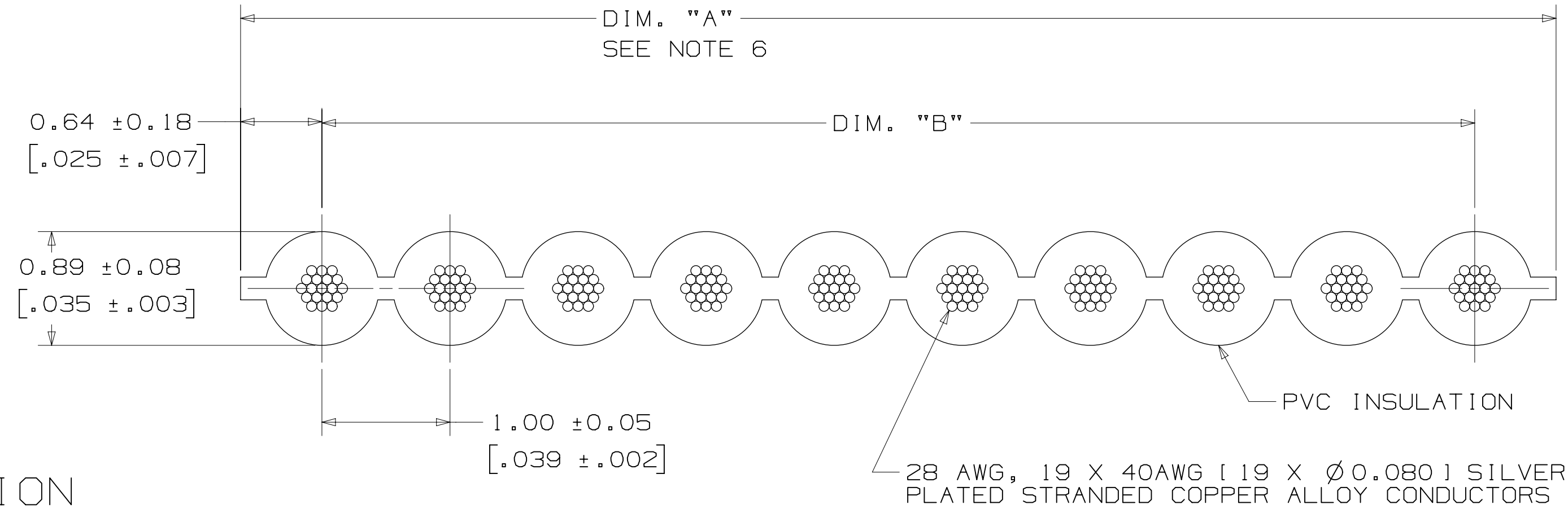


3M™ HIGH FLEX CABLE, ROUND CONDUCTOR, 3250 SERIES  
1.0 mm 28 AWG STRANDED, PVC



ORDERING INFORMATION

3250/XX XX

BLANK = STANDARD  
C = CANADIAN CERTIFIED VERSION

BLANK = STANDARD  
SF = SPLICE FREE

NUMBER OF CONDUCTORS (SEE TABLE)

NOTE: AVAILABLE IN STANDARD 30m OR 100m ROLLS. PLEASE SPECIFY WHEN ORDERING. CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIMENSION A	DIMENSION B
06	3250/06	6.00±0.20 [ .236 ]	5.00±.18 [ .197 ]
08	3250/08	8.00±0.20 [ .315 ]	7.00±.18 [ .276 ]
10	3250/10	10.00±0.20 [ .394 ]	9.00±.18 [ .354 ]
12	3250/12	12.00±0.20 [ .472 ]	11.00±.18 [ .433 ]
14	3250/14	14.00±0.20 [ .551 ]	13.00±.18 [ .512 ]
16	3250/16	16.00±0.22 [ .630 ]	15.00±.20 [ .591 ]
18	3250/18	18.00±0.22 [ .709 ]	17.00±.20 [ .669 ]
20	3250/20	20.00±0.22 [ .787 ]	19.00±.20 [ .748 ]
22	3250/22	22.00±0.22 [ .866 ]	21.00±.20 [ .827 ]
24	3250/24	24.00±0.22 [ .945 ]	23.00±.20 [ .906 ]
26	3250/26	26.00±0.22 [ 1.024 ]	25.00±.20 [ .984 ]
28	3250/28	28.00±0.22 [ 1.102 ]	27.00±.20 [ 1.063 ]
30	3250/30	30.00±0.25 [ 1.181 ]	29.00±.23 [ 1.142 ]
32	3250/32	32.00±0.25 [ 1.260 ]	31.00±.23 [ 1.220 ]
34	3250/34	34.00±0.25 [ 1.339 ]	33.00±.23 [ 1.299 ]
36	3250/36	36.00±0.25 [ 1.417 ]	35.00±.23 [ 1.378 ]
38	3250/38	38.00±0.25 [ 1.496 ]	37.00±.23 [ 1.457 ]
40	3250/40	40.00±0.25 [ 1.575 ]	39.00±.23 [ 1.535 ]
42	3250/42	42.00±0.25 [ 1.654 ]	41.00±.23 [ 1.614 ]
44	3250/44	44.00±0.25 [ 1.732 ]	43.00±.23 [ 1.693 ]
46	3250/46	46.00±0.25 [ 1.811 ]	45.00±.23 [ 1.772 ]
48	3250/48	48.00±0.25 [ 1.890 ]	47.00±.23 [ 1.850 ]
50	3250/50	50.00±0.25 [ 1.969 ]	49.00±.23 [ 1.929 ]

PHYSICAL :

INSULATION MATERIAL: POLYVINYL CHLORIDE (PVC)  
COLOR: BLACK  
MARKING: NONE  
STANDARD: NONE  
CANADIAN: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS MATERIAL: 28 AWG, 19 X 40AWG (19 X Ø0.080) SILVER PLATED STRANDED COPPER ALLOY (89% CONDUCTIVITY)

ELECTRICAL :

VOLTAGE RATING: USA 300V CANADIAN 300V EU: <50V  
INSULATION RESISTANCE: (PRIMARY CABLE) >1 X 10<sup>10</sup>Ω/10ft. [ 3m ]

CHARACTERISTIC IMPEDANCE:	UNBALANCED 80Ω	BALANCED 137Ω
CAPACITANCE:	61.5 pF/m [ 18.8 pF/ft ]	34.2 pF/m [ 10.4 pF/ft ]
INDUCTANCE:	0.40μH/m [ .12μH/ft ]	0.64μH/m [ .20μH/ft ]
PROPAGATION DELAY:	4.94 ns/m [ 1.51 ns/ft ]	4.69 ns/m [ 1.43 ns/ft ]
VELOCITY OF PROPAGATION:	67%	71%

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

ENVIRONMENTAL :

TEMPERATURE RATING: -20°C TO 105°C  
FLAMMABILITY RATING: USA: VW-1 CANADA: FT1

CANADIAN OPTION  
"PRINTING ILLUSTRATION"



AWM 2651 105C 300V VW1 3M NU



AWM 1A 105C 300V FT1 EU <50V

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- NOTES
- REGULATORY INFORMATION: VISIT [3M.com/regs](http://3M.com/regs) OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.  
UL FILE NO: E42769, STYLE No: 2651
  - FLEX LIFE OF 100 MILLION CYCLES AT 1-3/4" DIA.
  - 19 STRANDS OF HIGH STRENGTH COPPER ALLOY PROVIDES THE LONGEST FLEX LIFE AVAILABLE FOR DYNAMIC APPLICATION.
  - 28 AWG WIRE ON 1.0MM WIRE SPACING PERMITS MASS TERMINATION TO A BROAD LINE OF IDC CONNECTORS.
  - ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.
  - RED MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.

DIMENSIONS: MM [ INCH ]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JUL 30, 2019	JNC	RLI
				PRODUCTION RELEASE		
DO NOT SCALE DRAWING	SCALE 30 1	DIVISION CODE: EMSD TOLERANCES EXCEPT AS NOTED INCHES: .00, .000, .0000 MILLIMETERS: 0, .00, .000, .0000 INTERPRET PER ASME Y14.5 - 2018 MAX SURFACE ROUGHNESS: 0.80, 0.40, 0.20 SURFACES: 0.80, 0.40, 0.20 MARKED ONLY ANGLE: 30				
TOLERANCE - UNLESS NOTED MM: ±0.3 [ INCH ]: ±.01 [ ] = DIM. FOR REFERENCE ONLY			3M © 3M COPYR [GHT] 2020 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.			
TITLE: HIGH FLEX CABLE, RD CONDUCTOR, 3250 SERIES, 1.0MM, 28AWG		CAGE NUMBER: D78-5100-2694-7 MODEL: 3250				

178-5100-2694-7  
DRAWING NUMBER  
178-5100-2694-7  
REV  
0rr-set (hrs) 6  
-- UTC  
Time 2/13/2020

8 7 6 5 4 3 2 1

3M™ HIGH FLEX CABLE, ROUND CONDUCTOR, 3250 SERIES  
1.0 mm 28 AWG STRANDED, PVC

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

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3M Business Center  
Electronics Materials Solutions Division  
13011 McCallen Pass, BLDG C  
Austin, TX 78753-5380  
1-800-225-5373  
www.3M.com/interconnect

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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		A	85634	JUL 30, 2019 PRODUCTION RELEASE	JNC	RL1
DATE	DATE	DATE	DATE	DATE	DATE	DATE
CASTIGLIONE	JUL 03, 2019	MFG				
CHKD	DATE	APPR	DATE	DATE	DATE	DATE
J. GEISSINGER	JUL 30, 2019	RON IMKEN	JUL 12, 2019			
DIVISION	DIVISION CODE	 © 3M COPYRIGHT 2020 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.				
DO NOT SCALE DRAWING	SCALE 8/1	TOLERANCES EXCEPT AS NOTED INCHES .00 ± .000 ± .0000 ± MILLIMETERS 0 ± .00 ± .000 ± .000 ±				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MAX SURFACE ROUGHNESS SURFACES <input checked="" type="checkbox"/> MARKED ONLY				
TITLE HIGH FLEX CABLE, RD CONDUCTOR, 3250 SERIES, 1.0MM, 28AWG		CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D		78-5100-2694-7	A	
		MODEL		3250	DET	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> SHT 2 OF 2

78-5100-2694-7  
 DRAWING NUMBER  
 A REVISION  
 6  
 Drr.set (hrs)  
 6  
 UTC  
 2/13/2020  
 Time