

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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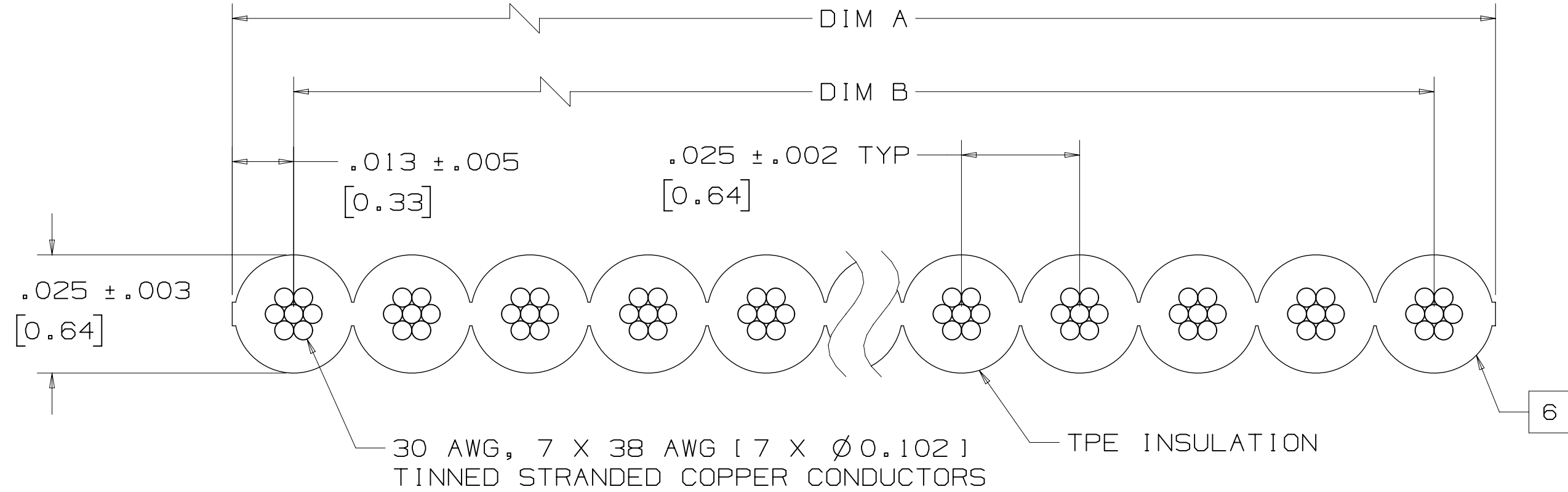
AWM 20297 105C 150V HB 3M NU



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

CANADIAN OPTION

"PRINTING ILLUSTRATION"



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.

DIMENSIONS: INCH [MM]

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
CODES		L	SCHMIDT	DEC 14, 2021	MFG	DATE
DIVISION		CHKD	T PLEPYS	JAN 04, 2022	APPRVL	DATE
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED	INCHES .0 ±.1 .00 ±.02 .000 ±.005 .0000 ±.0002			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ± .0 ±.00 ±.000 ±.000	ANGLES ±1°			
MAX SURFACE ROUGHNESS 125/√ ALL SURFACES MARKED ONLY		CAGE NUMBER D	SIZE 78-5100-0508-1	DRAWING NO.	REV. H	
		MODEL		DET LISTS	YES	NO
				SHT	1	OF 2

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 .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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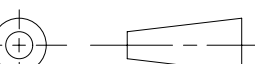
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DIVISION		DIVISION CODE		 3M Center St. Paul, MN 55144		© 3M COPYRIGHT 2022 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or copied other than for 3M authorized purposes.			
DO NOT SCALE DRAWING	SCALE 4 1	TOLERANCES EXCEPT AS NOTED		TITLE					
		INCHES .0 .00 ±.1 .00 ±.02 .000 ±.005 .0000 ±.0002		ROUND CONDUCTOR FLAT CABLE SERIES 3756 .025" 30AWG STRANDED					
THIRD ANGLE PROJECTION		MILLIMETERS .0 .00 ±.1 .00 ±.02 .000 ±.005		CASE NUMBER SIZE DRAWING NO. REV. D 78-5100-0508-1 H					
MAX SURFACE ROUGHNESS 125		MAX SURFACE ROUGHNESS 125		MODEL DET. YES ☐ NO ☒ SHT 2 OF 4					
☐ ALL SURFACES ☒ MARKED ONLY		MAX SURFACE ROUGHNESS 125		ANGLES ± 1°					