

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

ORDERING INFORMATION

3756/XX XX

BLANK = STANDARD
C = CANADIAN CERTIFIED
VERSION

NUMBER OF CONDUCTORS
(SEE TABLE)

BLANK = STANDARD
SF = SPLICE FREE

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]



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

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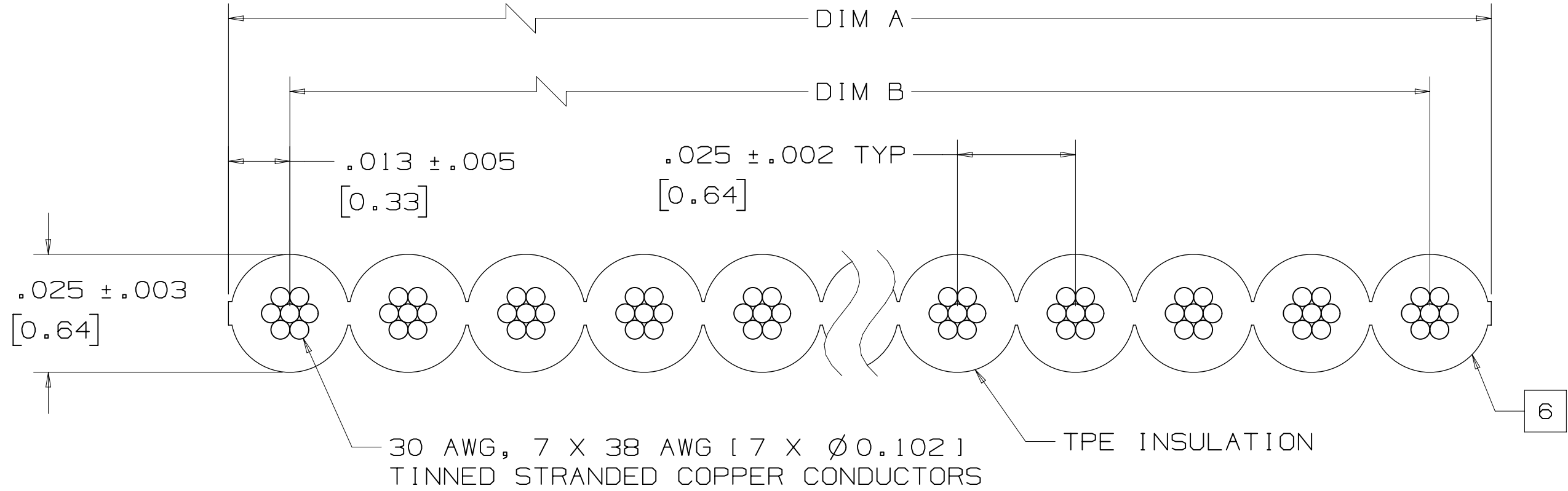


CANADIAN OPTION
"PRINTING ILLUSTRATION"



AWM 20297 105C 150V HB 3M NU

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



PHYSICAL :

INSULATION
MATERIAL: THERMOPLASTIC ELASTOMER, TPE (TPO TYPE)
COLOR: GRAY
MARKING
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 10¹⁰Ω/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

- NOTES
- REGULATORY INFORMATION:
FOR REGULATORY INFORMATION
ABOUT THIS PRODUCT, VISIT
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.

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

DIMENSIONS: INCH [MM]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD		
CODES		L	SCHMIDT	DATE DEC 14, 2021	MFG	DATE		
DIVISION		CHKD	T PLEPYS	DATE JAN 04, 2022	APPRVL	DATE		
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED						
THIRD ANGLE PROJECTION		INCHES .0 .00 ±.1 .00 ±.02 .000 ±.005 .0000 ±.0002						
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .0 .00 ± .000 ± .000						
MAX SURFACE ROUGHNESS 125 /	☐ ALL SURFACES	ANGLES ±1 °						
☒ MARKED ONLY								
		H 0101481		JAN 04, 2022		LDS TRP		
				REDRAWN				
				WORK REQUEST 13221				
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		TITLE ROUND CONDUCTOR FLAT CABLE SERIES 3756 .025" 30AWG STRANDED						
		CAGE NUMBER D 78-5100-0508-1		DRAWING NO.		REV. H		
		MODEL		DET		ISTS		
				YES		NO		
				SHT 1 OF 2				

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

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

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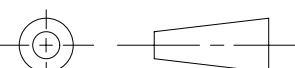
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				CHKD		T PLEPYS		DATE	
DIVISION		DIVISION CODE		DATE		JAN 04, 2022		DATE	
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		INCHES .0 .00 .000 .0000 .0002 .0002		ALL METERS .0 .00 .000 .0002 .0002		TITLE ROUND CONDUCTOR FLAT CABLE SERIES 3756 .025" 30AWG STRANDED			
THIRD ANGLE PROJECTION						CASE NUMBER D 78-5100-0508-1		REV. H	
MAX SURFACE ROUGHNESS 125		☐ ALL SURFACES ☒ MARKED ONLY		ANGLES ± 1°		DRAWING NO. 78-5100-0508-1		DET. YES ☐ NO ☒	
				MODEL		SHT 2 OF 2			