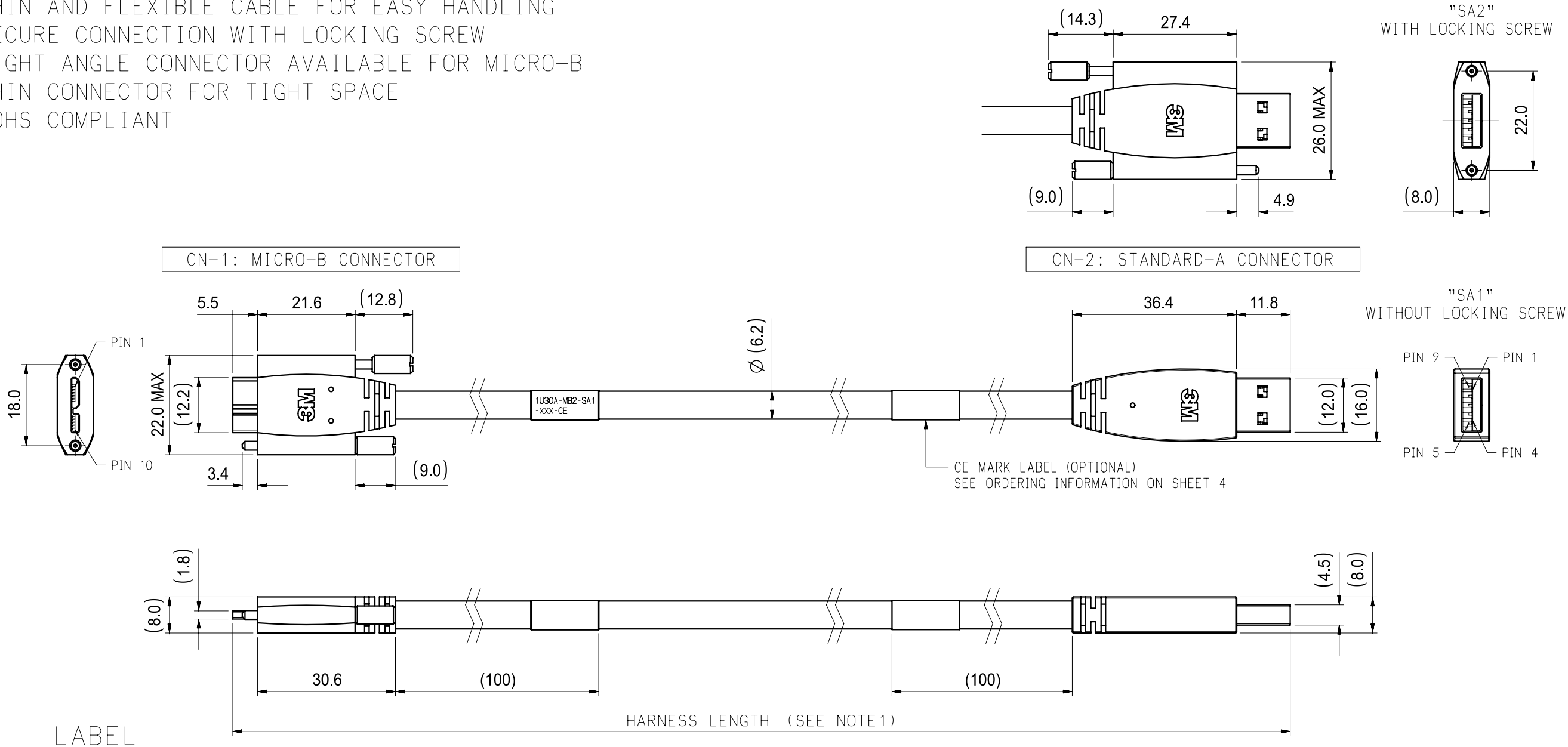


3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES

- USB3.0 SUPER SPEED DATA TRANSFER RATES UP TO 5Gbps
- HIGH TRANSMISSION CHARACTERISTICS THAT ENABLES OVER 7m TRANSMISSION
- THIN AND FLEXIBLE CABLE FOR EASY HANDLING
- SECURE CONNECTION WITH LOCKING SCREW
- RIGHT ANGLE CONNECTOR AVAILABLE FOR MICRO-B
- THIN CONNECTOR FOR TIGHT SPACE
- ROHS COMPLIANT

NOTES	
1	THE TOLERANCE OF HARNESS LENGTH IS LARGER VALUE OF EITHER +50mm/0 OR +3%/0 OF ORDER LENGTH



1U30A-MB2-SAX ← 3M PART NUMBER
-XXX-XX
YYYYYYYY ← LOT ID



TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE MAY 9,2022
INCHES .0 ± .00 .00 ± .000	CHKD S.YOKOYAMA	DATE MAY 9,2022
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	MFG	DATE
ANGLES ±5°	APPVL Y.KAWATE	DATE MAY 9,2022
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THIRD ANGLE PROJECTION		

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REV.	ECO	ISSUE DATE AND DESCRIPTION				DRFT	CHKD
		3M Center St. Paul, MN 55144		DIVISION EMSD		MODEL	
				DIVISION CODE			
TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES 1U30A-MB2X-SAX-XXX-XX							
FSCM NO.		SIZE A3	DRAWING NO. 78-5100-2772-1				REV. A
SCALE			DET LISTS ☐ YES ☐ NO			SHT 1 OF 5	

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES

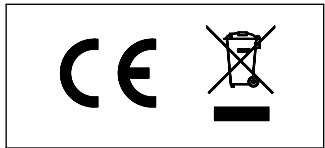
MICRO-B CONNECTOR RIGHT ANGLE TYPE (UP/DOWN)

NOTES	
1	THE TOLERANCE OF HARNESS LENGTH IS LARGER VALUE OF EITHER +50mm/0 OR +3%/0 OF ORDER LENGTH

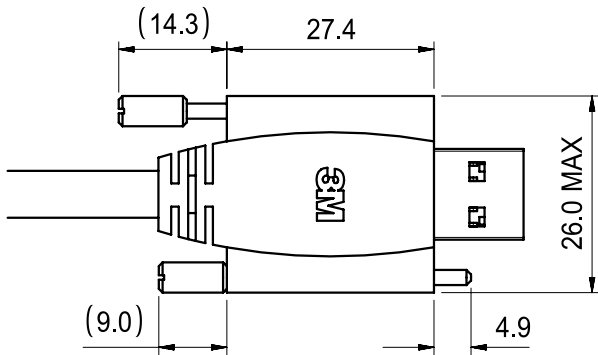
LABEL

1U30A-MB2X-SAX
-XXX-XX
YYYYYYYY

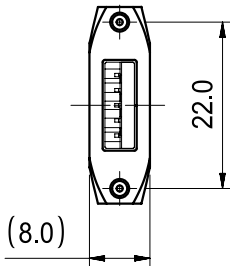
LOT ID
3M PART NUMBER



CE MARK LABEL (OPTIONAL)
SEE ORDERING INFORMATION ON SHEET 4

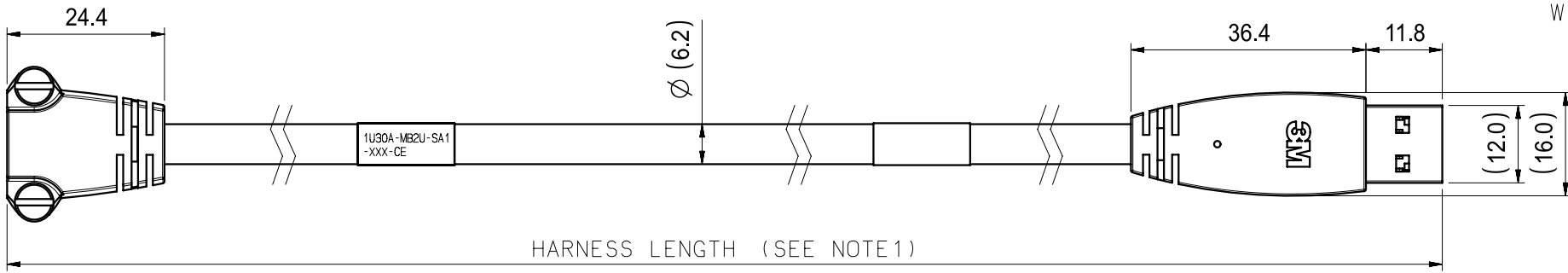
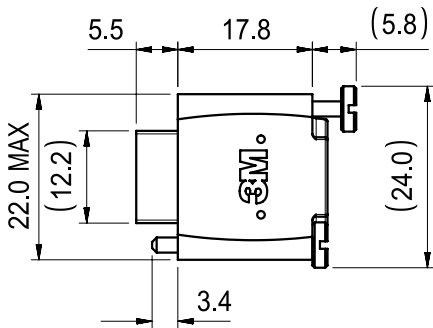


"SA2"
WITH LOCKING SCREW

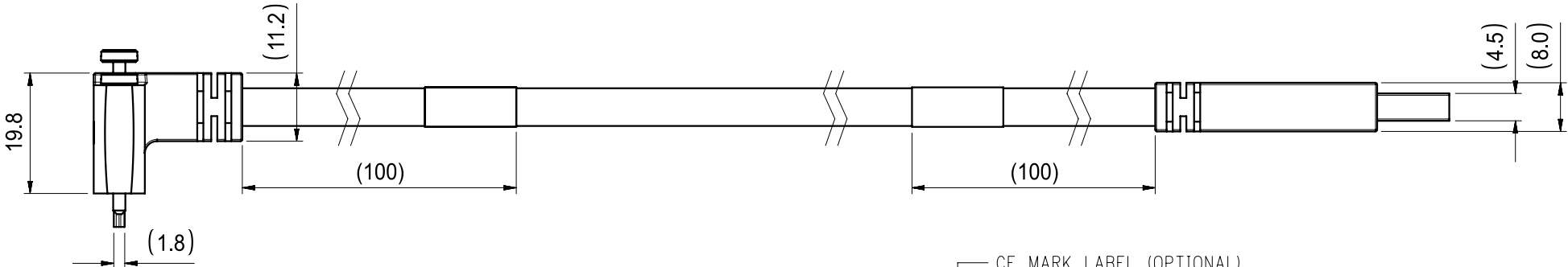
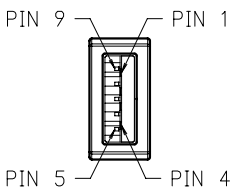


CN-1: MICRO-B CONNECTOR

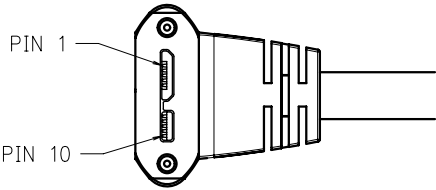
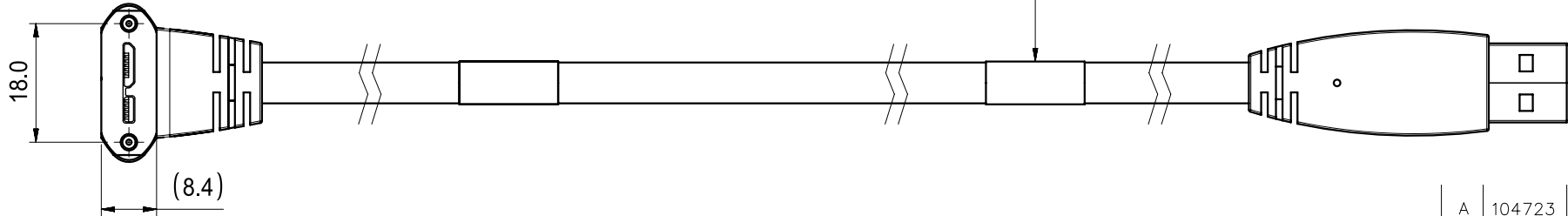
CN-2: STANDARD-A CONNECTOR



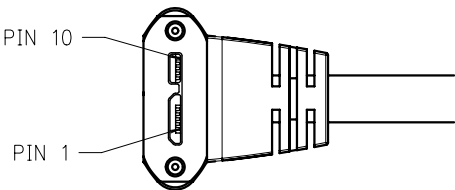
"SA1"
WITHOUT LOCKING SCREW



CE MARK LABEL (OPTIONAL)
SEE ORDERING INFORMATION ON SHEET 4



1U30A-MB2U-SAX-XXX



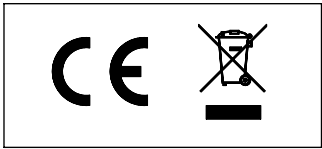
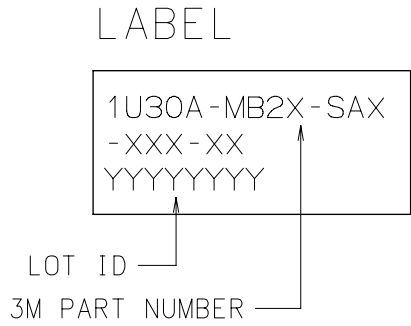
1U30A-MB2D-SAX-XXX

TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE MAY 9, 2022
	CHKD S.YOKOYAMA	DATE MAY 9, 2022
	MFG	DATE
	APPVL Y.KAWATE	DATE MAY 9, 2022
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THIRD ANGLE PROJECTION		

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REV.	ECO	ISSUE DATE AND DESCRIPTION				DRFT	CHKD
		3M Center St. Paul, MN 55144		DIVISION EMSD		MODEL	
				DIVISION CODE			
TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES 1U30A-MB2X-SAX-XXX-XX							
FSCM NO.		SIZE A3	DRAWING NO. 78-5100-2772-1				REV. A
SCALE			DET LISTS ☐ YES ☐ NO			SHT 2 OF 5	

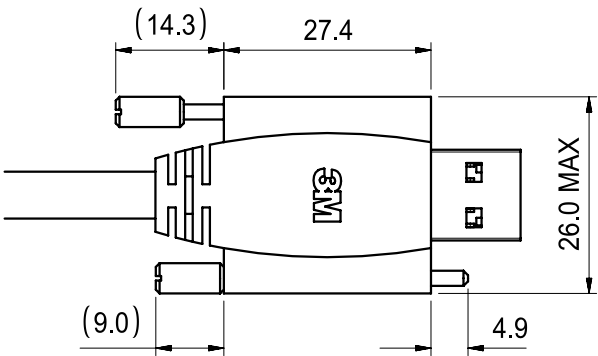
3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES

MICRO-B CONNECTOR RIGHT ANGLE TYPE (LEFT/RIGHT)

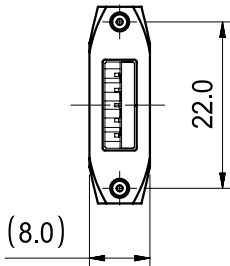


CE MARK LABEL (OPTIONAL)
SEE ORDERING INFORMATION ON SHEET 4

CN-1: MICRO-B CONNECTOR

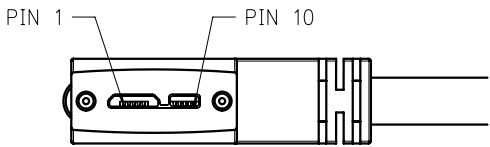
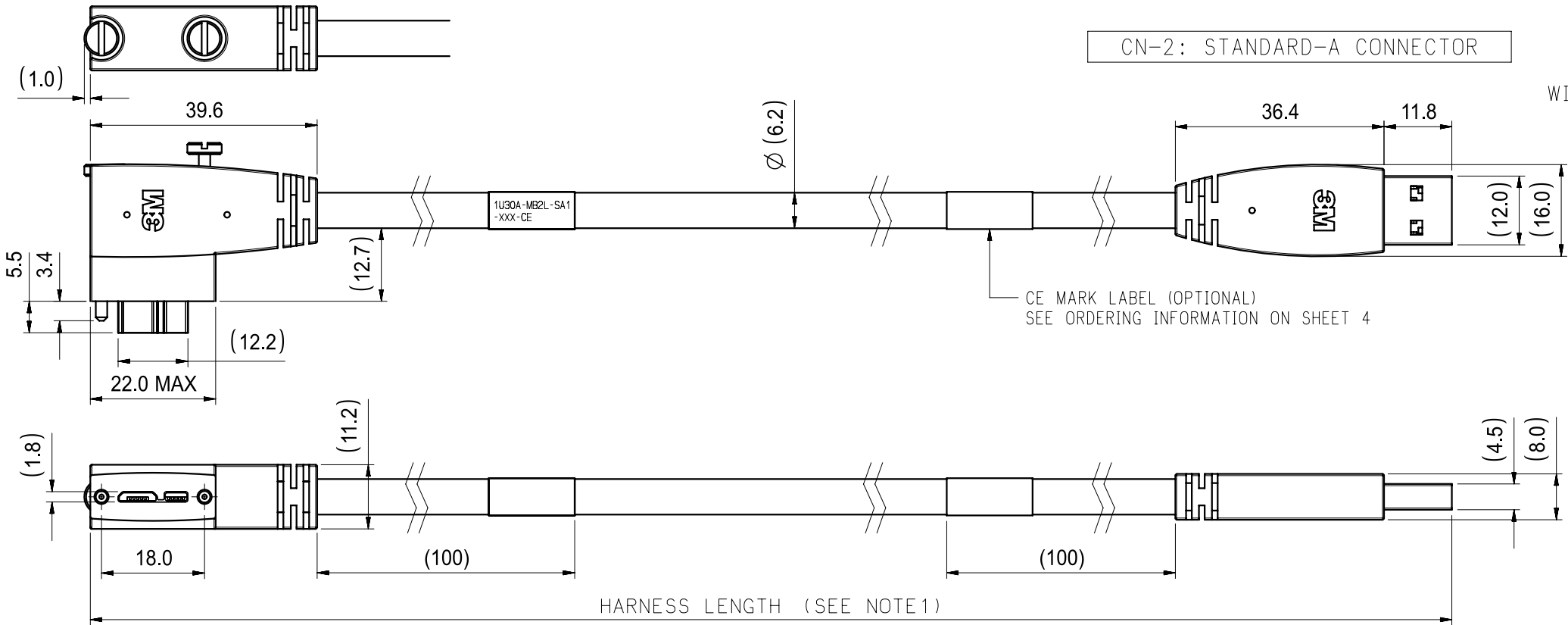
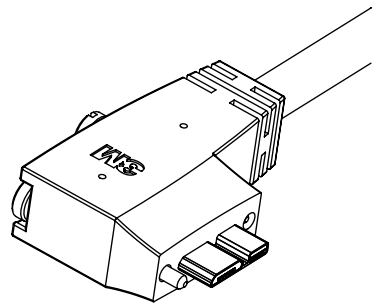
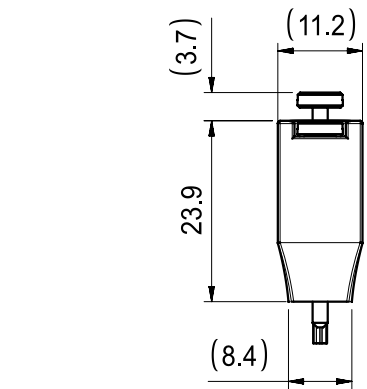
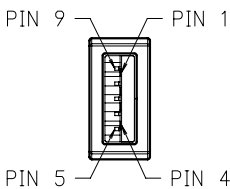


"SA2"
WITH LOCKING SCREW

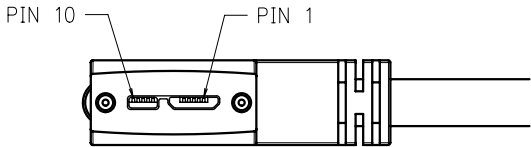


CN-2: STANDARD-A CONNECTOR

"SA1"
WITHOUT LOCKING SCREW



1U30A-MB2L-SAX-XXX



1U30A-MB2R-SAX-XXX

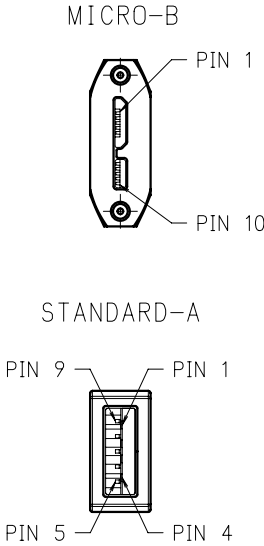
TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE MAY 9, 2022
INCHES .0 ± .5 .00 ± .20 .000 ± N/A	CHKD S.YOKOYAMA	DATE MAY 9, 2022
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	MFG	DATE
ANGLES ±5°	APPVL Y.KAWATE	DATE MAY 9, 2022
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THIRD ANGLE PROJECTION		

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				DIVISION CODE			
TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES 1U30A-MB2X-SAX-XXX-XX							
FSCM NO.		SIZE A3	DRAWING NO. 78-5100-2772-1			REV. A	
SCALE			DET LISTS ☐ YES ☐ NO			SHT 3 OF 5	

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES

PIN ASSIGNMENT

CN-1 (MICRO-B)		CABLE	CN-2 (STANDARD-A)	
1	VBUS	PWR	VBUS	1
2	D-	UTP_D-	D-	2
3	D+	UTP_D+	D+	3
4	NC	-		
5	GND	GND_PWRrt	GND	4
6	MicB_SSTX-	SDP1-	StdA_SSRX-	5
7	MicB_SSTX+	SDP1+	StdA_SSRX+	6
8	GND_Drain	Drain for SDP1,2	GND_Drain	7
9	MicB_SSRX-	SDP2-	StdA_SSTX-	8
10	MicB_SSRX+	SDP2+	StdA_SSTX+	9
SHELL		Braid shield	SHELL	



CABLE	
UL NUMBER	UL AWM Style 20276
TEMPERATURE AND VOLTAGE RATING	80° C / 30V
CURRENT RATING	1.5A(VBUS,GND), 0.2A(Others)
SHEATH MATERIAL	PVC
COLOR	BLACK
OUTER DIAMETER	6.2mm
FLAMMABILITY	VW-1

PERFORMANCE	
OPERABLE TRANSMISSION DISTANCE	>7m (10m Max*)

* DEPENDS ON USAGE CONDITIONS

ENVIRONMENTAL	
OPERATING TEMPERATURE	0 to 70° C

ORDERING INFORMATION

1U30A-MB2X-SAX-XXX-XX

CN-1 CONNECTOR: MB2 = MICRO-B WITH LOCKING SCREW

CN-2 CONNECTOR: SA1 = STANDARD-A STRAIGHT, WITHOUT LOCKING SCREW
SA2 = STANDARD-A STRAIGHT, WITH LOCKING SCREW

CONNECTOR ANGLE, CABLE EXIT DIRECTION FOR MICRO-B (SEE SHEET 2 & 3)

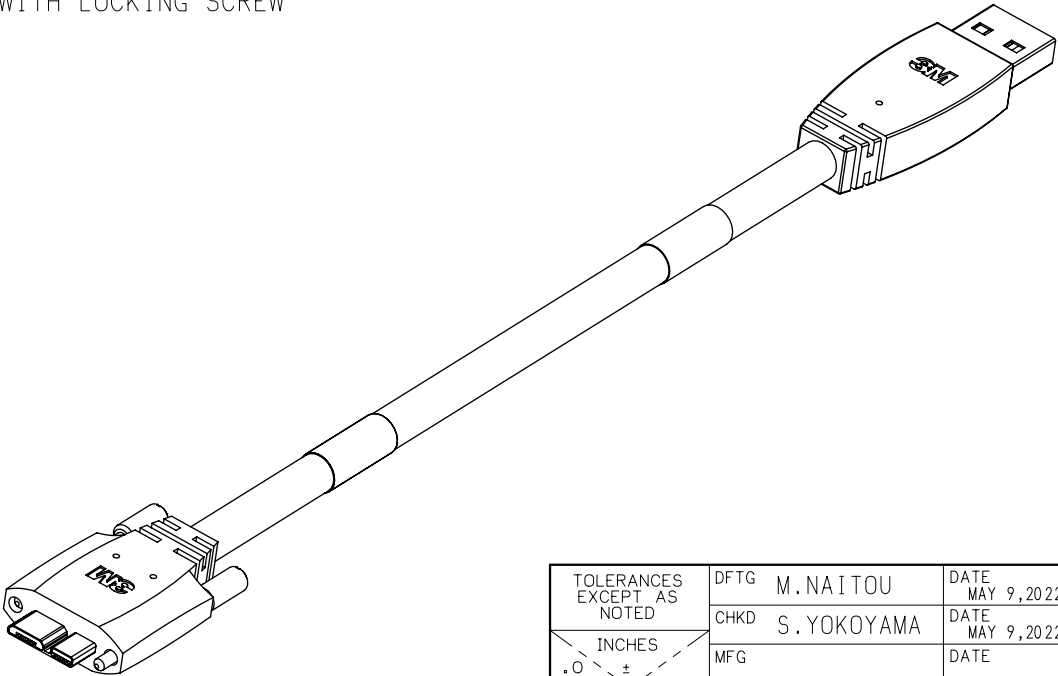
CE MARK OPTION
BLANK = NONE
CE = WITH CE MARK LABEL
(ex. 1U30A-MB2-SAx-xxx-CE)

HARNESS LENGTH (ex. 150 : 1.50m)

BLANK = STRAIGHT
U = RIGHT ANGLE, UP
D = RIGHT ANGLE, DOWN
L = RIGHT ANGLE, LEFT
R = RIGHT ANGLE, RIGHT

3M PART NUMBER	HARNESS LENGTH
1U30A-MB2X-SAX-050-XX	0.5m
1U30A-MB2X-SAX-100-XX	1m
1U30A-MB2X-SAX-150-XX	1.5m
1U30A-MB2X-SAX-200-XX	2m
1U30A-MB2X-SAX-250-XX	2.5m
1U30A-MB2X-SAX-300-XX	3m
1U30A-MB2X-SAX-350-XX	3.5m
1U30A-MB2X-SAX-400-XX	4m
1U30A-MB2X-SAX-450-XX	4.5m
1U30A-MB2X-SAX-500-XX	5m
1U30A-MB2X-SAX-600-XX	6m
1U30A-MB2X-SAX-700-XX	7m
1U30A-MB2X-SAX-800-XX	8m
1U30A-MB2X-SAX-900-XX	9m
1U30A-MB2X-SAX-A00-XX	10m

OTHER LENGTHS AVAILABLE BY SPECIAL ORDER, CONTACT 3M FOR DETAILS.



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INCHES .0 ± .005 .00 ± .000	CHKD S.YOKOYAMA	DATE MAY 9, 2022
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	MFG	DATE
ANGLES ±5°	APPVL Y.KAWATE	DATE MAY 9, 2022
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THIRD ANGLE PROJECTION		

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FSCM NO.		SIZE A3	DRAWING NO. 78-5100-2772-1				REV. A
SCALE			DET LISTS ☐ YES ☐ NO			SHT 4 OF 5	

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES

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Austin, TX 78753-5380
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A		104723	INITIAL RELEASE		MAY 20,2022		MN	SY
REV.	ECO	ISSUE DATE AND DESCRIPTION					DRFT	CHKD
TOLERANCES EXCEPT AS NOTED		DFTG	M.NAITOU		DATE	MAY 9,2022		
INCHES 0.0 ± 0.00 ± 0.000 ± MILLIMETERS 0.0 ± .5 0.00 ± .20 0.000 ± N/A		CHKD	S.YOKOYAMA		DATE	MAY 9,2022		
		MFG			DATE			
		APPVL	Y.KAWATE		DATE	MAY 9,2022		
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ANGLES ±5°				THIRD ANGLE PROJECTION				
		3M		3M Center St. Paul, MN 55144		DIVISION		EMSD
						DIVISION CODE		MODEL
		TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30A SERIES 1U30A-MB2X-SAX-XXX-XX						
		FSCM NO.	SIZE	DRAWING NO.				REV.
			A3	78-5100-2772-1				A
		SCALE		DET LISTS ☐ YES ☐ NO			SHT 5 OF 5	

Mouser Electronics

Authorized Distributor

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[1U30A-MB2-SA2-300-CE](#) [1U30A-MB2-SA2-100-CE](#) [1U30A-MB2-SA1-500-CE](#) [1U30A-MB2-SA2-500-CE](#) [1U30A-MB2-SA1-300-CE](#)