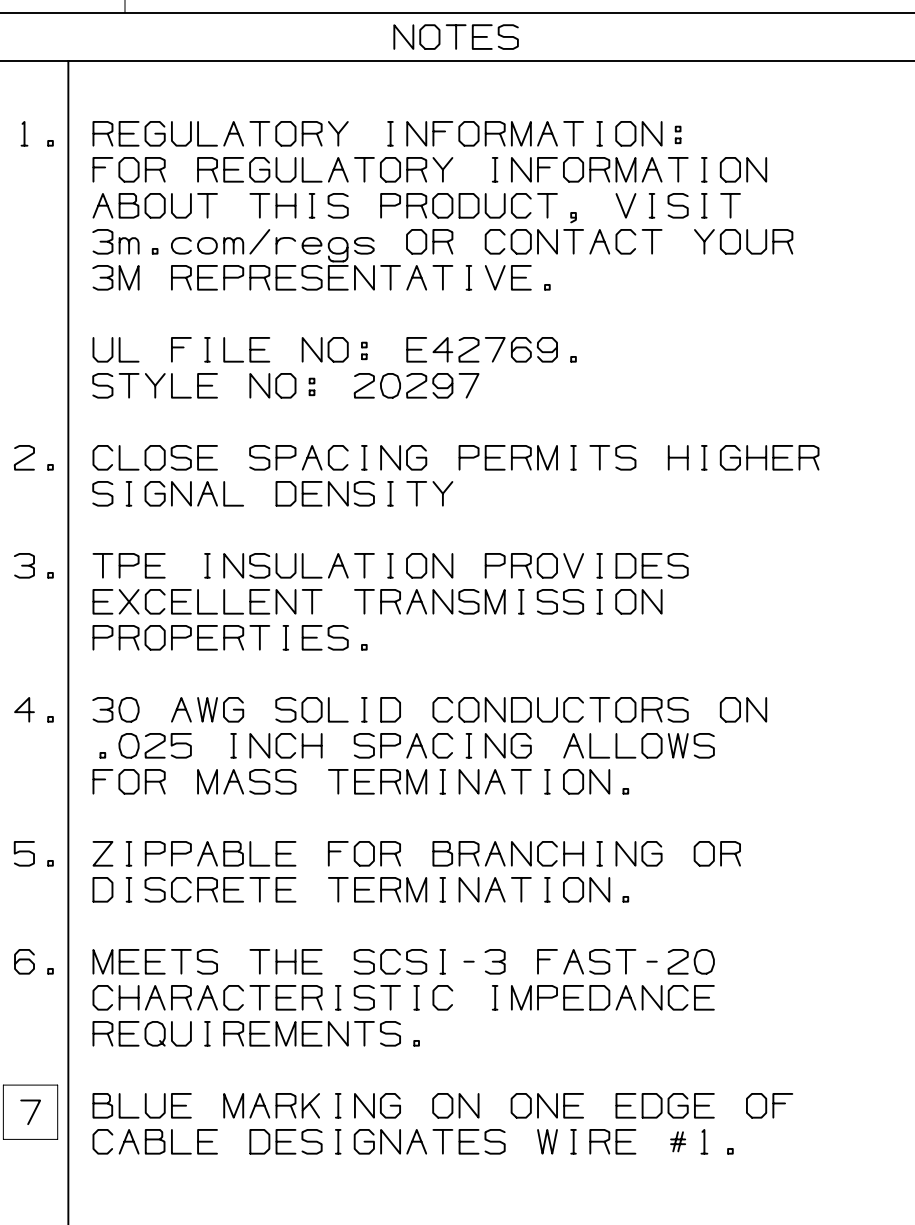


.025" 30 AWG SOLID, TPE



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.

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"



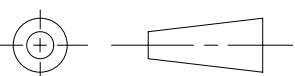
AWM 20297 105C 150V HB 3M NU

CV

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]		G 0101481		JAN 04, 2022		LDS		TRF	
				REDRAWN					
				WORK REQUEST 13221					
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ASSEMBLY CODES		DRAWN L SCHMIDT		DATE DEC 14, 2021	MFG		DATE		
		CHG'D T PLEPYS		DATE JAN 04, 2022	APPROV		DATE		
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2022					
DO NOT SCALE DRAWING		SCALE 4 1		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144 This document and the information it contains are 3M property and may not be reproduced or further distributed without the 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.			
THIRD ANGLE PROJECTION				INCHES .01 ± .01 .00 ± .02 .000 ± .005 .0000 ± .0002		TITLE			
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± 0 0 ± 0 0.00 ± 0 0.00 ± 0		ROUND CONDUCTOR FLAT CABLE SERIES 3749 .025 ^{vv} 30AWG SOLID					
MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY		ANGLES ± 1°		CASE NUMBER SIZE DRAWING NO. D 78-5100-0068-6		REV. G			
				MODEL DET. YES ☒ NO ☐		SHT 1 OF			

8

7

6

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4

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2

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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

DATE
DATE

APPRVL
DATE

DO NOT SCALE DRAWING

SCALE
4
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TOLERANCES EXCEPT AS NOTED

INCHES
±.1
±.02
±.005
±.0005
±.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 3749
.025" 30AWG SOLID

CAGE NUMBER
D78-5100-0068-6

SIZE
G

DRAWING NO.
78-5100-0068-6

REV.
G

MODEL
DET
LISTS
YES
NO
SHT 2 OF 2

6
Revision

78-5100-0068-6
Drawing Number

6
Off-set (hrs)

6
UTC

1/20/2022

Time

Imaged: Central Standard