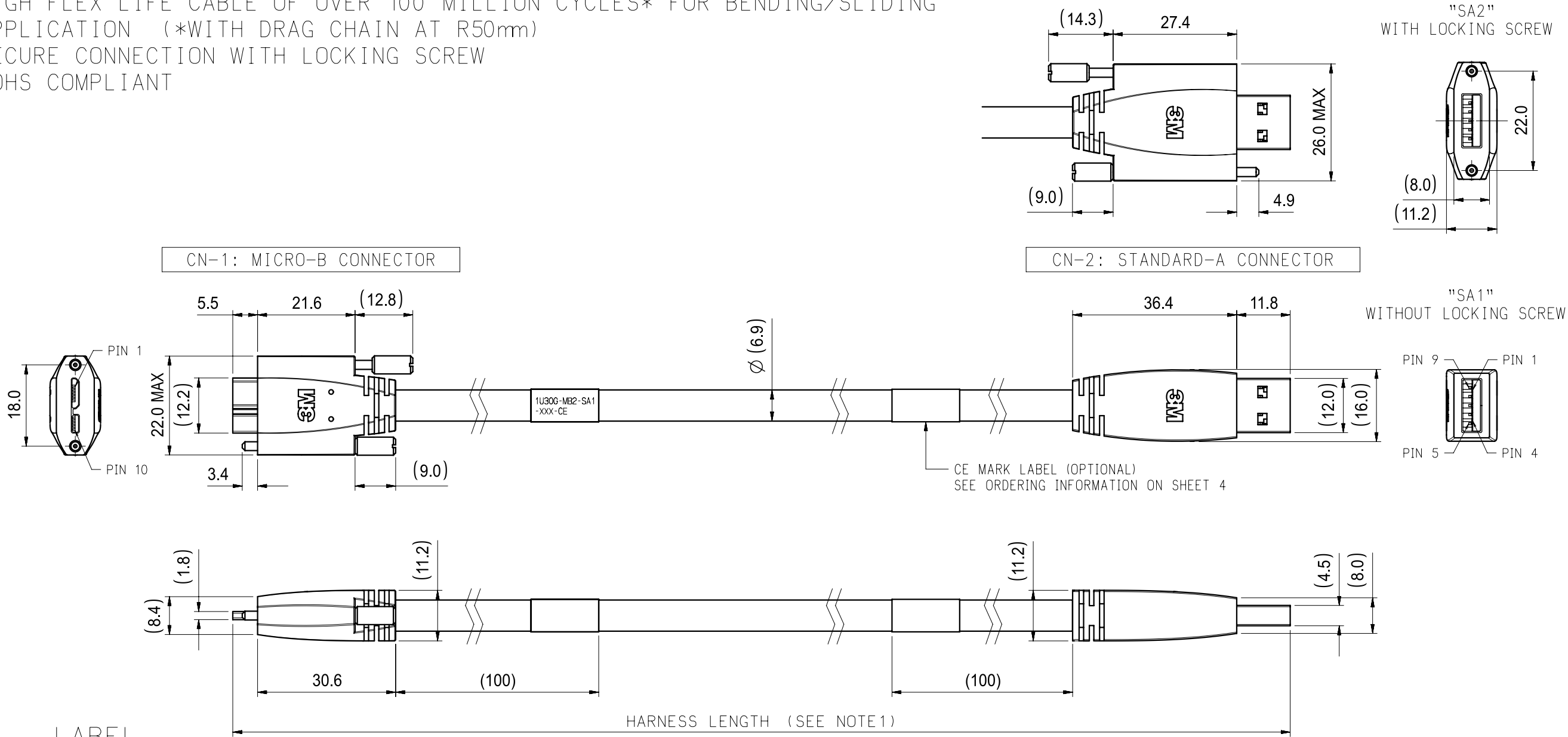


3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES

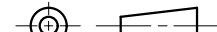
- USB3.0 SUPER SPEED DATA TRANSFER RATES UP TO 5Gbps
- HIGH TRANSMISSION CHARACTERISTICS THAT ENABLES OVER 6m TRANSMISSION
- HIGH FLEX LIFE CABLE OF OVER 100 MILLION CYCLES* FOR BENDING/SLIDING APPLICATION (*WITH DRAG CHAIN AT R50mm)
- SECURE CONNECTION WITH LOCKING SCREW
- ROHS COMPLIANT

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



1U30G-MB2-SAX ← 3M PART NUMBER
-XXX-XX
YYYYYYY ← LOT ID

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

TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE SEP.07,2023		3M Center St. Paul, MN 55144	DIVISION DEPP	MODEL
INCHES .0 ± .00 ± .000 ±	CHKD S.YOKOYAMA	DATE SEP.07,2023		DIVISION CODE		
	MFG	DATE	TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES 1U30G-MB2X-SAX-XXX-XX			
	APPVL Y.KAWATE	DATE SEP.07,2023				
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	© 3M COPYRIGHT 2021 THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.					
ANGLES ±5°	 THIRD ANGLE PROJECTION		FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2791-1	REV. B
			SCALE		DET LISTS ☐ YES ☐ NO	SHT 1 OF 5

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES

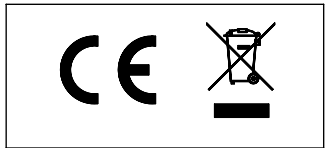
MICRO-B CONNECTOR RIGHT ANGLE TYPE (UP/DOWN)

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

LABEL

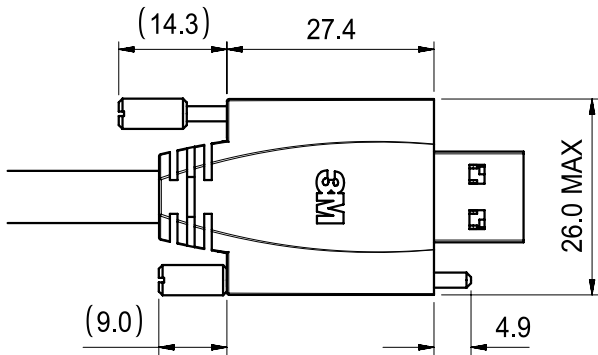
1U30G-MB2X-SAX
-XXX-XX
YYYYYYYY

LOT ID
3M PART NUMBER



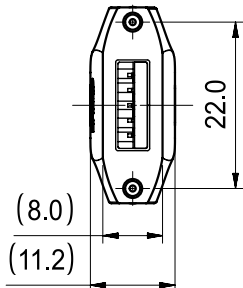
CE MARK LABEL (OPTIONAL)
SEE ORDERING INFORMATION ON SHEET 4

CN-1: MICRO-B CONNECTOR

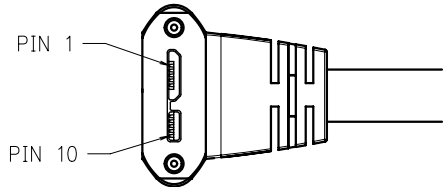
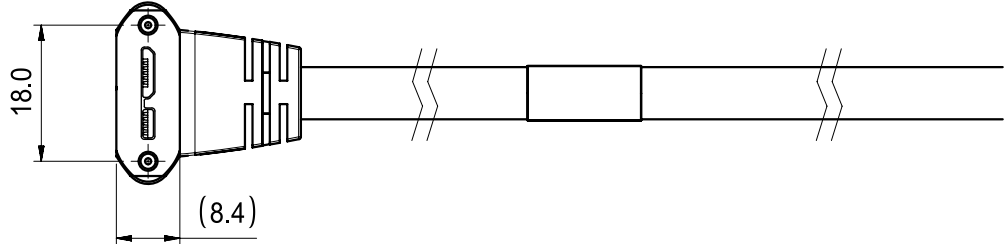
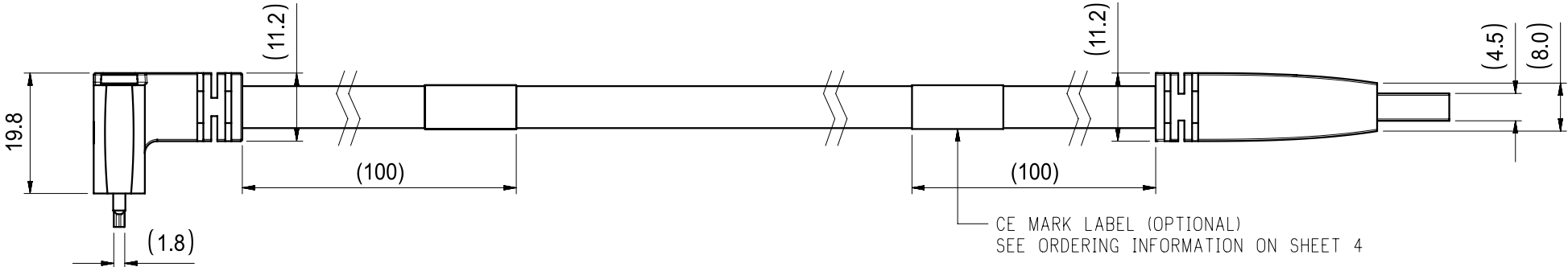
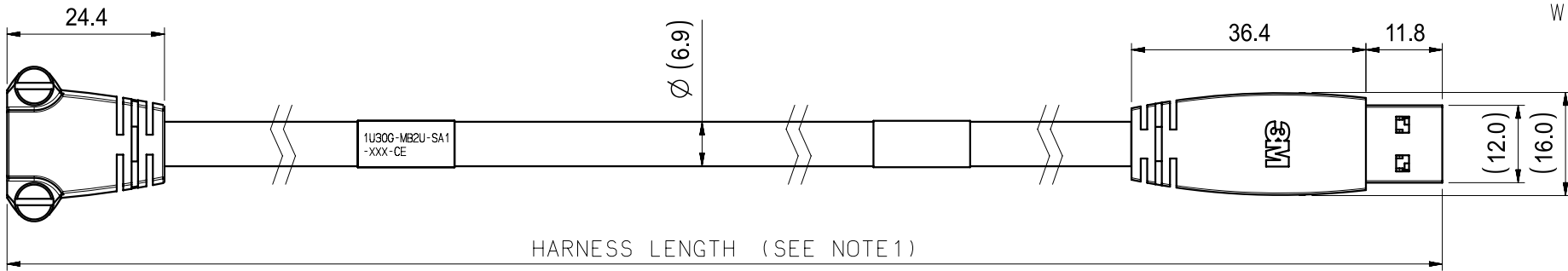
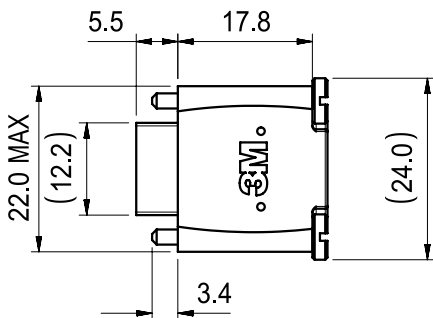
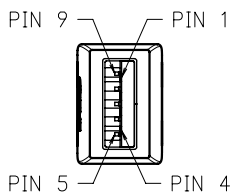


CN-2: STANDARD-A CONNECTOR

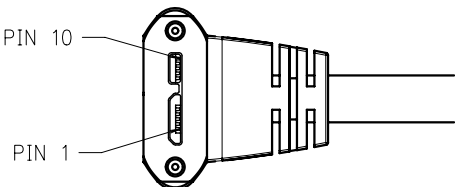
"SA2"
WITH LOCKING SCREW



"SA1"
WITHOUT LOCKING SCREW



1U30G-MB2U-SAX-XXX



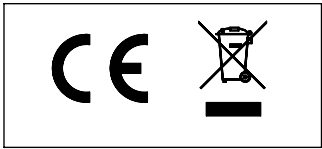
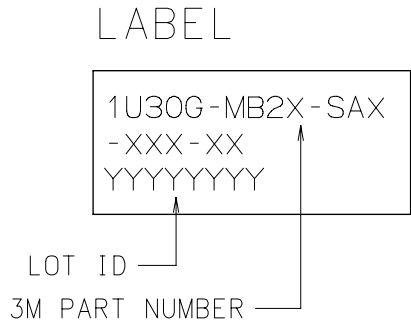
1U30G-MB2D-SAX-XXX

TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE SEP.07,2023
INCHES .0 ± .00 ± .000 ±	CHKD S.YOKOYAMA	DATE SEP.07,2023
	MFG	DATE
	APPVL Y.KAWATE	DATE SEP.07,2023
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.0 ± .5		
.00 ± .20		
.000 ± N/A		
ANGLES ±5°	 THIRD ANGLE PROJECTION	

B	127786	DEC 24,2025 REVISED FLEX DURABILITY	MN	TH
A	112063	INITIAL RELEASE	MN	SY
REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		DIVISION	DEPP	MODEL
		DIVISION CODE		
TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES 1U30G-MB2X-SAX-XXX-XX				
FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2791-1		REV. B
SCALE		DET LISTS ☐ YES ☐ NO		SHT 2 OF 5

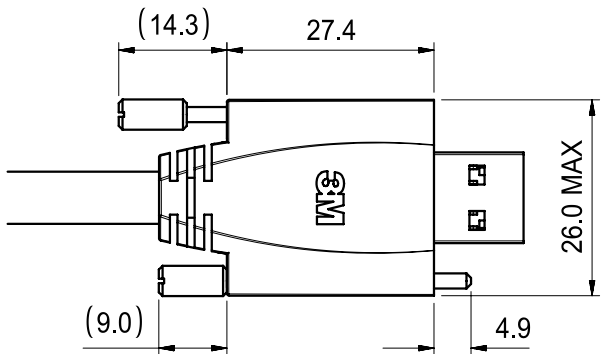
3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES

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

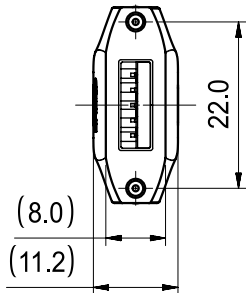


CE MARK LABEL (OPTIONAL)
SEE ORDERING INFORMATION ON SHEET 4

CN-1: MICRO-B CONNECTOR

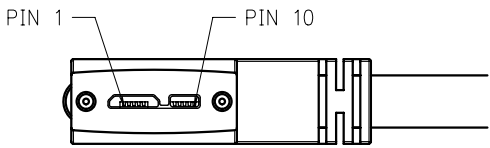
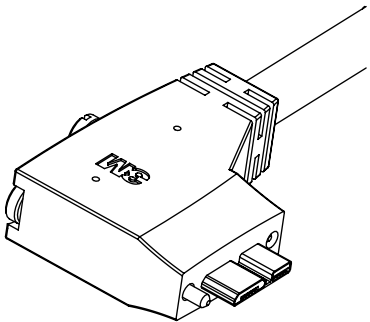
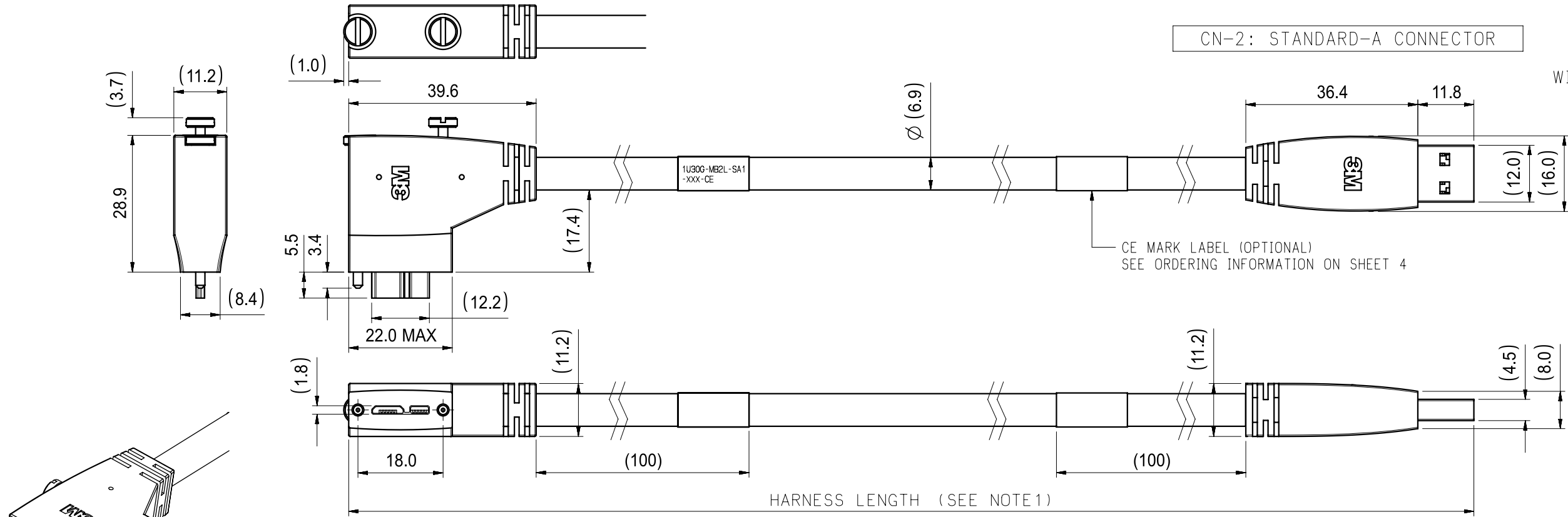
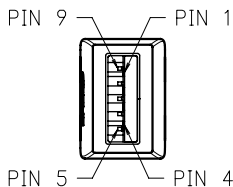


"SA2"
WITH LOCKING SCREW

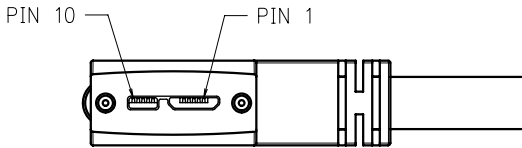


CN-2: STANDARD-A CONNECTOR

"SA1"
WITHOUT LOCKING SCREW



1U30G-MB2L-SAX-XXX



1U30G-MB2R-SAX-XXX

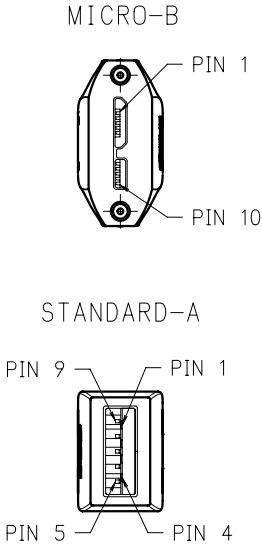
TOLERANCES EXCEPT AS NOTED	DFTG M. NAITOU	DATE SEP.07,2023
	CHKD S. YOKOYAMA	DATE SEP.07,2023
	MFG	DATE
	APPVL Y. KAWATE	DATE SEP.07,2023
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THIRD ANGLE PROJECTION		

B	127786	DEC 24,2025 REVISED FLEX DURABILITY	MN	TH
A	112063	INITIAL RELEASE	MN	SY
REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3M		3M Center St. Paul, MN 55144	DIVISION DEPP	MODEL
TITLE		USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES 1U30G-MB2X-SAX-XXX-XX		
FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2791-1	REV. B	
SCALE		DET LISTS ☐ YES ☐ NO	SHT 3 OF 5	

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G 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 21877
TEMPERATURE AND VOLTAGE RATING	105° C / 300V
CURRENT RATING	1.5A(VBUS,GND), 0.2A(Others)
SHEATH MATERIAL	PVC
COLOR	BLACK
OUTER DIAMETER	6.9mm
FLAMMABILITY	VW-1

PERFORMANCE	
OPERABLE TRANSMISSION DISTANCE	>6m (8m Max*)
FLEX DURABILITY	>100 MILLION CYCLES ** (WITH DRAG CHAIN @R50mm)

ENVIRONMENTAL	
OPERATING TEMPERATURE	0 to 70° C

* DEPENDS ON USAGE CONDITIONS
** RESULT UNDER 3M TEST CONDITIONS

ORDERING INFORMATION

1U30G-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

CE MARK OPTION
BLANK = NONE
CE = WITH CE MARK LABEL
(ex. 1U30G-MB2x-SAx-xxx-CE)

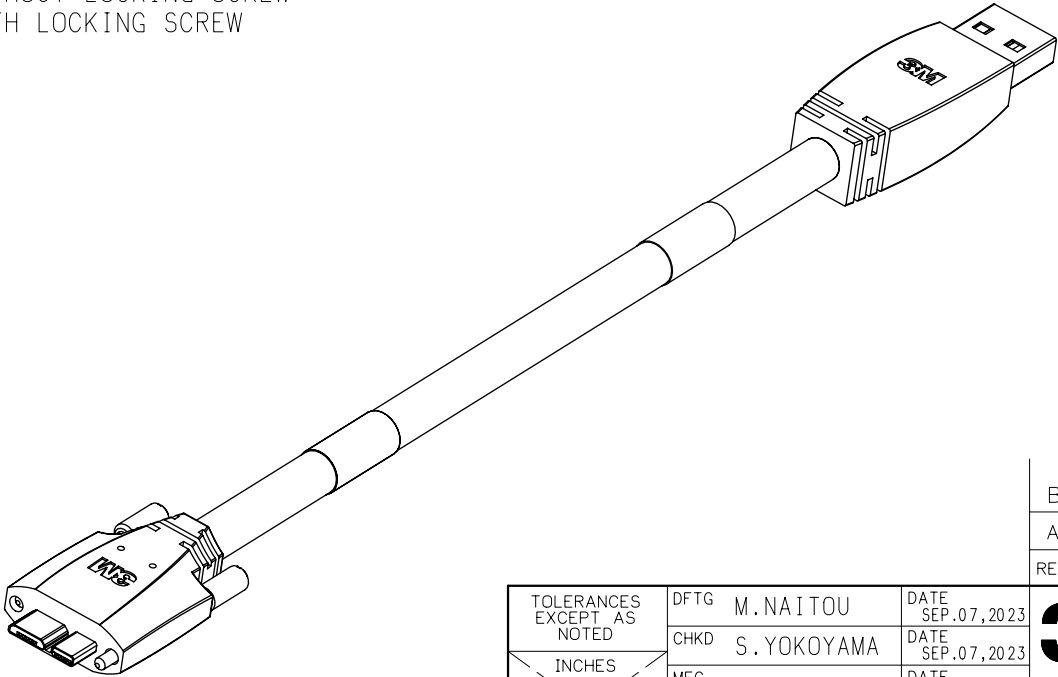
HARNESS LENGTH (ex. 150:1.50m)

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

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

3M PART NUMBER	HARNESS LENGTH
1U30G-MB2X-SAX-050-XX	0.5m
1U30G-MB2X-SAX-100-XX	1m
1U30G-MB2X-SAX-150-XX	1.5m
1U30G-MB2X-SAX-200-XX	2m
1U30G-MB2X-SAX-250-XX	2.5m
1U30G-MB2X-SAX-300-XX	3m
1U30G-MB2X-SAX-350-XX	3.5m
1U30G-MB2X-SAX-400-XX	4m
1U30G-MB2X-SAX-450-XX	4.5m
1U30G-MB2X-SAX-500-XX	5m
1U30G-MB2X-SAX-600-XX	6m
1U30G-MB2X-SAX-700-XX	7m
1U30G-MB2X-SAX-800-XX	8m

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



TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE SEP.07,2023	REV. ECO	127786	DEC 24,2025	REVISED FLEX DURABILITY	MN	TH
INCHES .0 ± .5 .00 ± .20 .000 ± N/A	CHKD S.YOKOYAMA	DATE SEP.07,2023	A	112063	INITIAL RELEASE		MN	SY
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	MFG	DATE	REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
ANGLES ±5°	APPVL Y.KAWATE	DATE SEP.07,2023	3M	3M Center St. Paul, MN 55144	DIVISION DEPP	MODEL		
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TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES 1U30G-MB2X-SAX-XXX-XX								
FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2791-1	REV. B					
SCALE			DET LISTS ☐ YES ☐ NO			SHT 4 OF 5		

DRAWING NO. 78-5100-2791-1 B

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES

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St Paul, MN 55144
1-800-251-8634

B	127786	DEC 24,2025 REVISED FLEX DURABILITY	MN	TH
A	112063	INITIAL RELEASE	MN	SY
REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		DIVISION	DEPP	MODEL
		DIVISION CODE		
TITLE				
USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30G SERIES 1U30G-MB2X-SAX-XXX-XX				
FSCM NO.	SIZE	DRAWING NO.		REV.
	A3	78-5100-2791-1		B
SCALE		DET LISTS ☐ YES ☐ NO		SHT 5 OF 5

TOLERANCES EXCEPT AS NOTED	DFTG M.NAITOU	DATE SEP.07,2023
INCHES	CHKD S.YOKOYAMA	DATE SEP.07,2023
.0 ± .5	MFG	DATE
.00 ± .20	APPVL Y.KAWATE	DATE SEP.07,2023
.000 ± N/A	© 3M COPYRIGHT 2021 THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M.	
ANGLES ±5°	THIRD ANGLE PROJECTION	



3M Center
St. Paul,
MN 55144

DIVISION DEPP
DIVISION CODE

FSCM NO.

SIZE A3

DRAWING NO. 78-5100-2791-1

REV. B

SCALE

DET LISTS ☐ YES ☐ NO

SHT 5 OF 5