3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES

2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

- HIGH DENSITY 2.0MM CENTER SPACING.
- MATES WITH THE FOLLOWING:
  COMPACTPCI®
  HSHM
  FUTUREBUS®
  3M™ 2MM LATCH EJECT/HEADER
  1552 SERIES
  2MM PIN STRIP HEADERS
  1512 SERIES.
- ROBUST METAL GROUNDED CONNECTOR HOUSING PROVIDES IMPEDANCE CONTROL AND EMI SHIELD.
- AVAILABLE WITH HIGH PERFORMANCE COAXIAL OR TWINAXIAL CABLES.
- FOR HIGH SPEED DATA TRANSMISSION; PROVIDES UP TO 12 GHz PERFORMANCE (CONTACT 3M FOR ADDITIONAL DATA).
- LOW CROSS TALK, FULLY SHIELDED.
- AVAILABLE WITH OR WITHOUT EXTERNAL GROUND CLIPS.
- 64 POSITION CARRIER AVAILABLE, MULTIPLE SIZES OF LATCH EJECT CARRIER.
- CONTACT 3M FOR CUSTOM CONFIGURATIONS.

[6] ELECTRICAL PERFORMANCE:

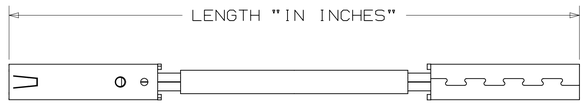
CURRENT RATING: 1A, ALL LINES
INSULATION RESISTANCE: $5X10^9$ OHMS
WITHSTANDING VOLTAGE: 500 V_{DC} FOR 1 MINUTE
CHARACTERISTIC IMPEDANCE: 50 OHMS & 75 OHMS SINGLE ENDED, 85 OHMS & 100 OHMS DIFFERENTIAL
CABLE VOLTAGE RATING: 30V

[6] MECHANICAL:

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

[6] ENVIRONMENTAL:

-40°C TO +105°C



LENGTH TOLERANCE IN INCHES:
4.0 TO 10.0" = ±.25
10 TO 36" = ±.50
36 TO 120" = ±1.0
120" & LONGER = ±2.0

CABLE ASSEMBLY ORDERING INFORMATION-INDIVIDUAL LINES

98XXXX-XXX-XXX.X-X

LEFT CONNECTOR TYPE/RIGHT CONNECTOR TYPE

COAX VERSION, CARRIER STYLE:
25 = WITH EDGE GROUND CLIP
27 = WITHOUT GROUND CLIP
29 = WITH FACE GROUND CLIP
41 = WITH LARGE EDGE GROUND CLIP
43 = WITH RAISED FACE GROUND CLIP

DUAL COAX VERSION, CARRIER STYLE: (SEE NOTE 8)
02 = WITH EDGE GROUND CLIP
04 = WITHOUT GROUND CLIP
08 = WITH FACE GROUND CLIP
09 = WITH LARGE EDGE GROUND CLIP
10 = WITH RAISED FACE GROUND CLIP

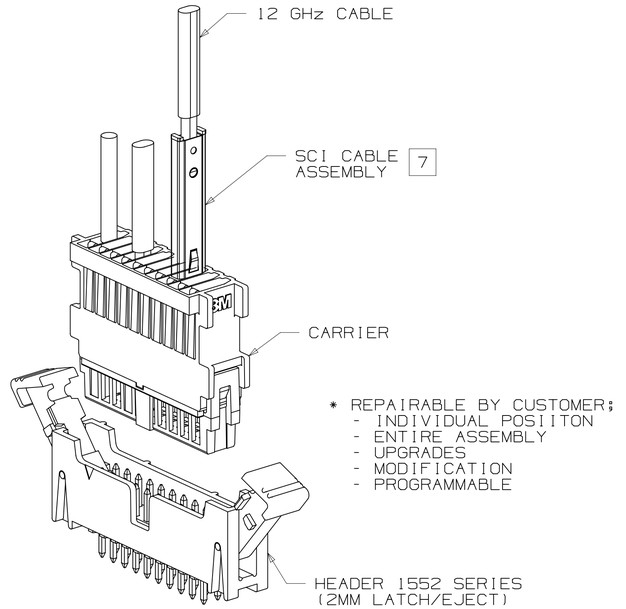
OFFSET COAX VERSION, CARRIER STYLE: (SEE NOTE 8)
32 = WITH EDGE GROUND CLIP

TWINAX VERSION, CARRIER STYLE:
26 = WITH EDGE GROUND CLIP
28 = WITHOUT GROUND CLIP
30 = WITH FACE GROUND CLIP
42 = WITH LARGE EDGE GROUND CLIP
44 = WITH RAISED FACE GROUND CLIP

CABLE TYPE
027 = 50Ω COAX (26 AWG CONDUCTOR)
058 = 100Ω TWINAX (26 AWG CONDUCTOR)
105 = 50Ω COAX (28 AWG CONDUCTOR)
122 = 85Ω TWINAX (24.5 AWG CONDUCTOR)
123 = 75Ω COAX (30 AWG CONDUCTOR)

LENGTH (IN INCHES)

HARNESSING
A = MULTIPLE ASS'S HARNESSED
0 = SINGLE ASS'Y ONLY



* REPAIRABLE BY CUSTOMER:
  - INDIVIDUAL POSITON
  - ENTIRE ASSEMBLY
  - UPGRADES
  - MODIFICATION
  - PROGRAMMABLE

NOTES

1. CONNECTOR MATERIAL:
   INSULATOR:
   THERMOPLASTIC, UL94V-0
   CONTACT AND SHIELD:
   COPPER ALLOY.
2. CONTACT AND SHIELD PLATING:
   100μ AVG. NICKEL UNDERPLATE
   30μ AVG. GOLD ON WIPE AREA.
3. [3] RECOMMENDED TO BE MATED TO SQUARE PIN RANGE:
   .40 TO .64 [.0159 TO .0250]
4. [4] CONNECTOR INSERTION FORCE:
   180 GMS TYPICAL (.4 LBS)
   SIGNAL TO GROUND,
   .51 [.020] PIN.
   CONNECTOR WITHDRAWL FORCE:
   115 GMS TYPICAL (.25 LBS)
   SIGNAL TO GROUND,
   .51 [.020] PIN.
5. NOTE REMOVED.
6. [6] IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
7. [7] SCI CABLE ASSEMBLIES ARE INDIVIDUALLY PLACED OR REMOVED IN EACH POSITION OF THE CARRIERS SHOWN ON THIS TECH SHEET.
8. [8] FOR DUAL COAX AND OFFSET COAX APPLICATIONS, ONLY CABLE TYPE 105 CAN BE USED.

3M™ ELECTRONIC SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
http://www.3M.com/interconnects/

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INFORMATION CALL 800-225-5373

UL FILE NO: E86892

DIMENSIONS: MM [INCHES]

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE | NEXT ASSEMBLY | DISTRIBUTION CODES

DRFT: CASTIGLIONE DATE: SEP 20,2011 | MFG | DATE
CHKD | DATE | APPVL: R. SCHERER DATE: SEP 20,2011

DIVISION: Interconnect Solutions | DIVISION CODE: ISD

DO NOT SCALE DRAWING | SCALE

TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±.01
.000 ±.005
.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS
0 ±
.0 ±.3
.00 ±.13
.000 ±

MAX SURFACE ROUGHNESS
DATA SURFACES
MARKED ONLY

ANGLES ±

3M Center, St. Paul, MN 55144

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TITLE: 2MM SCI HM 2X1, FOR TWINAX, COAX AND DUAL COAX, TS-2105

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2105-4 | REV.: D

MODEL: 98XXXX | DET. LISTS ☐ YES ☒ NO | SHT 1 OF 6

78-5100-2105-4 D
DRAWING NUMBER REVISION

3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES

2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

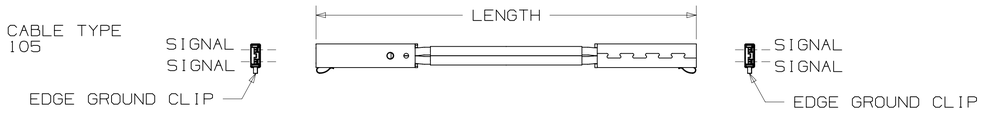
NOTES

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

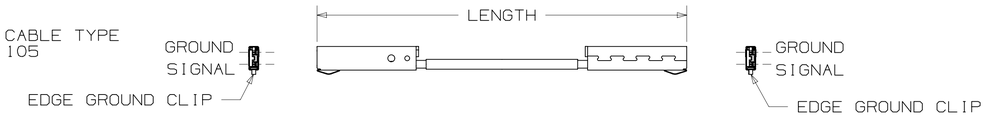
COAX CABLE ASSEMBLY W/EDGE GROUND CLIP, CONNECTOR TYPE #25



DUAL COAX CABLE ASSEMBLY W/EDGE GROUND CLIP, CONNECTOR TYPE #09

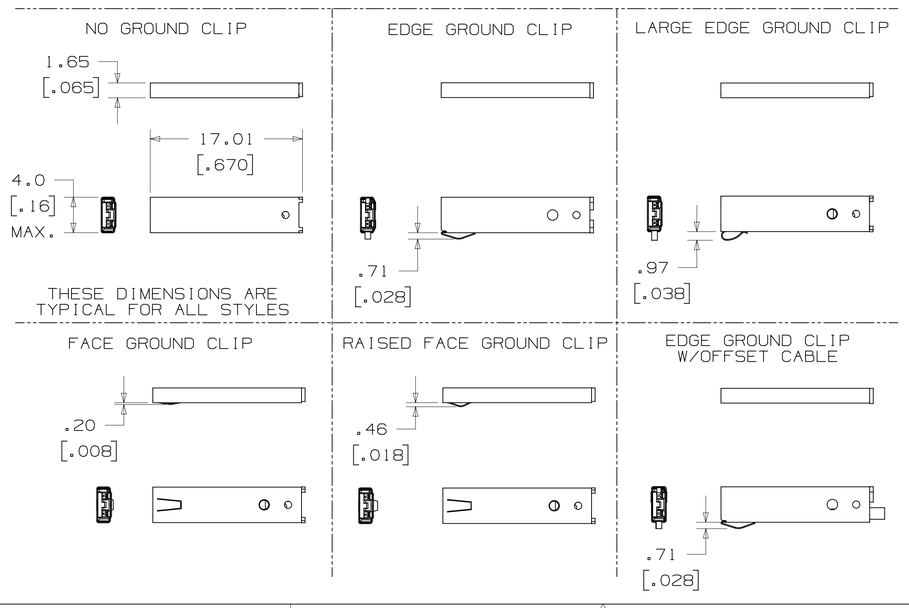


OFFSET COAX CABLE ASSEMBLY W/EDGE GROUND CLIP, CONNECTOR TYPE #32



TWINAX CABLE ASSEMBLY W/FACE GROUND CLIP, CONNECTOR TYPE #30





REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE — DATE: SEP 20,2011 — MFG — DATE

CHKD — DATE — APPVL: R. SCHERER — DATE: SEP 20,2011

DISTRIBUTION CODES

DIVISION: Interconnect Solutions — DIVISION CODE: ISD

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TOLERANCES EXCEPT AS NOTED

INCHES
.0 ±
.00 ± .01
.000 ± .005
.0000 ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS
0 ±
.0 ± .3
.00 ± .13
.000 ±

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
√ ☐ MARKED ONLY

ANGLES ±

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TITLE: 2MM SCI HM 2X1g FOR TWINAXg COAX AND DUAL COAXg TS-2105

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2105-4 | REV.: D

MODEL: 98XXXX — DET LISTS ☐ YES ☒ NO — SHT 2 OF 6

78-5100-2105-4 DRAWING NUMBER | D REVISION

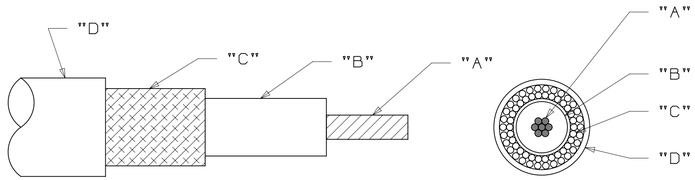
3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES

2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

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
105 COAX BLACK	50 OHM	28 AWG SILVER PLATED COPPER (19/40) .406MM [.016] OD	FOAM / FEP	SILVER PLATED COPPER WIRE SERVED SHIELD	FEP 1.55MM [.061] OD
123 COAX GRAY	75 OHM	30 AWG SILVER PLATED COPPER (7/38) .31MM [.012] OD	AIR / PTFE	SILVER PLATED BRAID	FEP 1.88MM [.074] OD

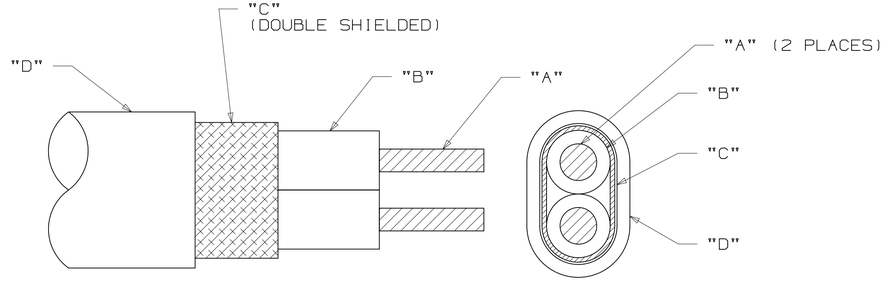
COAX ELECTRICAL PROPERTIES (TYP)				
CABLE TYPE		CAPACITANCE	PROPAGATION DELAY	ATTENUATION
027	#####	78.7 pF/m [24 pF/ft] MAX.	3.8 nS/m [1.15 nS/ft] NOM.	10m @ 650 MHz [-8.23 dB]
105	#####	87 pF/m [26.5 pF/ft] MAX.	4.2 nS/m [1.28 nS/ft] NOM.	3m @ 500 MHz [-3 dB]
123	#####	52 pF/m [16 pF/ft] NOM.	4.0 nS/m [1.22 nS/ft] NOM.	100m @ 300 MHz [-14.5 dB]



TWINAXIAL CABLE

TWINAX PHYSICAL PROPERTIES (TYP)					
CABLE TYPE		"A" CENTER CONDUCTOR	"B" DIELECTRIC MATERIAL	"C" SHIELD	"D" JACKET
058 TWINAX BROWN	100 OHM	26 AWG SILVER PLATED COPPER (1) .406MM [.016] OD	AIR / FEP	SILVER PLATED COPPER BRAID OVER ALUMINIZED MYLAR	FEP 1.68 X 2.62MM [.066 X .103] OD
122 TWINAX BURGUNDY	85 OHM	24.5 AWG SOLID SPC .483MM [.019] OD	AIR / PTFE	BRAID	FEP 1.73 X 2.67MM [.068 X .105] OD

TWINAX ELECTRICAL PROPERTIES (TYP)				
CABLE TYPE		CAPACITANCE	PROPAGATION	ATTENUATION
058	100 OHM	39.4 pF/m [12 pF/ft] MAX.	3.9 nS/m [1.18 nS/ft] NOM.	10m @ 650 MHz [-7.79 dB]
122	85 OHM	45.9 pF/m [14 pF/ft] MAX.	3.9 nS/m [1.18 nS/ft] NOM.	CONTACT 3M TECHNICAL SUPPORT



78-5100-2105-4 D
DRAWING NUMBER REVISION

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

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DIVISION Interconnect Solutions DIVISION CODE ISD

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TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INCHES
.0 :
.00 : .01
.000 : .005
.0000 :

INTERPRET PER ASME Y14.5 - 1994

MILLIMETERS
0 :
.0 : .3
.00 : .13
.000 :

MAX SURFACE ROUGHNESS
☐ ALL SURFACES
☐ MARKED ONLY

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TITLE
2MM SCI HM 2X1, FOR TWINAX, COAX AND DUAL COAX, TS-2105

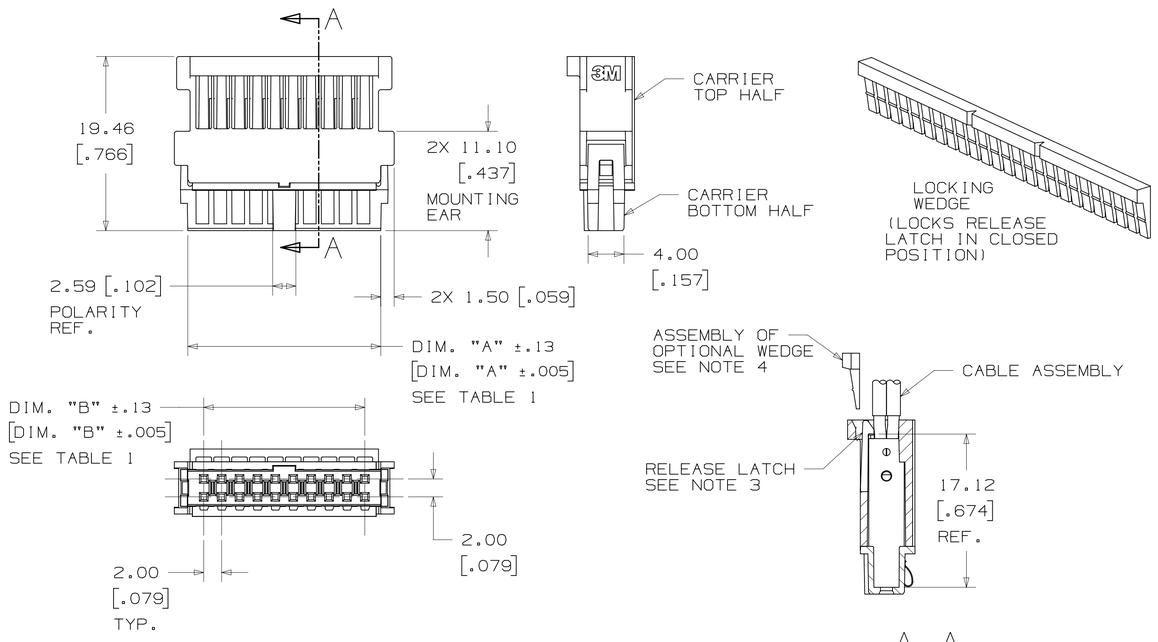
CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2105-4 | REV. D

MODEL 98XXXX DET. LIST ☐ YES ☒ NO SHT 3 OF 6

3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES

2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

2MM SCI CARRIER DIMENSIONS AND STANDARD SIZES



SECTION A-A

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

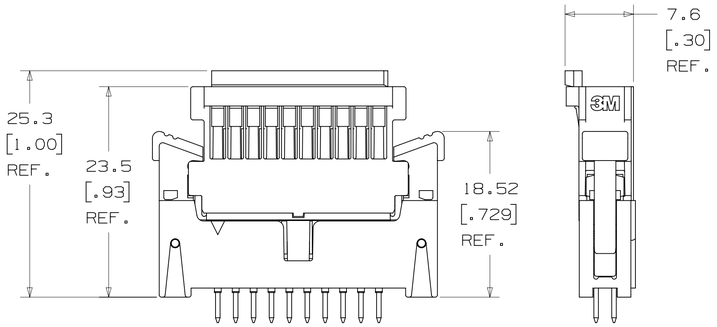
CARRIER: 93XX
└ CONTACT QTY. SEE TABLE 1

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

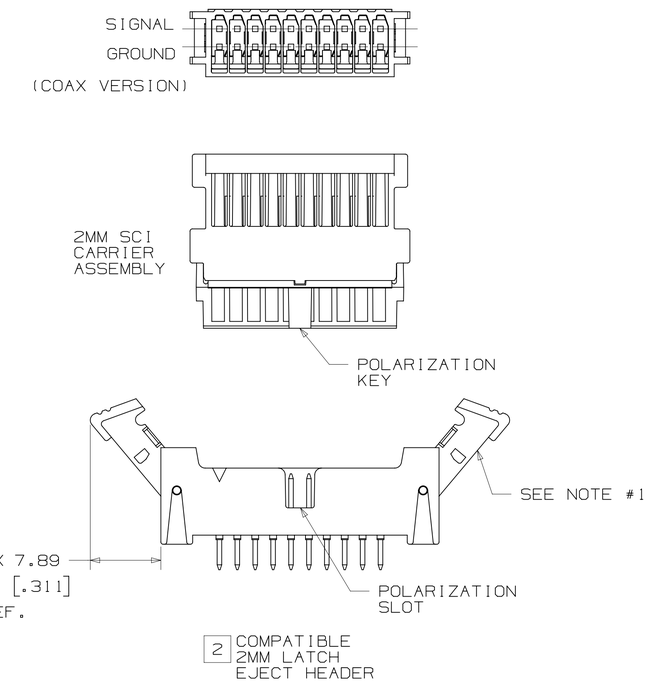
HEADER AND LATCH: 1552XX-X4XX
└ EJECTOR LATCH, SCI CARRIER

LATCH ONLY: 70-0100-3045-3

(SEE TS-2199 FOR FULL HEADER PART NUMBER)



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.

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

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TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±.01
.000 ±.005
.0000 ±
MILLIMETERS
0 ±
.0 ±.3
.00 ±.13
.000 ±
ANGLES ±

THIRD ANGLE PROJECTION
INTERPRET PER ASME Y14.5 - 1994
MAX SURFACE ROUGHNESS
ALL SURFACES
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TITLE: 2MM SCI HM 2X1, FOR TWINAX, COAX AND DUAL COAX, TS-2105

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2105-4 | REV.: D

MODEL: 98XXXX — DET. LISTS ☐ YES ☒ NO — SHT 4 OF 6

78-5100-2105-4 | D REVISION

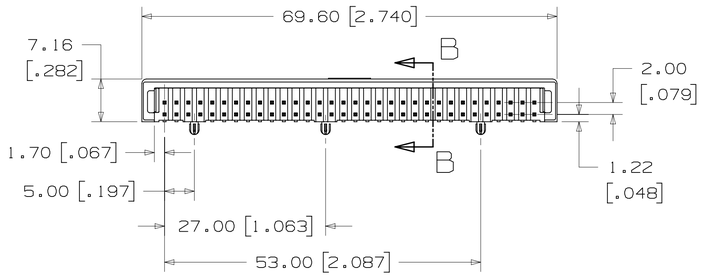
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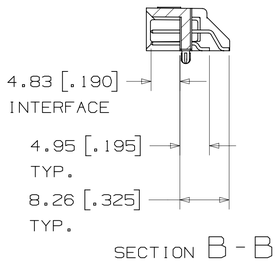
2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

2X32, 2MM SCI CARRIER AND SURFACE MOUNT (SMT) HEADER SYSTEM

2X32, 2MM SURFACE MOUNT 3 WALL HEADER

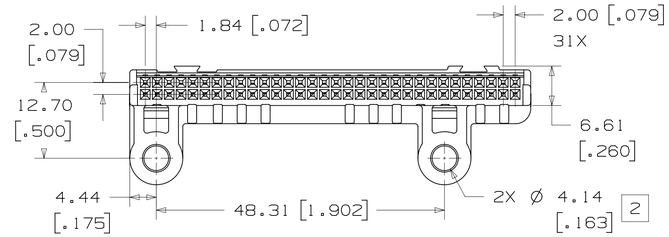
(SEE BELOW FOR PCB LAYOUT GUIDELINES)

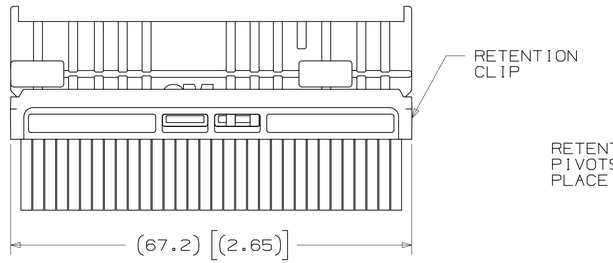


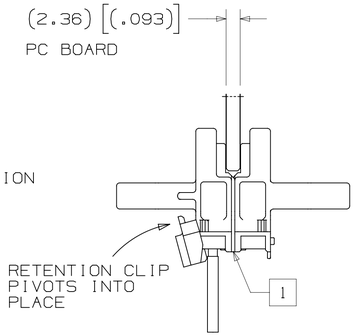


SECTION B - B

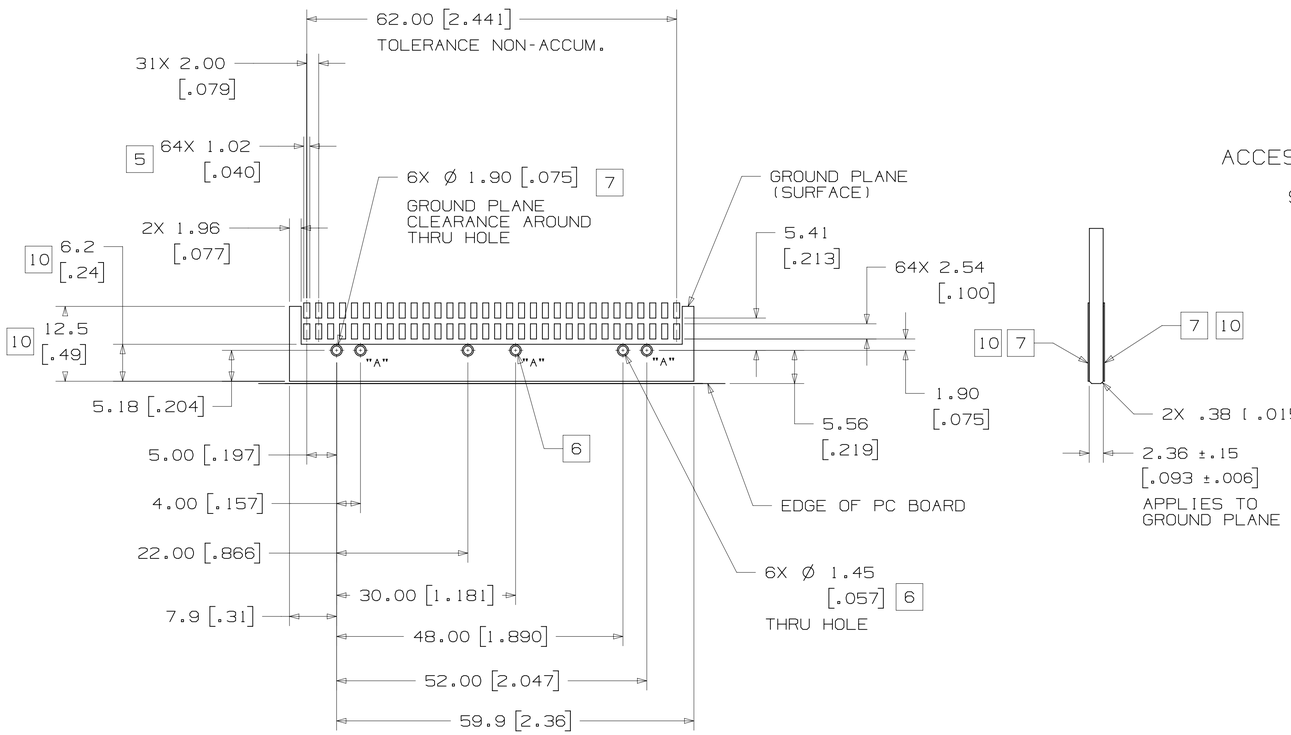
2X32, 2MM CARRIER HOUSING







PCB LAYOUT GUIDLINES



ACCESSORIES ORDERING INFORMATION

9864-2X00

- C = 2X32, 2MM RETENTION CLIP ONLY
- D = 2X32, 2MM CARRIER HOUSING WITH RETENTION CLIP
- H = 2X32, SURFACE MOUNT HEADER

NOTES

1. CARRIER DESIGNED TO LOCK TO OPTIONAL FACING CARRIER ON (2.362 [.093]) PC BOARD.
2. MOUNTING HOLE SYSTEM DESIGNED TO PANEL MOUNT WITH CUSTOMER SUPPLIED SHOULDER SCREW.
3. CARRIER POSITIONS CAN BE PARTIALLY LOADED WITH ANY SCI CABLE ASSEMBLY.
4. PC BOARD TOLERANCE IS ±.08 [.003] UNLESS OTHERWISE NOTED.
5. SOLDER PADS AND GROUND PLANE ARE TYPICAL ON TOP AND BOTTOM OF PC BOARD.
6. HOLES MARKED WITH AN "A" ARE NOT REQUIRED ON SINGLE SIDE ETCHED PC BOARD.
7. IN ORDER TO MAINTAIN THE CONNECTOR RELIABILITY, THE CUSTOMER SHOULD PLATE THE COAX/TWINAX EXTERNAL CLIP PC BOARD GROUND PLANE WITH 50μ MIN. NICKEL AND 30μ MIN. GOLD.
8. FOR LESSER PERFORMANCE, A THINNER PLATING OF GOLD MAY BE USED. CUSTOMER MUST EVALUATE AND DETERMINE PERFORMANCE NEEDS AND APPROPRIATE PLATING THICKNESS.
9. A STIFFENER MUST BE ADDED TO THE OPPOSITE SIDE OF THE BOARD FROM WHICH THE HEADER IS MOUNTED ON IN ORDER TO MAINTAIN BOARD STRAIGHTNESS FOR SINGLE SIDED APPLICATIONS.
10. START OF GROUND PLANE(S).

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

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DIVISION: Interconnect Solutions — DIVISION CODE: ISD

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THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS ☐ ALL SURFACES ☐ MARKED ONLY

INCHES: .0 ± — .00 ± .01 — .000 ± .005 — .0000 ±

MILLIMETERS: 0 ± — .0 ± .3 — .00 ± .13 — .000 ±

ANGLES ±

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TITLE: 2MM SCI HM 2X1, FOR TWINAX, COAX AND DUAL COAX, TS-2105

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2105-4 | REV.: D

MODEL: 98XXXX — DET LISTS ☐ YES ☒ NO — SHT 5 OF 6

78-5100-2105-4 (DRAWING NUMBER) D (REVISION)

3M™ SHIELDED CONTROLLED IMPEDANCE (SCI) CABLE ASSEMBLIES

2MM HARD METRIC (HM) 2X1, FOR TWIN-AX, COAX AND DUAL COAX CABLE ASSEMBLIES

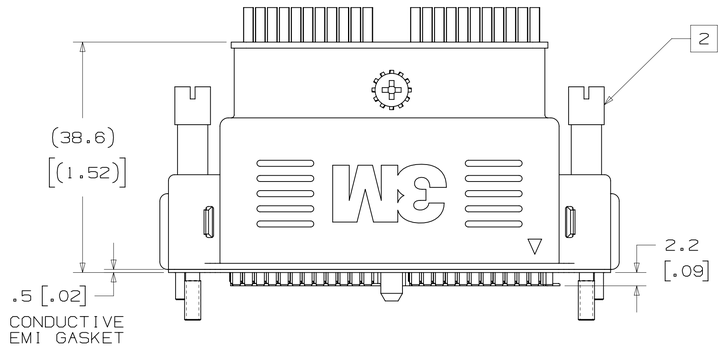
NOTES

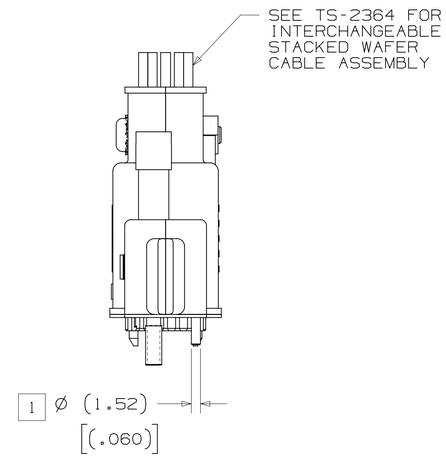
1. 2X KEYING PINS PER ASSEMBLY 6 LOCATIONS FOR KEYING.
2. 2X THUMBSCREWS, #4-40.

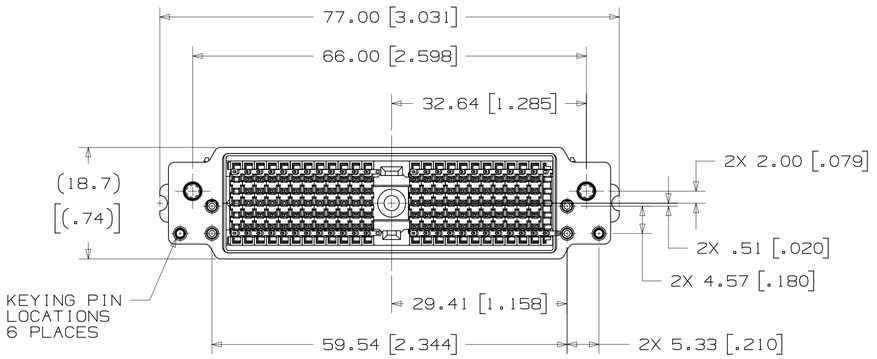
CUSTOM ASSEMBLY - HARD METRIC COMPATIBLE

HM, cPCI, HSHM & UHM STACKED WAFER HARNESS WITH SHELL, 110 POSITION

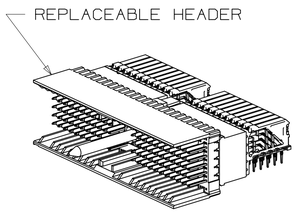
UPGRADES LEGACY HEADERS TO HIGH BANDWIDTH



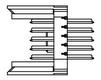




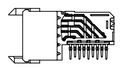
HARNESS CONFIGURATION MATES WITH 5 ROW HSHM-H110A STYLE HEADER. (SEE TS-2073)
CONTACT 3M SALES FOR OTHER CONFIGURATIONS, SPECIFICATIONS AND ORDERING INFORMATION



RIGHT ANGLE HEADER ASSEMBLY
HSHM-RAH110AG4-5CP1-TG30L



REPLACEABLE HEADER
HSHM-H110AG4-5CP5-FR
(MATES TO CUSTOM CABLE ASSEMBLY OR MATING SOCKET BELOW)



MATING SOCKET (BOARD-TO-BOARD)
HSHM-S110AG4-5AP1-TG30L
(30μ MIN. GOLD)

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING INFORMATION CALL 800-225-5373

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
D	36288	NOV 08,2011 REVISED AND REDRAWN	JNC	RS

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT: CASTIGLIONE | DATE: SEP 20,2011 | MFG | DATE
CHKD | DATE | APPVL: R. SCHERER | DATE: SEP 20,2011

DISTRIBUTION CODES

DIVISION: Interconnect Solutions | DIVISION CODE: 150

DO NOT SCALE DRAWING

TOLERANCES EXCEPT AS NOTED
INCHES
.0 ±
.00 ±.01
.000 ±.005
.0000 ±
MILLIMETERS
0 ±
.0 ±.3
.00 ±.13
.000 ±
ANGLES ±

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 1994

MAX SURFACE ROUGHNESS
ALL SURFACES
MARKED ONLY

3M Center, St. Paul, MN 55144

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TITLE: 2MM SCI HM 2X1, FOR TWINAX, COAX AND DUAL COAX, TS-2105

CAGE NUMBER | SIZE: D | DRAWING NO.: 78-5100-2105-4 | REV.: D

MODEL: 98XXXX | DET. LISTS ☐ YES ☒ NO | SHT 6 OF 6

78-5100-2105-4 (DRAWING NUMBER) D (REVISION)