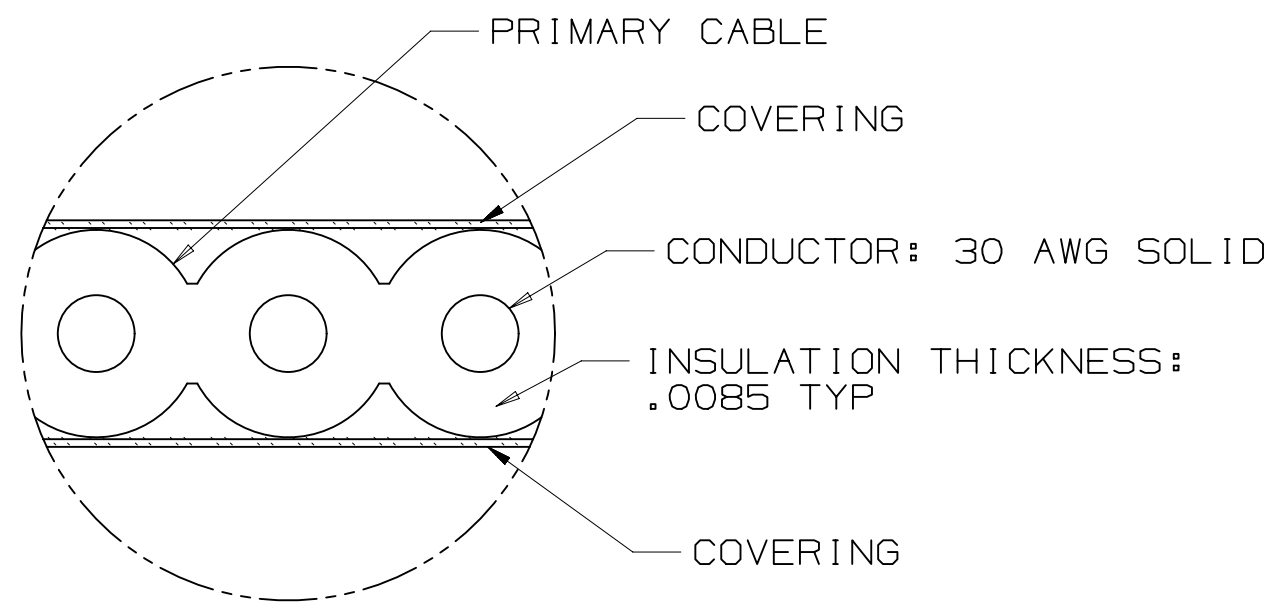
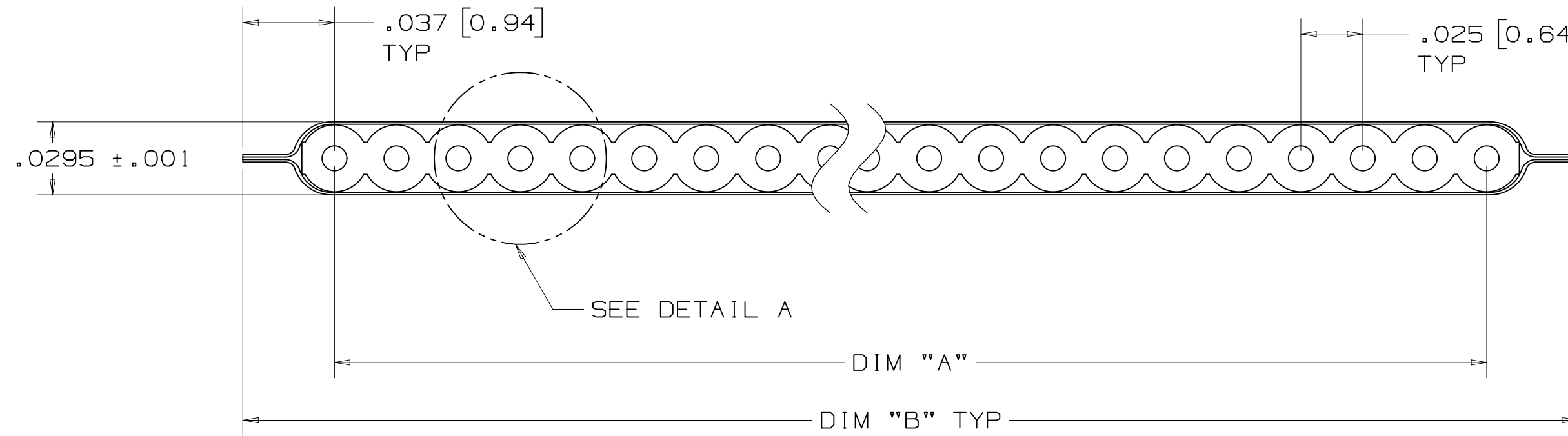


3M™ ROUND CONDUCTOR FLAT, CONTROLLED IMPEDANCE CABLE, 7700 SERIES

.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)

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INTERCONNECT SOLUTIONS
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UL
UL FILE NO: E42769

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

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

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
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
DRFT	L SCHMIDT	DATE AUG 23, 2016	MFG	DATE
CHKD	S CLATANOFF	DATE SEP 13, 2016	APPVL	DATE
3M		© 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.		
TITLE ROUND CONDUCTOR FLAT, CNTRL IMPEDANCE 7700 SERIES .025 CABLE				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
	C	78-5100-2667-3	C	
MODEL	DET. LISTS		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	SHT 1 OF 2

- ### 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.

78-5100-2667-3
DRAWING NUMBER
REVISION

3M™ ROUND CONDUCTOR FLAT, CONTROLLED IMPEDANCE CABLE, 7700 SERIES

.025" 30 AWG SOLID COVERED


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C	74293	JUN 14, 2017	SBC	FR
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DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
ACCESS CODES		DRFT	L SCHMIDT	DATE	AUG 23, 2016	MFG
		CHKD	S CLATANOFF	DATE	SEP 13, 2016	APPVL
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DO NOT SCALE DRAWING	SCALE 1/1	TOLERANCES EXCEPT AS NOTED INCHES .0 ± .1 .00 ± .02 .000 ± .005 .0000 ± .0002 MILLIMETERS 0 ± .0 ± .00 ± .000 ±		TITLE ROUND CONDUCTOR FLAT, CNTRL IMPEDANCE 7700 SERIES .025 CABLE		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MAX SURFACE ROUGHNESS 125 <input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY		CAGE NUMBER	SIZE	DRAWING NO.
		ANGLES ± 1°		C		78-5100-2667-3
				MODEL	DET. LISTS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
				SHT 2 OF 2		

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A