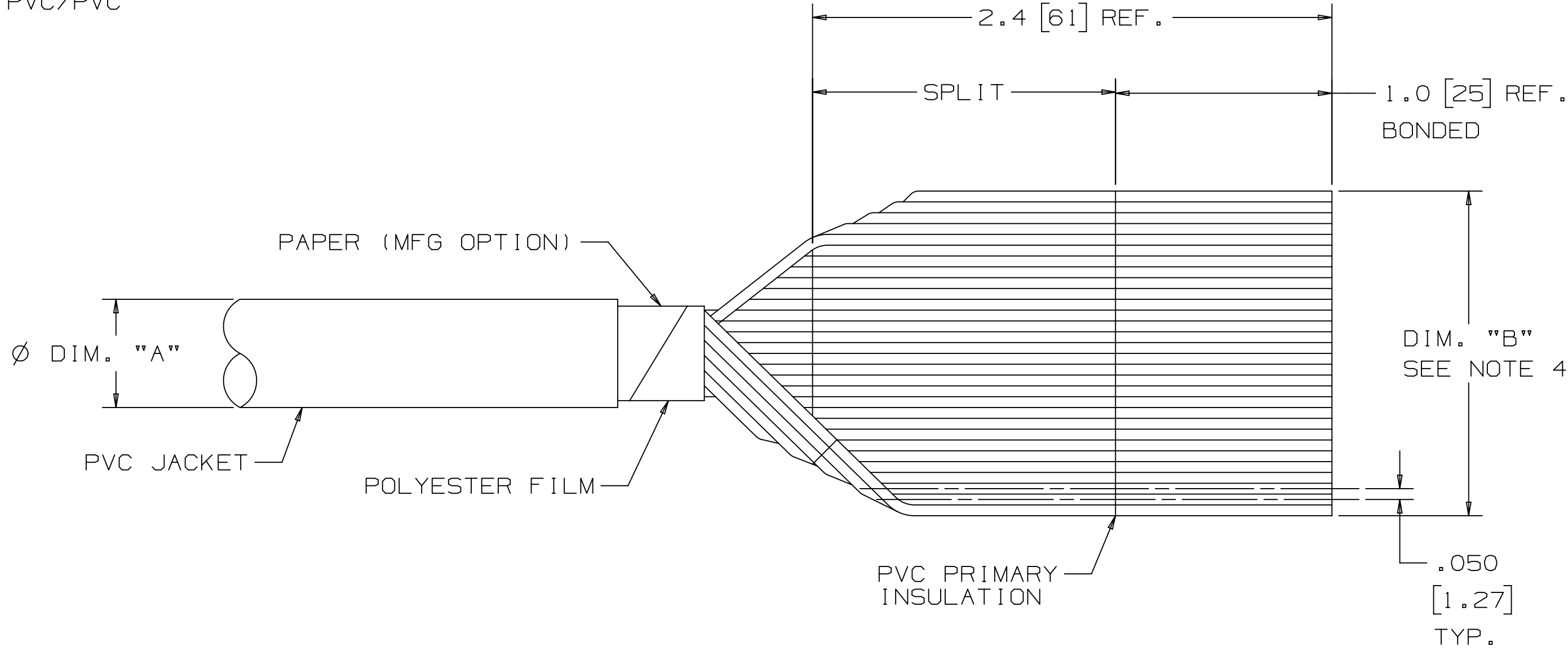
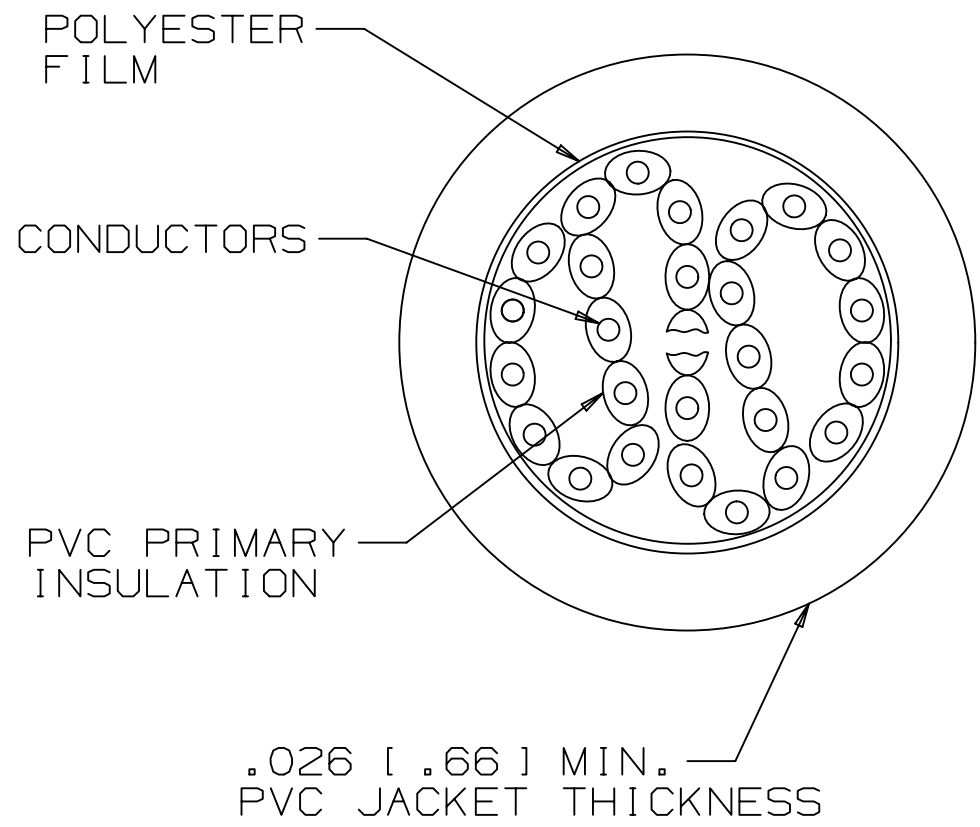


3M™ ROUND JACKETED, FLAT CABLE, 3834 SERIES
.050" 28 AWG STRANDED, MASS TERMINATED, PVC/PVC



- * HIGH FLEX LIFE CABLE PRODUCT IN A ROUND JACKETED CONSTRUCTION PERMITS FLEXING.
- * ROUND CONSTRUCTION PERMITS MORE EASY ROUTING.
- * 28 AWG WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BROAD LINE OF IDC CONNECTORS.
- * CONTINUOUS SPLIT/BOND REPEAT ALLOWS FOR MASS TERMINATION ON 2.4 INCH CENTERS (APPROXIMATE).
- * MEETS EXTERNAL WIRING REQUIREMENTS OF NATIONAL ELECTRICAL CODE, ARTICAL 725 (CL2).
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.



- NOTES
1. REGULATORY INFORMATION: VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
 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 ONE EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
 4. DIMENSION "B" PERTAINS TO BONDED AREA ONLY.

ORDERING INFORMATION

3834/XX XX XX

NUMBER OF CONDUCTORS (SEE TABLE 1)

BLANK = STANDARD
SF = SPLICE FREE

BLANK = STANDARD
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.

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A" ±.03	DIM. "B" SEE NOTE 4
10	3834/10	0.26 [6.6]	0.45 [11.4]
14	3834/14	0.27 [6.9]	0.65 [16.5]
16	3834/16	0.27 [6.9]	0.75 [19.1]
20	3834/20	0.30 [7.6]	0.95 [24.1]
24	3834/24	0.33 [8.4]	1.15 [29.2]
26	3834/26	0.33 [8.4]	1.25 [31.8]
34	3834/34	0.37 [9.4]	1.65 [41.9]
40	3834/40	0.39 [9.9]	1.95 [49.5]
50	3834/50	0.44 [11.2]	2.45 [62.2]
60	3834/60	0.47 [11.9]	2.95 [74.9]
64	3834/64	0.50 [12.7]	3.15 [80.0]

2 PHYSICAL :

JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
COLOR: BLACK
PRIMARY MATERIAL: POLYVINYL CHLORIDE (PVC)

MARKING:
STANDARD: SEE "PRINTING ILLUSTRATION" BELOW
CONDUCTORS: 28 AWG, 19 X 40 AWG [19 X Ø0.079] SILVER PLATED STRANDED COPPER ALLOY (89% CONDUCTIVITY)
INNER WRAP: POLYESTER FILM

2 ELECTRICAL :

VOLTAGE RATING: USA: N.E.C. 725, CL2 CANADIAN 300V, EU: <50V
INSULATION RESISTANCE: (PRIMARY CABLE) >1 X 10¹⁰Ω/10ft. [3m]

	UNBALANCED	BALANCED
	75Ω	128Ω
CHARACTERISTIC IMPEDANCE:	22.4 pF/ft [73.5 pF/m]	12.8 pF/ft [42.00 pF/m]
CAPACITANCE:	0.12μH/ft [0.41μH/m]	0.21μH/ft [0.69μH/m]
INDUCTANCE:	1.67 ns/ft [5.48 ns/m]	1.64 ns/ft [5.38 ns/m]
PROPAGATION DELAY:	61%	62%
VELOCITY OF PROPAGATION:		

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

2 ENVIRONMENTAL :

TEMPERATURE RATING: USA: CL2: 75°C
CANADA: 80°C

FLAMMABILITY RATING: USA: N.E.C. 725, CL2
CANADA: FT1

"PRINTING ILLUSTRATION"



CL2 75°C 28 AWG 3M NU



AWM II A/B 80°C 300V FT1 EU <50V



UL FILE NO: E118773,
POWER LIMITED CIRCUIT
CABLE: CL2

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

DESIGN REFERENCE		NEXT ASSEMBLY	
AXES CODES			
DIVISION		DIVISION CODE	EMSD
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES	
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS	
MAX. SURFACE ROUGHNESS		ANGLES	
ALL SURFACES MARKED ONLY			

C	116060	MAY 06,2024	JNC	FJR
B	28877	JUL 15,2010	RE	RE
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRFT	CASTIGLIONE	DATE MAY 06,2024	MFG	DATE
CHKD		DATE	APPRV	DATE MAY 06,2024
			F. RODRIGUEZ	
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TITLE				
ROUND JACKETED, FLAT CABLE, .050" PITCH, 28AWG,				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-1006-5	C		
MODEL	3834	DET	LISTS	YES NO SHT 1 OF 2

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

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3M™ ROUND JACKETED, FLAT CABLE, 3834 SERIES
.050" 28 AWG STRANDED, MASS TERMINATED, PVC/PVC

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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Austin, TX 78753-5380
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DESIGN REFERENCE
XREFS
CODES

NEXT ASSEMBLY

DIVISION

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX. SURFACE ROUGHNESS
ALL SURFACES
MARKED ONLY

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES
±.1
±.05
±.010
±.0005

MILLIMETERS
±
±
±
±

ANGLES ±

REV
ECO

ISSUE DATE AND DESCRIPTION
MAY 06,2024

DRFT
CHKD

DATE
MAY 06,2024

APPR
F. RODRIGUEZ

DATE
MAY 06,2024

3M

3M Center
St. Paul,
MN 55144

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TITLE
ROUND JACKETED, FLAT CABLE, .050" PITCH, 28AWG,

CAGE NUMBER
D78-5100-1006-5

SIZE
C

DRAWING NO.
78-5100-1006-5

REV.
C

MODEL
3834

DET
LISTS

YES

NO

SHT 2 OF 2