

3M™ ROUND, JACKETED, FLAT CABLE, 3896 SERIES
.025: PITCH 30 AWG STRANDED, MASS-TERM, PVC/PVC

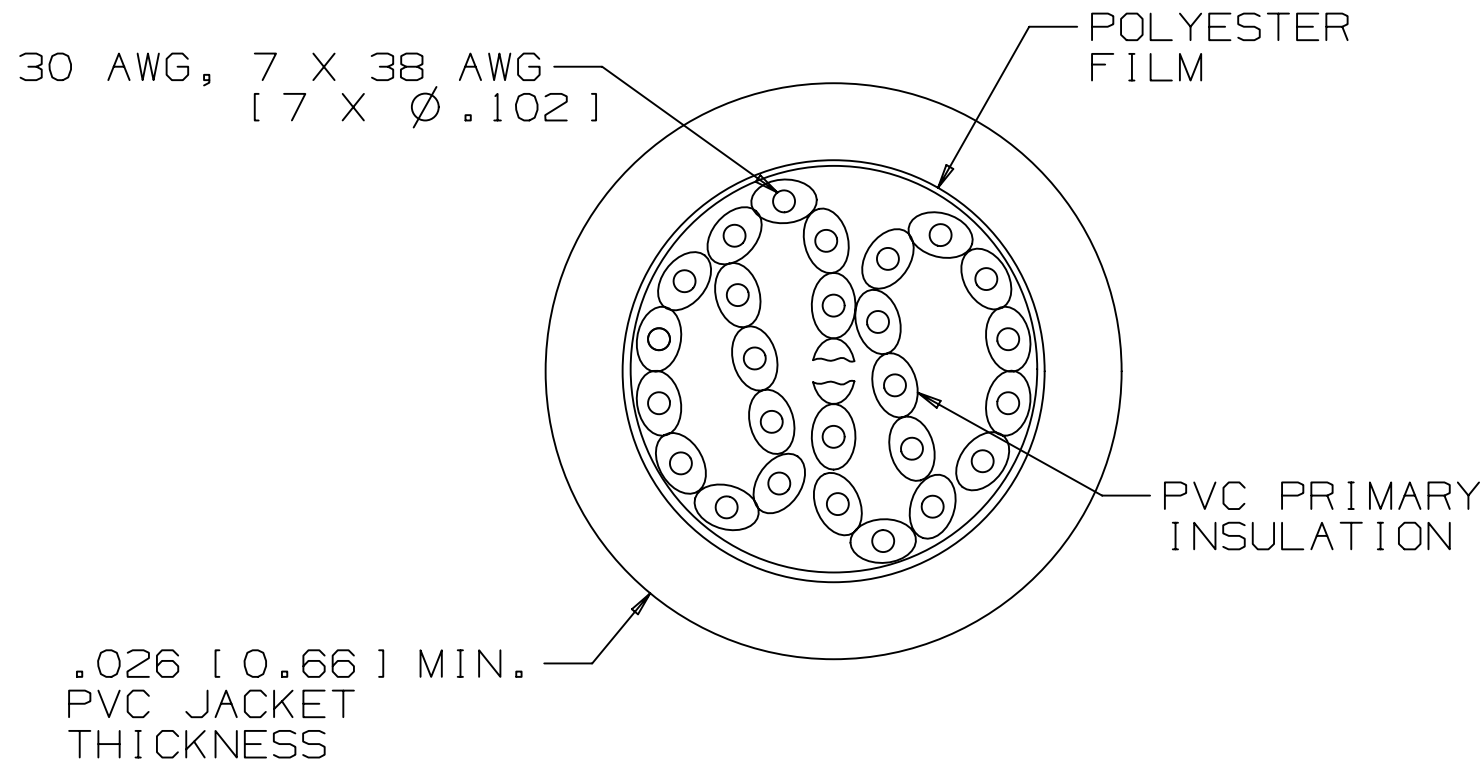
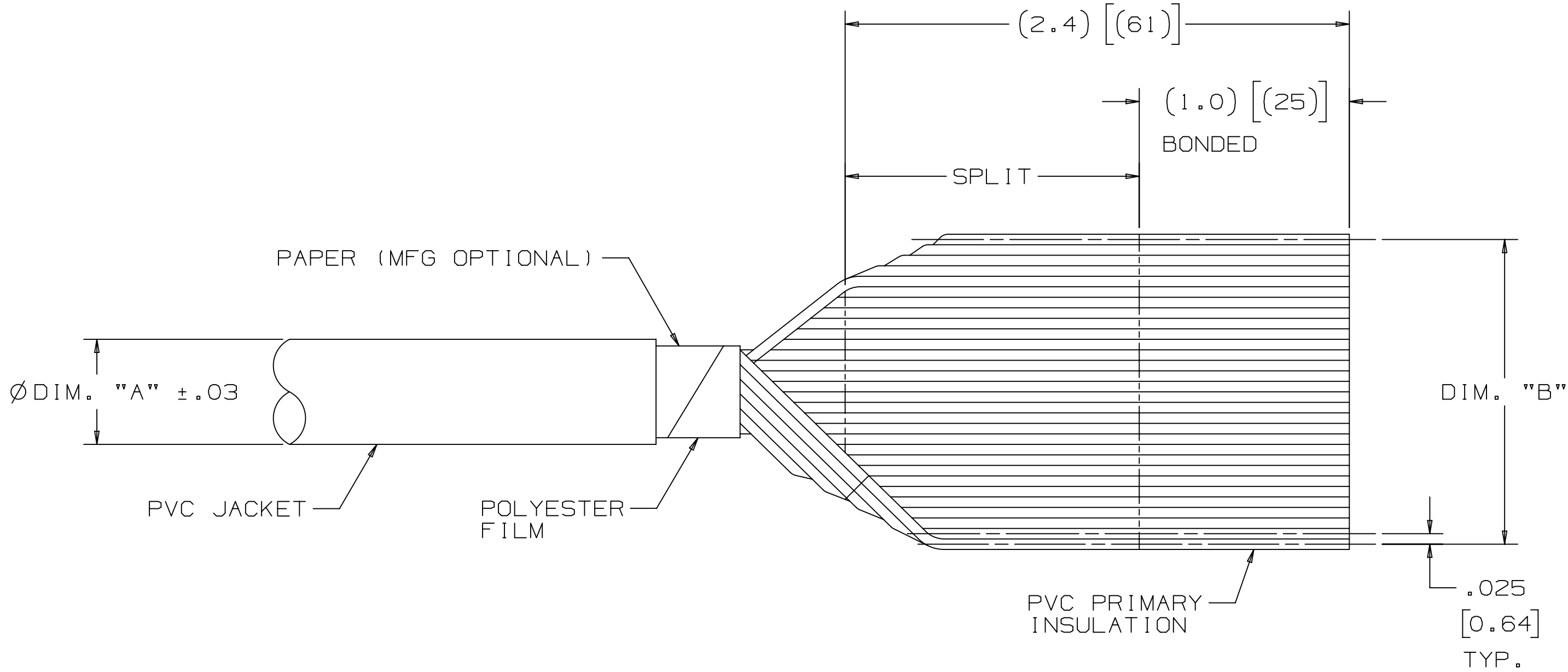


TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIMENSION "B" SEE NOTE 4
20	3896/20	.26 [6.6]	.475±.004 [12.70]
26	3896/26	.27 [6.9]	.625±.004 [15.88]
30	3896/30	.27 [6.9]	.725±.006 [18.42]
32	3896/32	.27 [6.9]	.775±.006 [19.69]
34	3896/34	.27 [6.9]	.825±.006 [20.96]
36	3896/36	.27 [6.9]	.875±.006 [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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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.

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 PRECEDENT.
3. RED MARKING ON EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
4. DIMENSION B REFERS TO BONDED AREA ONLY.

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]	
CHARACTERISTIC IMPEDANCE	UNBALANCED 73Ω	BALANCED 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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
3896		ECO		MAR 03,2023		
DIVISION	DIVISION CODE	CHKD	DATE	DATE	DATE	DATE
DO NOT SCALE DRAWING	SCALE	EMSD				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018					
MAX SURFACE ROUGHNESS	ALL SURFACES					
MARKED ONLY						
TOLERANCES EXCEPT AS NOTED		© 3M COPYRIGHT 2023				
INCHES .0 ±.1 .00 ±.05 .000 ±.010 .0000 ±.0005		This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
MILLIMETERS 0 ± .0 ±.00 .000 ±		TITLE ROUND, JACKETED, FLAT CABLE, .025" PITCH, 30AWG STRANDED, 3896				
CAGE NUMBER		SIZE	DRAWING NO.	REV.		
D		78-5100-2173-2	E			
MODEL		3896	LISTS	YES	NO	SHT 1 OF 2

	8	7	6	5	4	3	2	1
D	3M™ ROUND, JACKETED, FLAT CABLE, 3896 SERIES .025: PITCH 30 AWG STRANDED, MASS-TERM, PVC/PVC							
	Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.							
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	8	7	6	5	4	3	2	1

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
XREFS		XREFS		DRFT	DATE		MFG	DATE	
CODES		CODES		CHKD	DATE		APPR	DATE	
DIVISION		DIVISION CODE		E		MAR 03,2023		JNC	FJR
DO NOT SCALE DRAWING		SCALE		REVISED AND REDRAWN		MAR 03,2023			
THIRD ANGLE PROJECTION		TOLERANCES EXCEPT AS NOTED		DATE		MAR 03,2023			
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		DATE		MAR 03,2023			
MAX SURFACE ROUGHNESS		INCHES		DATE		MAR 03,2023			
ALL SURFACES		TOLERANCES EXCEPT AS NOTED		DATE		MAR 03,2023			
MARKED ONLY		MILLIMETERS		DATE		MAR 03,2023			
ANGLES		INCHES		DATE		MAR 03,2023			
CAGE NUMBER		SIZE		DRAWING NO.		REV.			
D		D		78-5100-2173-2		E			
MODEL		3896		DET		LTS		YES NO SHT 2 OF 2	