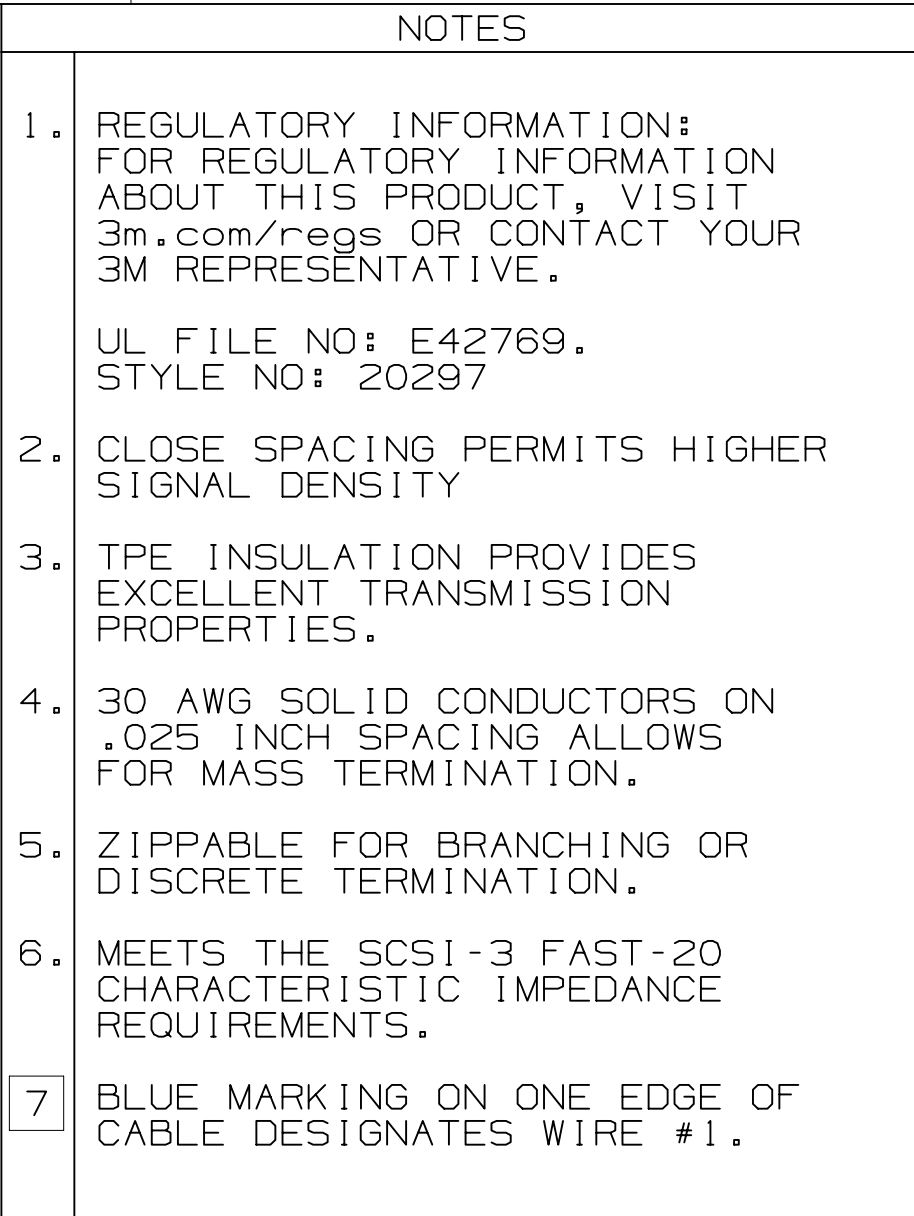


.025" 30 AWG SOLID, TPE



3749/XX XX

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 I			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIMENSION A	DIMENSION B
10	3749/10	0.250±.006 [6.35]	0.225±.004 [5.72]
12	3749/12	0.300±.006 [7.62]	0.275±.004 [6.99]
14	3749/14	0.350±.006 [8.89]	0.325±.004 [8.26]
16	3749/16	0.400±.006 [10.16]	0.375±.004 [9.53]
20	3749/20	0.500±.006 [12.70]	0.475±.004 [12.07]
24	3749/24	0.600±.006 [15.24]	0.575±.004 [14.61]
26	3749/26	0.650±.006 [16.51]	0.625±.004 [15.88]
30	3749/30	0.750±.009 [19.05]	0.725±.006 [18.42]
34	3749/34	0.850±.009 [21.59]	0.825±.006 [20.96]
36	3749/36	0.900±.009 [22.86]	0.875±.006 [22.23]
40	3749/40	1.000±.009 [25.40]	0.975±.006 [24.77]
50	3749/50	1.250±.009 [31.75]	1.225±.006 [31.12]
60	3749/60	1.500±.012 [38.10]	1.475±.009 [37.47]
68	3749/68	1.700±.012 [43.18]	1.675±.009 [42.55]
80	3749/80	2.000±.015 [50.80]	1.975±.011 [50.17]
100	3749/100	2.500±.015 [63.50]	2.475±.012 [62.87]

INSULATION
MATERIAL: THERMOPLASTIC ELASTOMER, TPE (TPO TYPE)
COLOR: GRAY
MARKING
STANDARD: NONE
CANADIAN: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS
MATERIAL: 30 AWG [Ø0.254] TINNED SOLID COPPER

VOLTAGE RATING: USA 150V CANADIAN 150V
INSULATION RESISTANCE: $>1 \times 10^{10} \Omega / 10^6 t$. [3m]

CHARACTERISTIC IMPEDANCE:	UNBALANCED
	90Ω
CAPACITANCE:	16.5 pF/ft [54.1 pF/m]
INDUCTANCE:	0.13 μH/ft [0.43 μH/m]
PROPAGATION DELAY:	1.48 ns/ft [4.86 ns/m]
VELOCITY OF PROPAGATION:	69%

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

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



CANADIAN OPTION
"PRINTING ILLUSTRATION"



AWM 20297 105C 150V HB 3M NU



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

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

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

DIMENSIONS: INCH [MM]

DIMENSIONS: INCH [MM]		G 0101481	JAN 04, 2022		LDS	TRP
		REDRAWN				
		WORK REQUEST 13221				
DIVISION REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION
<div> <div>DO NOT SCALE DRAWING</div> <div>SCALE $\frac{1}{1}$</div> </div>		<div> <div>TOLERANCES EXCEPT AS NOTED</div> <div>INCHES .0 ± .01 .00 ± .002 .000 ± .005 .0000 ± .0002</div> </div>		<div> <div>DATE DEC 14, 2021</div> <div>BY SCHMIDT</div> </div>	<div> <div>DATE JAN 04, 2022</div> <div>BY T FLEPYS</div> </div>	<div> <div>INFO</div> <div>DATE</div> </div>
DIVISION		DIVISION CODE		<div> <div>© 3M COPYRIGHT 2022</div> <div>This document and the information it contains are 3M property and may not be reproduced or further distributed without the written 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.</div> </div>		
<div> <div>THIRD ANGLE PROJECTION</div> <div>INTERPRET PER ASME Y14.5 - 2018</div> </div>		<div> <div>WILL METERS</div> <div>0 ±</div> <div>.00 ±</div> <div>.00 ±</div> <div>ANGI FS 1.0°</div> </div>		<div> <div>TITLE</div> <div>ROUND CONDUCTOR FLAT CABLE SERIES 3749 .025" 30AWG SOLID</div> </div>		
<div> <div>MAX SURFACE ROUGHNESS</div> <div>125 $\sqrt{1}$</div> <div><input type="checkbox"/> ALL SURFACES</div> <div><input checked="" type="checkbox"/> MARKED ONLY</div> </div>		<div> <div>CAGE NUMBER</div> <div>SIZE</div> <div>DRAWING NO.</div> <div>D</div> <div>78-5100-0068-6</div> </div>		<div> <div>REV.</div> <div>G</div> </div>		
		MODEL		<div> <div>DET.</div> <div>FLYES</div> <div><input checked="" type="checkbox"/> NO</div> <div>SHT</div> <div>1 OF</div> </div>		

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7

6

5

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3M™ ROUND CONDUCTOR FLAT CABLE, 3749 SERIES

.025" 30 AWG SOLID, TPE

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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

DRP

DATE

MFG

DATE

CHKD

DATE

APPRVL

DATE

L SCHMIDT

DEC 14,2021

T PLEPYS

JAN 04,2022

DIVISION

DIVISION CODE

DO NOT SCALE DRAWING

SCALE

TOLERANCES EXCEPT AS NOTED

INCHES

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MAX SURFACE ROUGHNESS

125

ALL SURFACES

MARKED ONLY

MILLIMETERS

ANGLES

±1°

3M

3M Center
St. Paul,
MN 55144

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TITLE

ROUND CONDUCTOR FLAT
CABLE SERIES 3749
.025" 30AWG SOLID

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

DET

LISTS

YES

NO

SHT 2 OF 2

78-5100-0068-6

DRAWING NUMBER

6

REVISION

6

Off-set (hrs)

6

UTC

1/20/2022

Time

Imaged: Central Standard

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[3749/26](#) [C3749/100](#) [C3749/20](#) [C3749/40](#) [C3749/60](#) [C3749/80](#) [3749/34](#) [C3749/10](#) [3749/24](#) [3749/16](#)