

.025" 30 AWG STRANDED, TPE

3756/XX XX

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.

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 ]

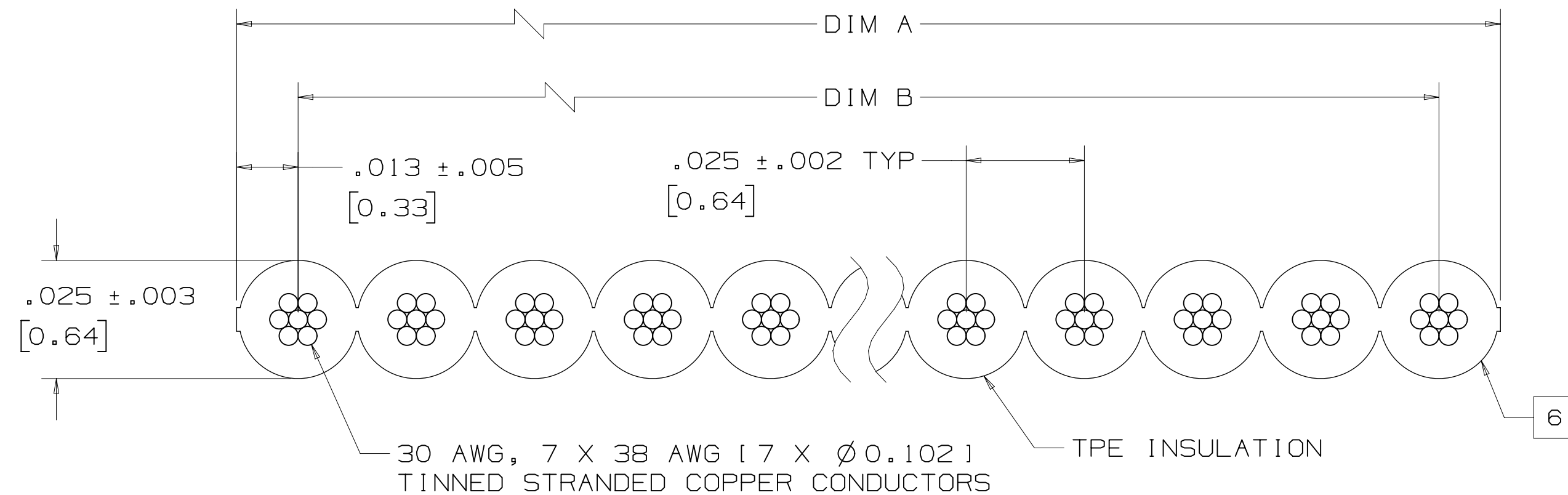


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INFORMATION CALL 800-225-5373



**CV**

AWM I A 105C 150V FT2 EU &lt;50V



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

VOLTAGE RATING: USA 150V CANADIAN 150V EU: <50V  
INSULATION RESISTANCE:  $>1 \times 10^{10} \Omega / 10ft. (3m)$


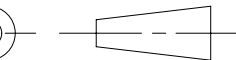
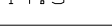
	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE:	82Ω	138Ω
CAPACITANCE:	17.3 pF/ft [ 56.8 pF/m ]	10.0 pF/ft [ 32.8 pF/m ]
INDUCTANCE:	0.12 μH/ft [ 0.38 μH/m ]	0.19 μH/ft [ 0.62 μH/m ]
PROPAGATION DELAY:	1.42 ns/ft [ 4.66 ns/m ]	1.38 ns/ft [ 4.53 ns/m ]
VELOCITY OF PROPAGATION:	72%	74%

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

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

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																			
<del>THIS CODES</del>						<del></del>						<del></del>						<del></del>						DRFT						L SCHMIDT						DATE						DEC 14, 2021		INFO		DATE					
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DIVISION												DIVISION CODE																														© 3M COPYRIGHT 2022									
DO NOT SCALE DRAWING						SCALE 4 1						TOLERANCES EXCEPT AS NOTED						 St. Paul, MN 55144																								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.									
						THIRD ANGLE PROJECTION						INCHES .00 ± .1 .00 ± .02 .000 ± .005 .0000 ± .0002						TITLE						ROUND CONDUCTOR FLAT CABLE SERIES 3756																											
INTERPRET PER ASME Y14.5 - 2018						NILL METERS						.025" 30AWG STRANDED																																							
MAX SURFACE ROUGHNESS												CAGE NUMBER						SIZE						DRAWING NO.						REV.																					
125 ✓ □ ALL SURFACES						<input checked="" type="checkbox"/> MARKED ONLY						<b>D</b>						78-5100-0508-1																																	
						ANGI FS ± .1°						MODEL						DET.						FLVS						<input checked="" type="checkbox"/> NO						SHT 1 OF															

NOTES	
1.	REGULATORY INFORMATION: FOR REGULATORY INFORMATION ABOUT THIS PRODUCT, VISIT 3m.com/regs OR CONTACT YOUR 3M REPRESENTATIVE.
	UL FILE NO: E42769. STYLE NO: 20297
2.	.025 INCH WIRE SPACING INCREASES SIGNAL DENSITY
3.	TPE INSULATION PROVIDES EXCELLENT TRANSMISSION PROPERTIES.
4.	30 AWG STRANDED CONDUCTORS ON .025 INCH WIRE SPACING IS DESIGNED FOR MASS TERMINATION AND FLEXIBILITY.
5.	MEETS THE SCSI-3 CHARACTERISTIC IMPEDANCE REQUIREMENTS.
6	BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.

[illegible]

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7

6

5

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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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DESIGN REFERENCE  
NEXT ASSEMBLY

REV  
ECO

ISSUE DATE AND DESCRIPTION  
DATE  
MFG  
DATE

DRFT  
CHKD

DATE  
APPRVL

DATE

DO NOT SCALE DRAWING

SCALE  
4  
1

TOLERANCES EXCEPT AS NOTED

INCHES  
±.1  
±.02  
±.005  
±.0002

THIRD ANGLE PROJECTION

INTERPRET PER  
ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS  
125  
ALL SURFACES  
MARKED ONLY

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  
D78-5100-0508-1

SIZE  
H

DRAWING NO.  
78-5100-0508-1

REV.  
H

MODEL  
DET  
LISTS  
YES  
NO  
SHT 2 OF 2

78-5100-0508-1  
Drawing Number

H  
Revision

1/20/2022  
Time

1/20/2022  
-- UTC

6  
hrs

6  
Off-set

# Mouser Electronics

Authorized Distributor

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3M:

[3756/68SF](#) [C3756/26](#) [3756/34SF](#) [C3756/80](#) [3756/10](#) [3756/14](#) [C3756/36](#) [7100161725](#) [7100161730](#)