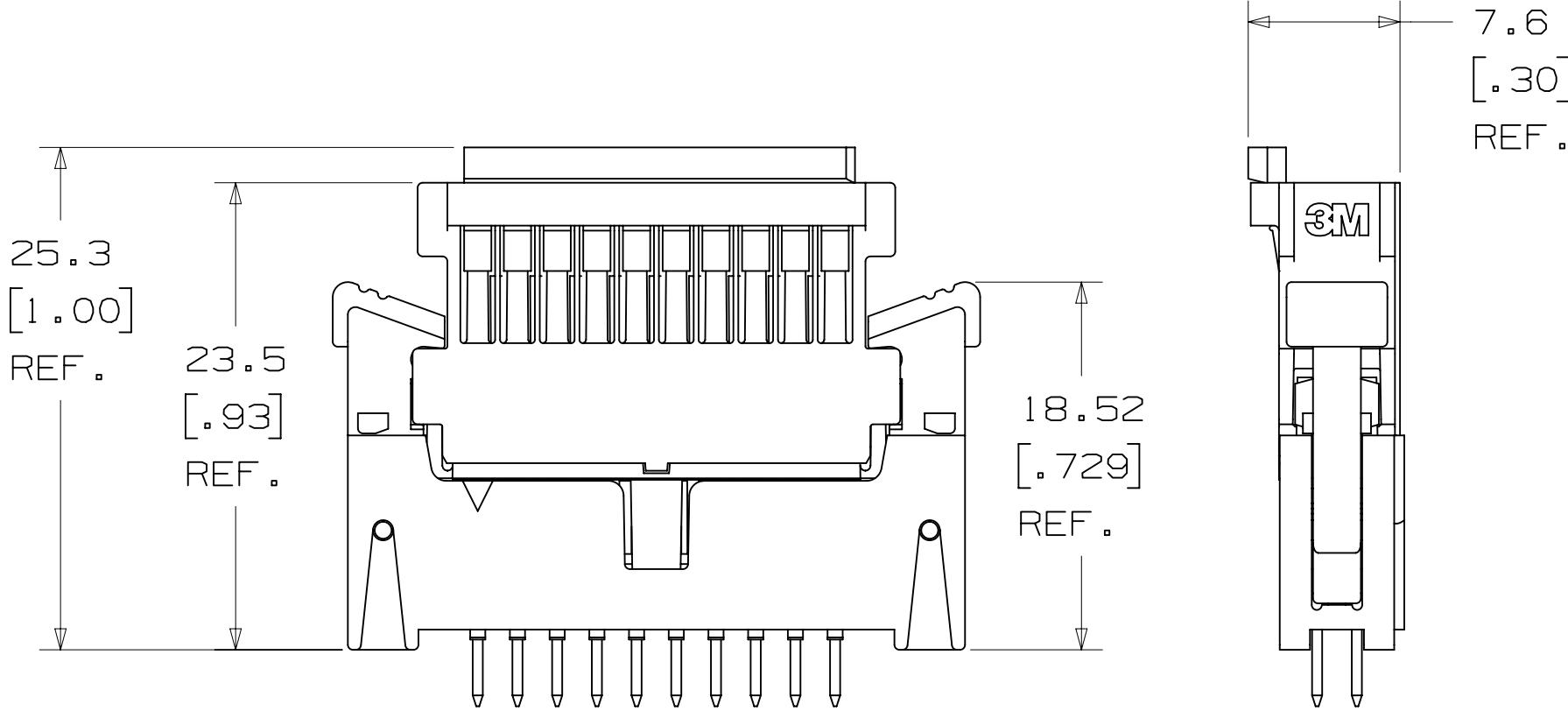
EJECTOR LATCH, SCI CARRIER

LATCH ONLY: 70-0100-3045-3

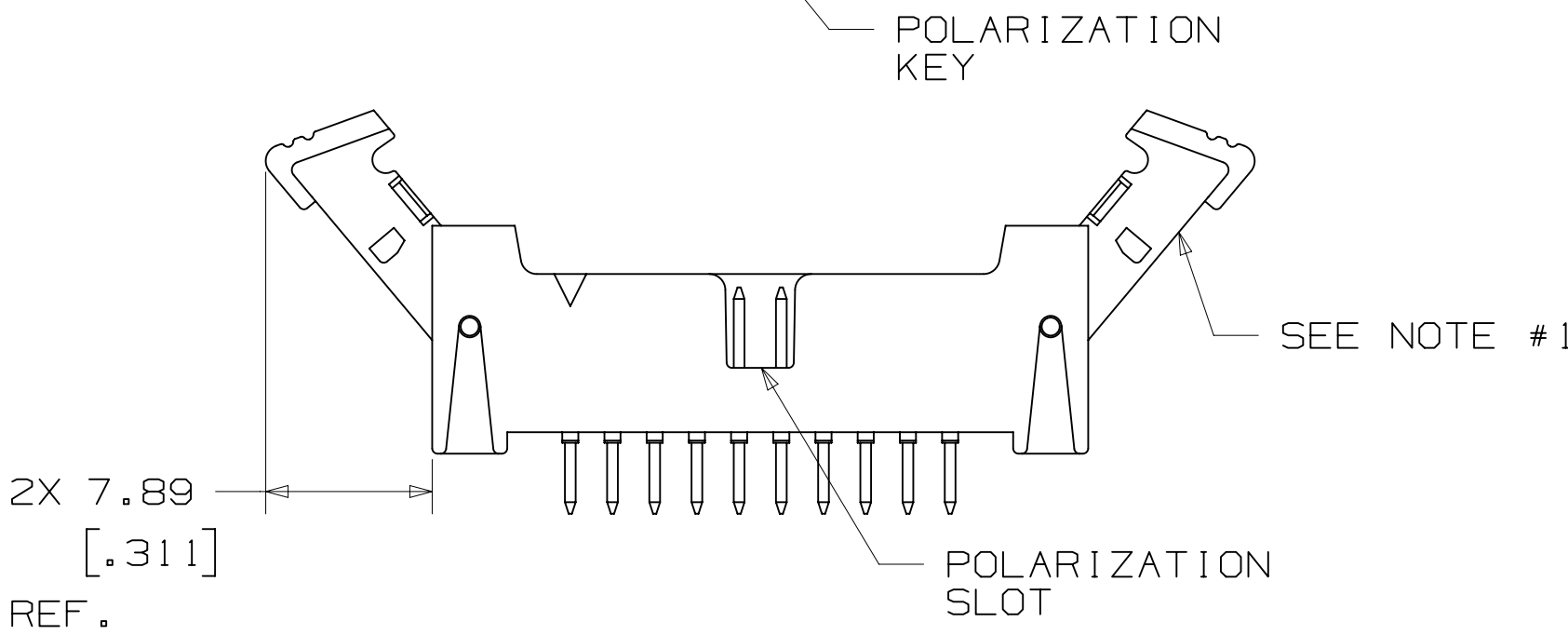
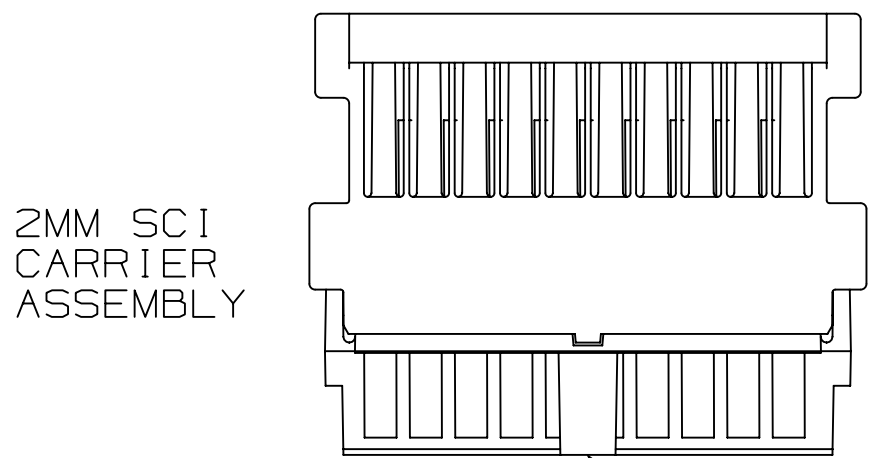
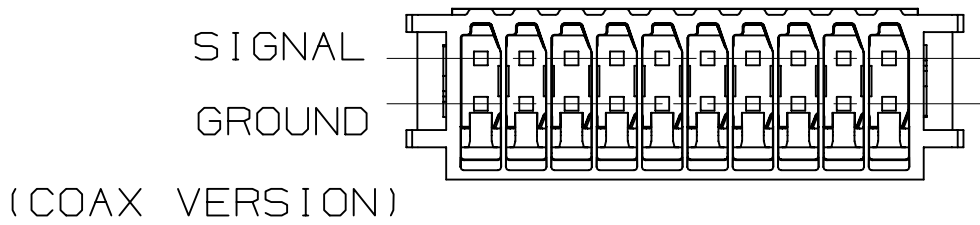
(SEE TS-2199 FOR FULL HEADER PART NUMBER)

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2MM SCI CARRIER MATES WITH 2MM
LATCH/EJECT HEADER 1552XX-X4XX



2 COMPATIBLE
2MM LATCH
EJECT HEADER

- NOTES
- 1 LATCH MUST BE PLACED IN APPROXIMATE POSITION SHOWN BEFORE INSERTING CARRIER.
 - 2 COMPATIBLE 2MM LATCH EJECT HEADER 1552XX-X4XX. MUST ORDER ABOVE PART NUMBER FOR PROPER LATCH SIZE (#4).
 - 3 RELEASE LATCH CAN BE MOVED WITH FINGERNAIL TO ALLOW REPLACEMENT OF SCI CABLE LINE.
 - 4 OPTIONAL LOCKING WEDGE PREVENTS SCI REMOVAL.

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
107117	NOV 10, 2023	JNC	FJR	REMOVED DISCONTINUED ITEMS		
36288	NOV 08, 2011	JNC	RS	REVISED AND REDRAWN		
CSTIGLIONE	SEP 20, 2011	APPR	R. SCHERER	DATE	DATE	DATE
CHKD	DATE	DATE	DATE	DATE	DATE	DATE
DIVISION	DIVISION CODE	EMSD	3M Center	St. Paul, MN 55144		
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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS				
MAX SURFACE ROUGHNESS	SURFACES	MARKED ONLY				
MODEL	98XXXX	LISTS	YES	NO	SHT	3 OF 4

DUAL ROW 2MM SCI CARRIER AND 2MM LATCH/EJECT SHROUDED HEADER, COAX AND DUAL COAX CABLE

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E	107117	NOV 10, 2013		JNC	FJR
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REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT	CAST IGLIONE		DATE	SEP 20, 2011	MPG
CHKD			DATE		ASPRV
			R. SCHERER		
			DATE	SEP 20, 2011	
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TITLE					
SCI, CABLE ASS'Y, 2MM CONNECTORS, COAX AND DUAL COAX CABLES					
CAGE NUMBER	DRAWING NO.				REV.
D	78-5105-2105-4				E
MODEL	98XXXX		DET.	LISTS ☐ YES ☒ NO	
			SHT	4 OF 4	