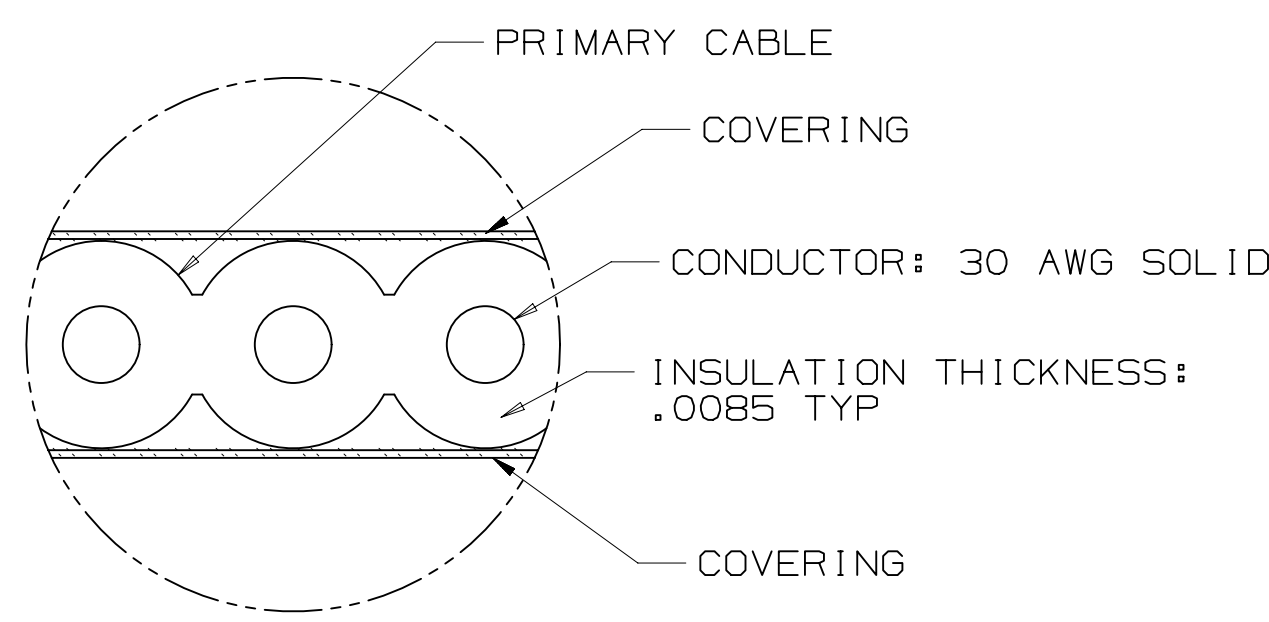
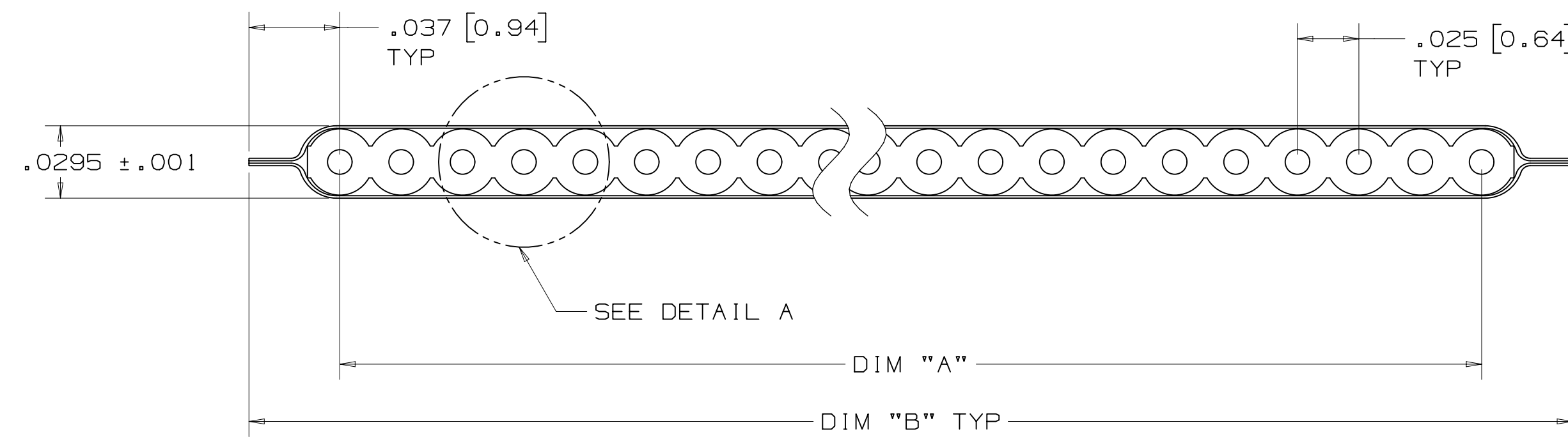


3M™ ROUND CONDUCTOR FLAT,
CONTROLLED IMPEDANCE CABLE, 7700 SERIES
.025" 30 AWG SOLID COVERED

PERFORMANCE:	
DIFFERENTIAL IMPEDANCE:	95 ± 5 Ohms
DIFFERENTIAL INSERTION LOSS:	< 3 dB/m AT 2.5 GHz TYP.
UL & CUL VOLTAGE RATING:	30V _{AC}
FLAMMABILITY RATING:	FT2, HORIZONTAL BURN
INSULATION RESISTANCE:	>1 × 10 ⁹ Ohms AT 500 VDC
WITHSTANDING VOLTAGE:	750VAC _{RMS} AT SEA LEVEL
OPERATING TEMPERATURE:	-20° C TO +80° C
UL & CUL TEMPERATURE RATING:	+80° C



DETAIL A
SCALE 40:1

TABLE 1		
NUMBER OF CONDUCTORS	DIM. "A"	DIM. "B" ± .010
10	.225 ± .006 [5.72 ± 0.15]	0.300 [7.62]
14	.325 ± .006 [8.26 ± 0.15]	0.400 [10.16]
16	.375 ± .006 [9.53 ± 0.15]	0.450 [11.43]
20	.475 ± .006 [12.07 ± 0.15]	0.550 [13.97]
30	.725 ± .009 [18.42 ± 0.23]	0.800 [20.32]
50	1.225 ± .009 [31.12 ± 0.23]	1.300 [33.02]
100	2.475 ± .015 [62.87 ± 0.38]	2.550 [64.77]

ORDERING INFORMATION

7700/XX XX
PRIMARY CABLE
0: 30 AWG SOLID 0.025" PITCH
BLANK: STANDARD
SF: SPLICE FREE
NUMBER OF CONDUCTORS:
(SEE TABLE 1)

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

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL
UL FILE NO: E42769

NOTES

- MATERIALS:
CONDUCTORS: 30 AWG SOLID TIN
PLATED COPPER
INSULATION: POLYOLEFIN
COVERING: ALUMINUM FOIL & POLYESTER
- EXAMPLE OF A DIFFERENTIAL PAIR PINOUT
USING 3M™ RIBBON CABLE SOCKET,
.05 X .05 PITCH, 451 SERIES IDC
CONNECTOR, P/N: 45114-0X00 XX:
GGSSGGSSGGSSGG
NOTE: EDGE WIRES ARE DESIGNATED
AS GROUNDS.
- CABLE PRINT CODE:
77XX/XX 30 AWG TIN RUN# ID#
- BEFORE TERMINATING TO AN IDC
CONNECTOR, COVERING MUST BE REMOVED
TO PREVENT IDC SHORTING TO FOIL.
- AVAILABLE IN STANDARD 100 FT. PLEASE
SPECIFY WHEN ORDERING. PLEASE
CONTACT YOUR LOCAL 3M SALES
REPRESENTATIVE FOR ADDITIONAL
CONDUCTOR COUNTS.
- THE SURFACE OF THE RIBBON CABLE HAS
A METALLIC APPEARANCE BUT IS NOT
CONDUCTIVE. THERE IS A TRANSLUCENT
POLYESTER OUTER LAYER OVER AN
ALUMINUM FOIL LAYER, WHICH GIVES
THIS APPEARANCE.
- THE CABLE CONSTRUCTION HAS A THIN
CONDUCTIVE ALUMINUM LAYER AT EACH
EDGE. USER SHOULD EVALUATE ITS USE
IN THEIR APPLICATION AND, IF
NECESSARY, INSULATING TAPE MAY BE
APPLIED TO COVER THE ALUMINUM LAYER,
AS USER DEEMS APPROPRIATE.
- REGULATORY INFORMATION: ROHS
COMPLIANT. VISIT WWW.3M.COM/REGS FOR
COMPLIANCE INFORMATION.

DIMENSIONS: INCHES [MM]
[MM] IS REF ONLY

DESIGN REFERENCE		NEXT ASSEMBLY	
ACCESS CODES			
DIVISION		DIVISION CODE	
DO NOT SCALE DRAWING	SCALE 20 1	TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES 0 ± .1 .00 ± .02 .000 ± .005 .0000 ± .0002	
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS 0 ± .1 .00 ± .02 .000 ± .005 .0000 ± .0002	
MAX SURFACE ROUGHNESS 125	☐ ALL SURFACES ☒ MARKED ONLY	ANGLES ± 1°	

C	74293	JUN 14, 2017 PRODUCT LAUNCH		SBC	FR
B	72021	FEB 28, 2017 UPDATED TO NEW DESIGN		SBC	JV
A	69905	SEP 20, 2016 WORK REQUEST 12281 INITIAL RELEASE		LDS	SBC
REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
DRFT	L SCHMIDT		DATE AUG 23, 2016	MFG DATE	
CHKD	S CLATANOFF		DATE SEP 13, 2016	APPVL DATE	
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TITLE ROUND CONDUCTOR FLAT, CNTRL IMPEDANCE 7700 SERIES .025 CABLE					
CAGE NUMBER	SIZE 	DRAWING NO. 78-5100-2667-3			REV. C
MODEL			DET. LISTS ☐ YES ☒ NO		SHT 1 OF 2

3M™ ROUND CONDUCTOR FLAT,
CONTROLLED IMPEDANCE CABLE, 7700 SERIES
.025" 30 AWG SOLID COVERED

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		CHKD S CLATANOFF		DATE SEP 13,2016	APPVL DATE	
DIVISION		DIVISION CODE		TITLE		
DO NOT SCALE DRAWING		SCALE 1 1		TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION		INCHES .0 ± .1 .00 ± .02 .000 ± .005 .0000 ± .0002		MILLIMETERS 0 ± .0 ± .00 ± .000 ±		
INTERPRET PER ASME Y14.5 - 2009		MAX SURFACE ROUGHNESS 125 ✓		ALL SURFACES ☐ MARKED ONLY		
ANGLES ±1°		3M 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2017 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.				
CAGE NUMBER	SIZE	DRAWING NO.			REV.	
78-5100-2667-3	C	78-5100-2667-3			C	
MODEL				DET. LISTS ☐ YES ☒ NO SHT 2 OF 2		