

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]



CANADIAN OPTION
"PRINTING ILLUSTRATION"



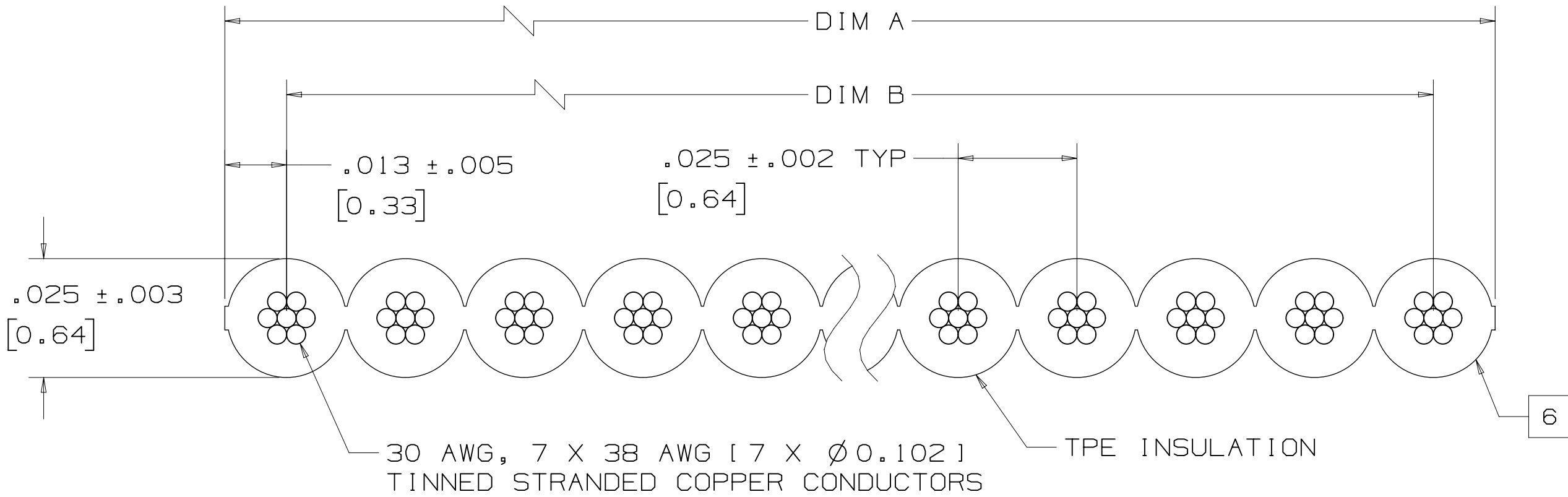
AWM 20297 105C 150V HB 3M NU



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

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

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INFORMATION CALL 800-225-5373



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 Ø 0.102]
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.

6 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
		CHKD	T PLEPYS	JAN 04, 2022	APPRVL	DATE
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2022				
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	INCHES .00 ±.01 .000 ±.005 .0000 ±.0002				
MAX SURFACE ROUGHNESS 125/√	ALL SURFACES MARKED ONLY	MILLIMETERS 0 ±.0 .00 ±.000 ±.0002				
		CAGE NUMBER		DRAWING NO.		
		D		78-5100-0508-1		
		MODEL		REV. H		
				DET. LISTS		
				YES NO SHT 1 OF 2		

8

7

6

5

4

3

2

1

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

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
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DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

0101481

JAN 04, 2022

LDS

TRP

REDRAWN

WORK REQUEST 13221

DO NOT SCALE DRAWING

SCALE 4 1

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS 125

ALL SURFACES MARKED ONLY

INCHES 0.0 ±.1 0.00 ±.02 0.000 ±.005 0.0000 ±.0002

MILLIMETERS 0 ±.1 0.0 ±.02 0.00 ±.005 0.000 ±.0002

ANGLES ±1°

3M

3M Center St. Paul, MN 55144

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TITLE

ROUND CONDUCTOR FLAT CABLE SERIES 3756 .025" 30AWG STRANDED

CAGE NUMBER

SIZE

DRAWING NO.

REV.

D

78-5100-0508-1

H

MODEL

DET

LISTS

YES

NO

SHT 2 OF 2

78-5100-0508-1

DRAWING NUMBER

1/20/2022

UTC

6

hrs

Off-set

1

revision