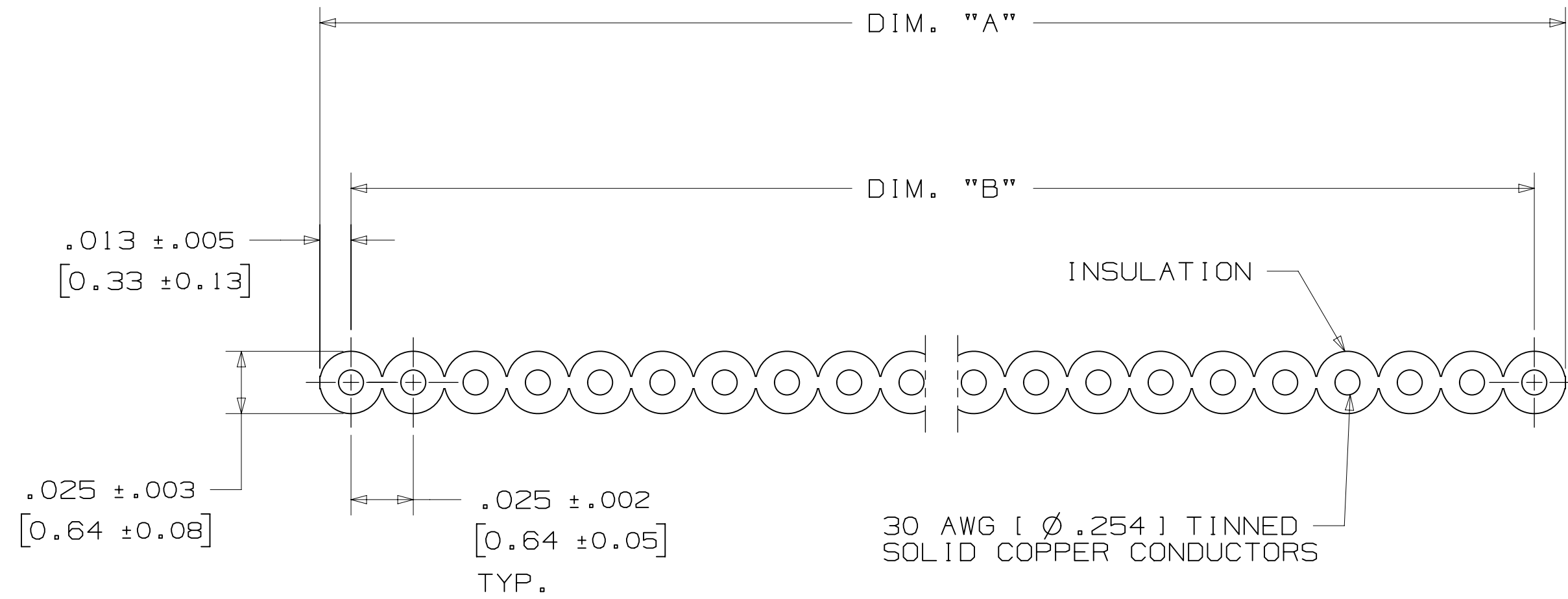


3M™ ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES

.025" 30 AWG SOLID



NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B"
10	HF447/10	.250±.006 [6.35]	.225±.004 [5.72]
12	HF447/12	.300±.006 [7.62]	.275±.004 [6.99]
14	HF447/14	.350±.006 [8.89]	.325±.004 [8.26]
16	HF447/16	.400±.006 [10.16]	.375±.004 [9.53]
20	HF447/20	.500±.006 [12.70]	.475±.004 [12.07]
26	HF447/26	.650±.006 [16.51]	.625±.004 [15.88]
30	HF447/30	.750±.006 [19.05]	.725±.004 [18.42]
34	HF447/34	.850±.009 [21.59]	.825±.006 [20.96]
36	HF447/36	.900±.009 [22.86]	.875±.006 [22.23]
40	HF447/40	1.000±.009 [25.40]	.975±.006 [24.77]
50	HF447/50	1.250±.009 [31.75]	1.225±.006 [31.12]
60	HF447/60	1.500±.012 [38.10]	1.475±.009 [37.47]
68	HF447/68	1.700±.012 [43.18]	1.675±.009 [42.55]
80	HF447/80	2.000±.015 [50.80]	1.975±.011 [50.17]
100	HF447/100	2.500±.015 [63.50]	2.475±.012 [62.87]

ASSESSMENT HALOGENS (CHLORINE, BROMINE & FLUORINE)	IEC62821-1, 62821-2 AND 60684-2
DETERMINATION OF THE HALOGEN ACID GAS CONTENT	IEC 60754-1:2011, BS EN60754-1:2014
DETERMINATION OF ACIDITY (BY pH MEASUREMENT) AND CONDUCTIVITY	IEC 60754-2

UL LOW SMOKE HALOGEN FREE (LSHF) WIRE AND CABLE MARK COVERED UNDER IEC 62821-1,2,3 SERIES-UL 2885 HARMONIZED TO EU, INTERNATIONAL STANDARDS.

- NOTES
- REGULATORY INFORMATION: VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
UL FILE: E42769
STYLE: 22088
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 - UL HAS TESTED THE INSULATION MATERIAL UNDER UL2885 AND DETERMINED THEM TO BE HALOGEN FREE. THE UL REFERENCE FILE NUMBER IS E118773. PLEASE SEE TABLE 2 FOR THE EQUIVALENT IEC TEST STANDARDS.
 - UL HAS TESTED THE COMPLETE CABLE UNDER IEC 61034-2 FOR LOW SMOKE CHARACTERISTICS. THE UL REFERENCE FILE NUMBER IS E42769. THE SMOKE TEST OF IEC 61034-2.

ORDERING INFORMATION

HF447/XX-XX

NUMBER OF CONDUCTORS (SEE TABLE 1)

BLANK = STANDARD
SF = SPLICE FREE

NOTE: AVAILABLE IN STANDARD LENGTHS OF 100 ft AND 300 ft PER ROLL, PLEASE SPECIFY WHEN ORDERING. CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.

2 PHYSICAL :

INSULATION: LSHF EVA/PO
MATERIAL: LSHF EVA/PO
COLOR: DARK GRAY
MARKING: NONE
STANDARD: SEE "PRINTING ILLUSTRATION" VIEW
CANADIAN: SEE "PRINTING ILLUSTRATION" VIEW
PRIMARY CABLE: BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE NUMBER 1.

CONDUCTORS: 30 AWG (Ø .254) TINNED SOLID COPPER

2 ELECTRICAL :

VOLTAGE RATING: USA 150V CANADIAN 150V EU: <50V
INSULATION RESISTANCE: (PRIMARY CABLE) >1 x 10⁹Ω/10ft. [3m]

CHARACTERISTIC IMPEDANCE:	UNBALANCED 80Ω	BALANCED 134Ω
CAPACITANCE:	19.68 pF/ft [64.6 pF/m]	11.2 pF/ft [36.5 pF/m]
INDUCTANCE:	.13μH/ft [.43μH/m]	.2μH/ft [.66μH/m]
PROPAGATION DELAY:	1.57 ns/ft [5.15 ns/m]	1.49 ns/ft [4.89 ns/m]
VELOCITY OF PROPAGATION:	65%	65%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS. BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR.

2 ENVIRONMENTAL :

TEMPERATURE RATING: -40°C TO 90°C
FLAMMABILITY RATING: UL: HORIZONTAL

CANADIAN OPTION
"PRINTING ILLUSTRATION"



AWM 22088 90C 150V LSHF 3M NU



AWM 1A 90C 150V FT2 EU <50V

INCH [MM]		
TOLERANCE - UNLESS NOTED		
[INCH]	±.1	±.01
[]	= DIM. FOR REFERENCE ONLY	

72311 MAR 28, 2017 REDRAWN TO NEW FORMAT WITH DATA CHANGES JNC WL

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				FEB 21, 2017		
				FEB 21, 2017		

DO NOT SCALE DRAWING
 THIRD ANGLE PROJECTION
 MAX SURFACE ROUGHNESS
 INTERPRET PER ASME Y14.5 - 2009
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 ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES
 CAGE NUMBER: D78-5100-2343-1
 MODEL: HF447

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INTERCONNECT SOLUTIONS
<http://www.3mconnectors.com>

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INFORMATION CALL 800-225-5373

78-5100-2343-1
DRAWING NUMBER
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A 4/12/2017

3M™ ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES
 .025" 30 AWG SOLID


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DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
C 72311		MAR 28, 2017				JNC	WL	
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THIRD ANGLE PROJECTION		INCHES .00 ± .000 ± .0000 ±		MILLIMETERS 0 ± .00 ± .000 ±		CAGE NUMBER D 78-5100-2343-1 C MODEL HF447		
MAX SURFACE ROUGHNESS		SURFACES .00 ± .000 ±		INTERPRET PER ASME Y14.5 - 2009		DET <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 2 OF 2		
<input checked="" type="checkbox"/> MARKED ONLY		ANGLES ±		DIVISION CODE EMSD		CAGE SIZE DRAWING NO. REV. NUMBER D 78-5100-2343-1 C		

78-5100-2343-1 DRAWING NUMBER
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