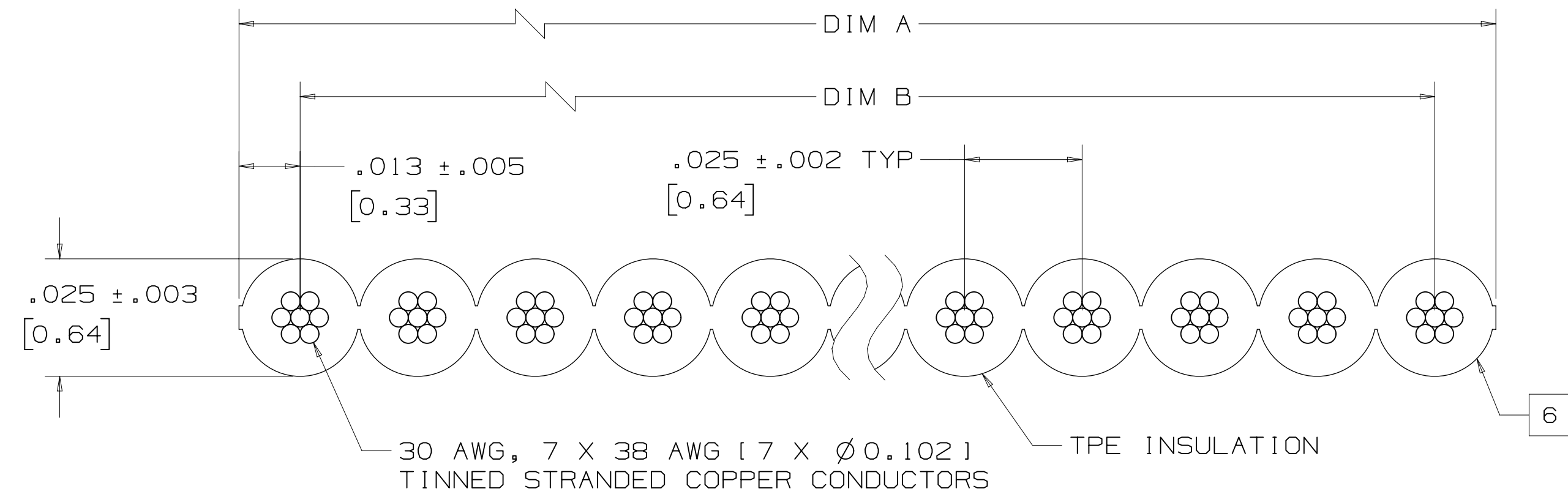


3M™ ROUND CONDUCTOR FLAT CABLE, 3756 SERIES  
 .025" 30 AWG STRANDED, TPE

- NOTES
- REGULATORY INFORMATION: FOR REGULATORY INFORMATION ABOUT THIS PRODUCT, VISIT [3m.com/regs](http://3m.com/regs) OR CONTACT YOUR 3M REPRESENTATIVE.  
 UL FILE NO: E42769.  
 STYLE NO: 20297
  - .025 INCH WIRE SPACING INCREASES SIGNAL DENSITY
  - TPE INSULATION PROVIDES EXCELLENT TRANSMISSION PROPERTIES.
  - 30 AWG STRANDED CONDUCTORS ON .025 INCH WIRE SPACING IS DESIGNED FOR MASS TERMINATION AND FLEXIBILITY.
  - MEETS THE SCSI-3 CHARACTERISTIC IMPEDANCE REQUIREMENTS.
  - BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.



ORDERING INFORMATION

3756/XX XX

BLANK = STANDARD  
 C = CANADIAN CERTIFIED VERSION

BLANK = STANDARD  
 SF = SPLICE FREE

NUMBER OF CONDUCTORS (SEE TABLE)

NOTE:  
 AVAILABLE IN STANDARD 100 FT OR 300 FT 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
10	3756/10	0.250±.006 [ 6.35 ]	0.225±.004 [ 5.72 ]
12	3756/12	0.300±.006 [ 7.62 ]	0.275±.004 [ 6.99 ]
14	3756/14	0.350±.006 [ 8.89 ]	0.325±.004 [ 8.26 ]
16	3756/16	0.400±.006 [ 10.16 ]	0.375±.004 [ 9.53 ]
20	3756/20	0.500±.006 [ 12.70 ]	0.475±.004 [ 12.07 ]
26	3756/26	0.650±.006 [ 16.51 ]	0.625±.004 [ 15.88 ]
30	3756/30	0.750±.009 [ 19.05 ]	0.725±.006 [ 18.42 ]
34	3756/34	0.850±.009 [ 21.59 ]	0.825±.006 [ 20.96 ]
36	3756/36	0.900±.009 [ 22.86 ]	0.875±.006 [ 22.23 ]
40	3756/40	1.000±.009 [ 25.40 ]	0.975±.006 [ 24.77 ]
50	3756/50	1.250±.009 [ 31.75 ]	1.225±.006 [ 31.12 ]
60	3756/60	1.500±.012 [ 38.10 ]	1.475±.009 [ 37.47 ]
68	3756/68	1.700±.012 [ 43.18 ]	1.675±.009 [ 42.55 ]
80	3756/80	2.000±.015 [ 50.80 ]	1.975±.011 [ 50.17 ]
100	3756/100	2.500±.015 [ 63.50 ]	2.475±.012 [ 62.87 ]

PHYSICAL :

INSULATION MATERIAL: THERMOPLASTIC ELASTOMER, TPE (TPO TYPE)  
 COLOR: GRAY  
 MARKING: NONE  
 STANDARD: NONE  
 CANADIAN: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS MATERIAL: 30 AWG, 7 X 38AWG (7 X Ø0.102) TINNED STRANDED COPPER

ELECTRICAL :

VOLTAGE RATING: USA 150V CANADIAN 150V EU: <50V  
 INSULATION RESISTANCE: >1 X 10<sup>10</sup>Ω/10ft. [ 3m ]

CHARACTERISTIC IMPEDANCE:	UNBALANCED 82Ω	BALANCED 138Ω
CAPACITANCE:	17.3 pF/ft [ 56.8 pF/m ]	10.0 pF/ft [ 32.8 pF/m ]
INDUCTANCE:	0.12μH/ft [ 0.38μH/m ]	0.19μH/ft [ 0.62μH/m ]
PROPAGATION DELAY:	1.42 ns/ft [ 4.66 ns/m ]	1.38 ns/ft [ 4.53 ns/m ]
VELOCITY OF PROPAGATION:	72%	74%

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

ENVIRONMENTAL :

TEMPERATURE RATING: -40°C TO +105°C  
 FLAMMABILITY RATING: USA: UL HORIZONTAL CANADA: FT2



CANADIAN OPTION  
 "PRINTING ILLUSTRATION"

**AWM 20297 105C 150V HB 3M NU**

**AWM 1A 105C 150V FT2 EU <50V**

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 INTERCONNECT SOLUTIONS  
<http://www.3m.com/interconnect>

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INCH [ MM ]			
TOLERANCE - UNLESS NOTED			
INCH	±.1	±.05	±.010
[ ] = DIM.	FOR REFERENCE ONLY		

DIMENSIONS: INCH [ MM ]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		L	SCHMIDT	DEC 14, 2021	MFG	DATE
		T	PLEPYS	JAN 04, 2022	APPL	DATE
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2022 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 4/1	TOLERANCES EXCEPT AS NOTED		<b>3M</b> Center St. Paul, MN 55144		
THIRD ANGLE PROJECTION		MILLIMETERS		TITLE ROUND CONDUCTOR FLAT CABLE SERIES 3756 .025" 30AWG STRANDED		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS		CAGE NUMBER D 78-5100-0508-1		
MAX SURFACE ROUGHNESS 125		MILLIMETERS		DRAWING NO. 78-5100-0508-1		
<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY		ANGLES ±1°		REV. H		

H REVISION  
 178-5100-0508-1 DRAWING NUMBER  
 B  
 1/20/2022 -- UTC Drr:set (hrs) 6  
 A  
 Time 1/20/2022 -- UTC

3M™ ROUND CONDUCTOR FLAT CABLE, 3756 SERIES  
 .025" 30 AWG STRANDED, TPE

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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
				L		JAN 04, 2022 REDRAWN WORK REQUEST 13221		LDS	TRP
APPROVED	DATE	CHKD	DATE	APPR	DATE				
		T	JAN 04, 2022						
DIVISION		DIVISION CODE		 © 3M COPYRIGHT 2022 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 4/1	TOLERANCES EXCEPT AS NOTED							
THIRD ANGLE PROJECTION		INCHES							
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS							
MAX SURFACE ROUGHNESS 125		ANGLES ±1°							
<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY				CAGE NUMBER		DRAWING NO.		REV.	
				D 78-5100-0508-1		H		SHT 2 OF 2	

78-5100-0508-1  
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