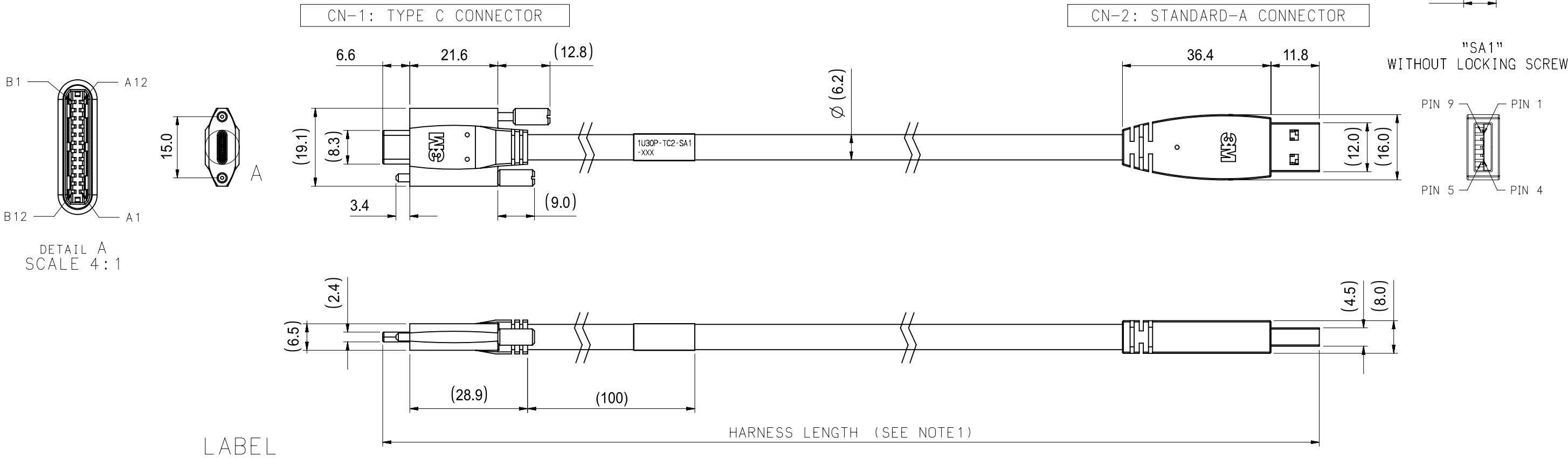


3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30P-TC SERIES

- USB SUPER SPEED DATA TRANSFER RATES UP TO 10Gbps
- HIGH TRANSMISSION CHARACTERISTICS THAT ENABLES UP TO 5m TRANSMISSION LENGTH (SEE NOTE2)
- THIN AND FLEXIBLE CABLE FOR EASY HANDLING
- SECURE CONNECTION WITH LOCKING SCREW
- 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
2	ASSUMED TO USE SIGNAL CONDITIONING CIRCUIT.AVAILABLE LENGTH DEPENDS ON THE COMBINATION OF HOST AND DEVICE.



1U30P-TC2-SAX ← 3M PART NUMBER
-XXX-XX
YYYYYYYY ← LOT ID

B	128776	CHANGED NOTE2 COMMENT JAN 20,2025	SY	TH
A	125149	INITIAL RELEASE AUG 04,2025	SY	TH
REV.	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD

TOLERANCES EXCEPT AS NOTED	DFTG S.YOKOYAMA	DATE AUG 04, 2025		3M Center St. Paul, MN 55144	DIVISION DEPP	MODEL	
	CHKD T.HAYAUCHI	DATE AUG 04, 2025		DIVISION CODE			
INCHES .0 ± .00 ± .000 ±	MFG	DATE	TITLE USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30P-TC SERIES 1U30P-TC2-SAX-XXX				
MILLIMETERS .0 ± .5 .00 ± .20 .000 ± N/A	APPVL Y.KAWATE	DATE AUG 04, 2025					
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 THIRD ANGLE PROJECTION							
ANGLES ±5°				FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2838-0	REV. B
				SCALE		DET LISTS ☐ YES ☐ NO	SHT 1 OF 3

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30P-TC SERIES

PIN ASSIGNMENT

CN-1 Pos.		Cable	CN-2 Pos.	
		Name		
SHELL	GND**	Braid Shield	SHELL	
A1		GND_PWRrt	GND	4
A12				
B1		STP Drain	GND_Drain	7
B12				
A4	VBUS**	PWR	VBUS	1
A9				
B4				
B9				
A5	*SEE BELOW			
A6	D+	UTP	D+	3
A7	D-		D-	2
A2	TypeC_SSTX+	STP 1	StdA_SSRX+	6
A3	TypeC_SSTX-		StdA_SSRX-	5
B10	TypeC_SSRX-	STP 2	StdA_SSTX-	8
B11	TypeC_SSRX+		StdA_SSTX+	9

*A5 and Vbus are connected with a resistor ; 56kohm
**Vbus and GND are connected with a capaitor; 10nF

ORDERING INFORMATION

1U30P-TC2-SAX-XXX

CN-1 CONNECTOR:
TC2 = TYPE C WITH
LOCKING SCREW

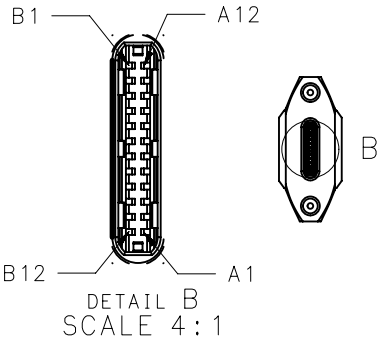
HARNESS LENGTH (ex.150:1.50m)

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

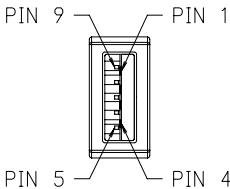
3M PART NUMBER	HARNESS LENGTH
1U30P-TC2-SAX-0.50	0.5m
1U30P-TC2-SAX-100	1m
1U30P-TC2-SAX-150	1.5m
1U30P-TC2-SAX-200	2m
1U30P-TC2-SAX-250	2.5m
1U30P-TC2-SAX-300	3m
1U30P-TC2-SAX-350	3.5m
1U30P-TC2-SAX-400	4m
1U30P-TC2-SAX-450	4.5m
1U30P-TC2-SAX-500	5m

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

Type C



STANDARD-A

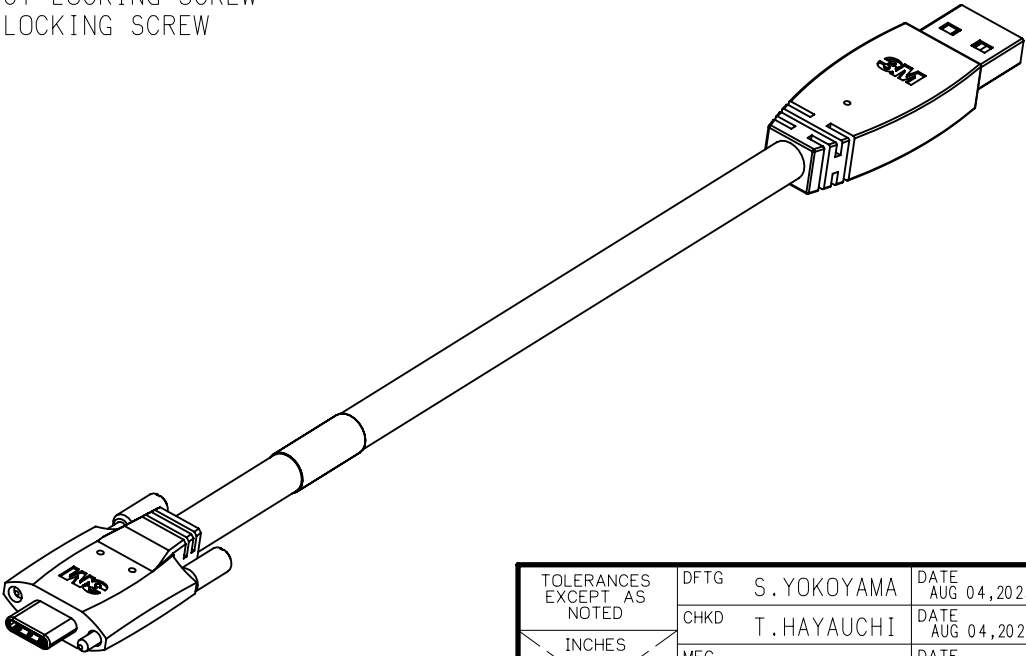


CABLE	
UL NUMBER	UL AWM Style 20276
TEMPERATURE AND VOLTAGE RATING	80° C / 30V
CURRENT RATING	3.0A(VBUS,GND), 0.2A(Others)
SHEATH MATERIAL	PVC
COLOR	BLACK
OUTER DIAMETER	6.2mm
FLAMMABILITY	VW-1

PERFORMANCE	
OPERABLE TRANSMISSION DISTANCE	0.5m to 5m

(SEE NOTE2)

ENVIRONMENTAL	
OPERATING TEMPERATURE	0 to 70° C



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FSCM NO.	SIZE A3	DRAWING NO. 78-5100-2838-0	REV. B	
SCALE		DET LISTS ☐ YES ☐ NO	SHT 2 OF 3	

TOLERANCES EXCEPT AS NOTED	DFTG S.YOKOYAMA	DATE AUG 04,2025
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THIRD ANGLE PROJECTION		

3M™ USB3 VISION INDUSTRIAL CAMERA CABLE ASSEMBLY, 1U30P-TC SERIES

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INCHES
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.00 ± .20
.000 ± N/A
MILLIMETERS
.0 ± .5
.00 ± .20
.000 ± N/A
ANGLES ±5°

DRAWING NO.
78-5100-2838-0
REV. B