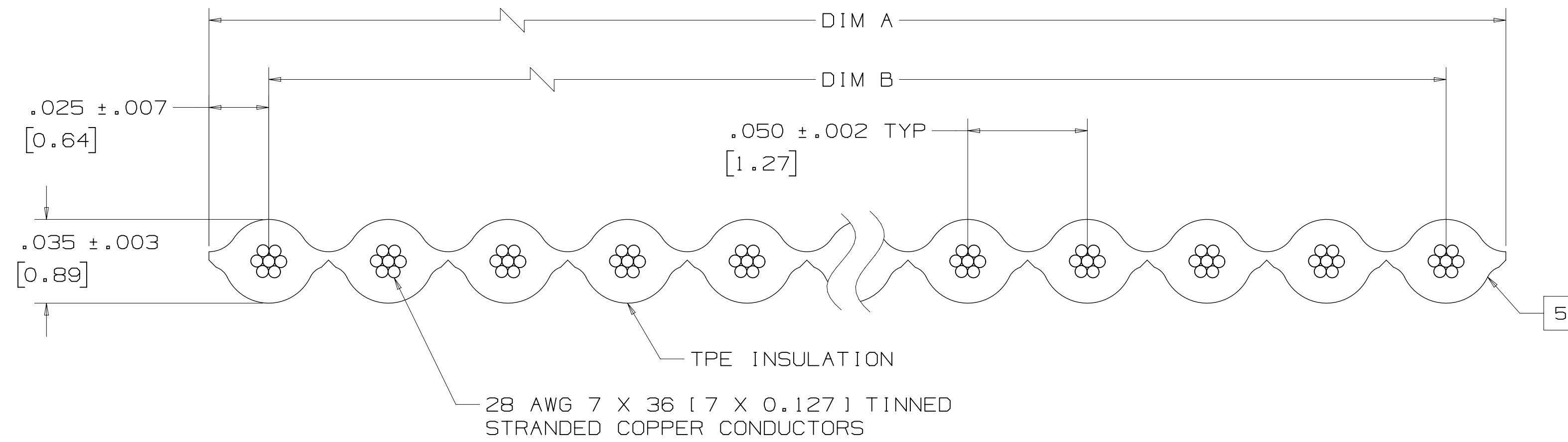


3M™ ROUND CONDUCTOR FLAT CABLE, 3355 SERIES  
 .050" 28 AWG STRANDED, TPE

- NOTES
- REGULATORY INFORMATION: FOR REGULATORY INFORMATION ABOUT THIS PRODUCT, VISIT [3m.com/regs](http://3m.com/regs) OR CONTACT YOUR 3M REPRESENTATIVE.  
 UL FILE NO: E42769.  
 STYLE NO: 20297
  - 28 AWG WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATIONS TO A BROAD LINE OF IDC CONNECTORS.
  - TPE INSULATION PROVIDES EXCELLENT TRANSMISSION PROPERTIES AT A LOW COST.
  - ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.
  - BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.



ORDERING INFORMATION  
 3355/XX XX

BLANK = STANDARD  
 SF = SPLICE FREE

NUMBER OF CONDUCTORS (SEE TABLE)

NOTE:  
 AVAILABLE IN STANDARD 100 FT [30 m] OR 300 FT [91 m] ROLLS.  
 PLEASE SPECIFY WHEN ORDERING. CONTACT 3M FOR AVAILABILITY  
 OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL  
 LENGTHS.

PHYSICAL :

INSULATION  
 MATERIAL: THERMOPLASTIC ELASTOMER, TPE (TPO TYPE)  
 COLOR: GRAY  
 MARKING  
 STANDARD: NONE

CONDUCTORS  
 MATERIAL: 28 AWG, 7 X 36 [7 X 0.127] TINNED STRANDED COPPER

ELECTRICAL :

VOLTAGE RATING: USA: 300V EU: <50V  
 INSULATION RESISTANCE: >1 X 10<sup>10</sup>Ω/10ft. [3m]

CHARACTERISTIC IMPEDANCE: UNBALANCED 117Ω  
 CAPACITANCE: 11.7 pF/ft [38.4 pF/m]  
 INDUCTANCE: 0.16 μH/ft [0.52 μH/m]  
 PROPAGATION DELAY: 1.37 ns/ft [4.49 ns/m]  
 VELOCITY OF PROPAGATION: 74%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.

ENVIRONMENTAL :

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

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIMENSION A	DIMENSION B
09	3355/09	0.450±.010 [11.43]	0.400±.007 [10.16]
10	3355/10	0.500±.010 [12.70]	0.450±.007 [11.43]
14	3355/14	0.700±.010 [17.78]	0.650±.007 [16.51]
15	3355/15	0.750±.010 [19.05]	0.700±.007 [17.78]
16	3355/16	0.800±.015 [20.32]	0.750±.011 [19.05]
18	3355/18	0.900±.015 [22.86]	0.850±.011 [21.59]
20	3355/20	1.000±.015 [25.40]	0.950±.011 [24.13]
24	3355/24	1.200±.015 [30.48]	1.150±.011 [29.21]
25	3355/25	1.250±.015 [31.75]	1.200±.011 [30.48]
26	3355/26	1.300±.015 [33.02]	1.250±.011 [31.75]
30	3355/30	1.500±.020 [38.10]	1.450±.015 [36.83]
34	3355/34	1.700±.020 [43.18]	1.650±.015 [41.91]
36	3355/36	1.800±.020 [45.72]	1.750±.015 [44.45]
37	3355/37	1.850±.020 [46.99]	1.800±.015 [45.72]
40	3355/40	2.000±.020 [50.80]	1.950±.015 [49.53]
50	3355/50	2.500±.020 [63.50]	2.450±.015 [62.23]
60	3355/60	3.000±.020 [76.20]	2.950±.015 [74.93]
64	3355/64	3.200±.020 [81.28]	3.150±.015 [80.01]



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

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 INFORMATION CALL 800-225-5373

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

DIMENSIONS: INCH [MM]

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		L	SCHMIDT	DEC 15, 2021		
DIVISION	DIVISION CODE	DATE	APPVL	DATE		
DO NOT SCALE DRAWING	SCALE 4/1	TOLERANCES EXCEPT AS NOTED				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	© 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 disclosed other than for 3M authorized purposes. All rights reserved.			
MAX SURFACE ROUGHNESS 125	ALL SURFACES MARKED ONLY	INCHES	TITLE: ROUND CONDUCTOR FLAT CABLE SERIES 3355 .050" 28AWG STRANDED			
			CAGE NUMBER	SIZE	DRAWING NO.	REV.
			D		78-5100-0317-7	F
			MODEL	DEF	1ST	YES
						NO
						SHT 1 OF 2

178-5100-0317-7  
 1/20/2022 -- UTC  
 08:58:11  
 1/20/2022 -- UTC  
 08:58:11

8 7 6 5 4 3 2 1  
**3M™ ROUND CONDUCTOR FLAT CABLE, 3355 SERIES**  
 .050" 28 AWG STRANDED, TPE

**Regulatory:** For regulatory information about this product, visit [3M.com/regs](http://3M.com/regs) or contact your 3M representative.

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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
				DRP		DATE	MFG		DATE
				CHKD		DATE	APPL		DATE
DIVISION		DIVISION CODE		© 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 disclosed other than for 3M authorized purposes. All rights reserved.					
DO NOT SCALE DRAWING	SCALE $\frac{4}{1}$	TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144					
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS		TITLE <b>ROUND CONDUCTOR FLAT CABLE SERIES 3355 .050" 28AWG STRANDED</b>					
MAX SURFACE ROUGHNESS 125	<input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY	ANGLES ±1°		CAGE NUMBER		SIZE	DRAWING NO.	REV.	
				D			78-5100-0317-7	F	
				MODEL		DET		SHT 2 OF 2	
						YES		NO	

78-5100-0317-7 DRAWING NUMBER  
 F REVISION  
 1/20/2022 -- UTC Dfn.set (hrs) 6