

3M™ ROUND, JACKETED, FLAT CABLE, 3896 SERIES

.025: PITCH 30 AWG STRANDED, MASS-TERM, PVC/PVC

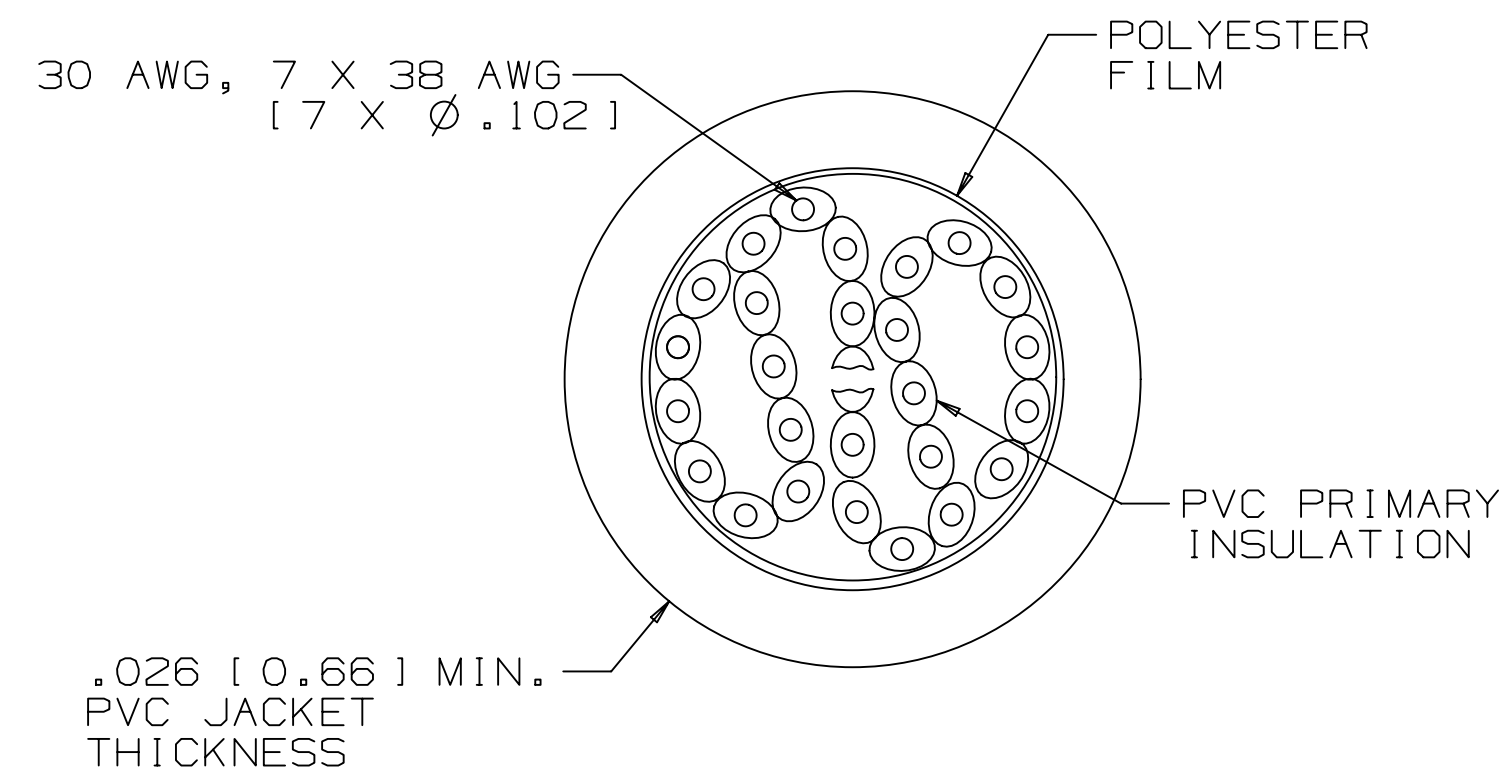
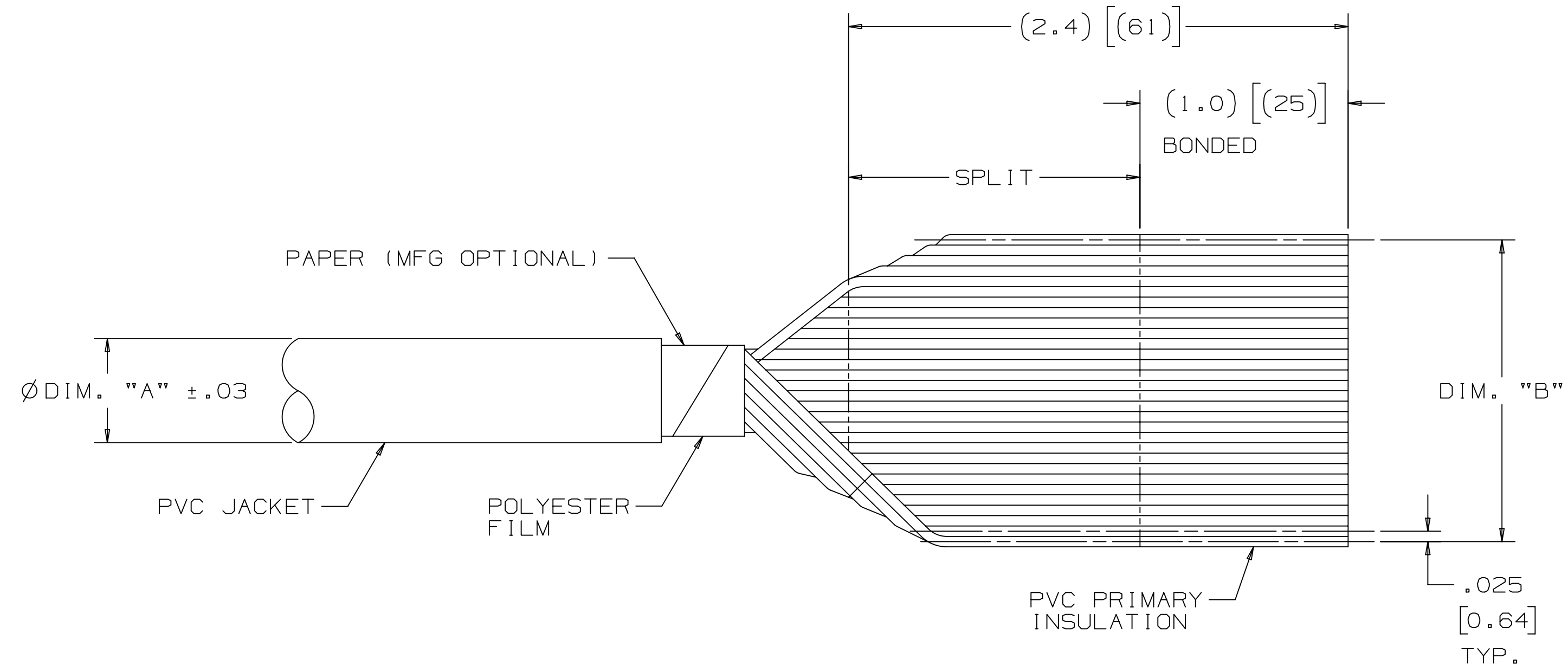


TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIMENSION "B" SEE NOTE 4
20	3896/20	.26 [6.6]	.475±.004 [12.70]
26	3896/26	.27 [6.9]	.625±.004 [15.88]
30	3896/30	.27 [6.9]	.725±.006 [18.42]
32	3896/32	.27 [6.9]	.775±.006 [19.69]
34	3896/34	.27 [6.9]	.825±.006 [20.96]
36	3896/36	.27 [6.9]	.875±.006 [22.23]
40	3896/40	.30 [7.6]	.975±.006 [24.77]
50	3896/50	.33 [8.4]	1.225±.006 [31.12]
52	3896/52	.33 [8.4]	1.275±.009 [32.39]
60	3896/60	.37 [9.4]	1.475±.009 [37.47]
68	3896/68	.37 [9.4]	1.675±.009 [42.55]
80	3896/80	.39 [9.9]	1.975±.011 [50.17]
100	3896/100	.44 [11.2]	2.475±.025 [62.87]

ORDERING INFORMATION

3896/XX XX XX

NUMBER OF CONDUCTORS
(SEE TABLE 1)

- BLANK = STANDARD
SF = SPLICE FREE

BLANK = STANDARD, REPEATING SPLIT/BONDED WIRES
SO = CONTINUOUSLY BONDED WIRE (NO SPLIT)

NOTE:
AVAILABLE IN STANDARD 275FT ROLLS. CONTACT 3M
FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS
AND/OR CUSTOM ROLL LENGTHS.

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

- * ROUND CONSTRUCTION PERMITS EASIER ROUTING.
- * 30 AWG WIRE ON .025 INCH CENTERS PERMITS MASS TERMINATION.
- * CONTINUOUS SPLIT/BOND ALLOWS FOR MASS TERMINATION ON 2.4 INCH CENTERS (APPROXIMATE).
- * CLOSE SPACING PERMITS HIGHER SIGNAL DENSITY.
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATIONS.
- * PVC INSULATION PROVIDES EXCELLENT FLEXIBILITY.
- * RECOMMENDED FOR USE WITH 3M™ TRIPOLARIZED WIREMOUNT SOCKET 82XXX-600X, .050" X .100" AND 3M™ PAK 50 IDC SOCKETS P25E-XXXS-XXX.

2 PHYSICAL :

JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
JACKET COLOR: BLACK
PRIMARY MATERIAL: POLYVINYL CHLORIDE (PVC)
COLOR: GRAY
MARKING STANDARD: ULAWM 20596 105C 30V VW1 3M NU
INNER WRAP: POLYESTER FILM

2 ELECTRICAL :

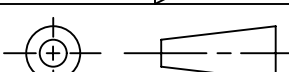
VOLTAGE RATING	USA: 30V	EU: < 50V
INSULATION RESISTANCE	PRIMARY CABLE >1 X 10 ¹⁰ Ω/10ft [3m]	
	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE	73Ω	121Ω
CAPACITANCE	20.8 pF/ft [68.2 pF/m]	12.0 pF/ft [39.4 pF/m]
INDUCTANCE	.11μH/ft [0.36μH/m]	.18μH/ft [0.57μH/m]
PROPAGATION DELAY	1.51 ns/ft [4.95 ns/m]	1.45 ns/ft [4.76 ns/m]
VELOCITY OF PROPAGATION	67%	70%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.
BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR.

2 ENVIRONMENTAL :

TEMPERATURE RATING: -20° C TO +105° C
FLAMMABILITY RATING: VW-1

DIMENSIONS: INCHES [MM]
[MM] IS FOR REF. ONLY

DIMENSIONS: INCHES [MM]				E 109188		MAR 03, 2023		JNC FJR	
1) IS FOR REF. ONLY				REVISED AND REDRAWN					
DESIGN REFERENCE		NEXT ASSEMBLY		REV ECO		ISSUE DATE AND DESCRIPTION		DRFT CHKD	
ADDRESS CODES				DRFT CASTIGLIONE		DATE 03, 2023		MFO DATE	
				CHKD		DATE		DATE MAR 03, 2023	
DIVISION		DIVISION CODE		APPR. F. RODRIGUEZ					
		EMSD		© 3M COPYRIGHT 2023					
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED				This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission or be used or disclosed other than for 3M authorized purposes. All rights reserved.			
		INCHES .00 ± .1 .00 ± .05 .000 ± .010 .0000 ± .0005		TITLE		ROUND, JACKETED, FLAT CABLE, .025" PITCH, 30AWG, STRANDED, 3896			
THIRD ANGLE PROJECTION		MILLIMETERS		.00 ± .00 ± .000 ±					
INTERPRET PER ASME Y14.5 - 2018				CASE NUMBER		SIZE		DRAWING NO.	
MAX SURFACE ROUGHNESS				☒ D		78-5100-2173-2		REV.	
☐ ALL SURFACES ☒ MARKED ONLY				MODEL		3896		DEF. LISTS ☐ YES ☒ NO SHT 1 OF 2	
		ANGLES ±							

UL FILE NO: E42769,
STYLE NO: 20596

NOTES	
1.	REGULATORY INFORMATION: VISIT 3M.com/regs
2.	IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENCE.
3.	RED MARKING ON EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
4.	DIMENSION B REFERS TO BONDED AREA ONLY.

78-5100-2173-2	E
DRAWING NUMBER	REVISION

3 A

DET. LISTS	☐ YES ☒ NO	SHT 1 OF 2
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