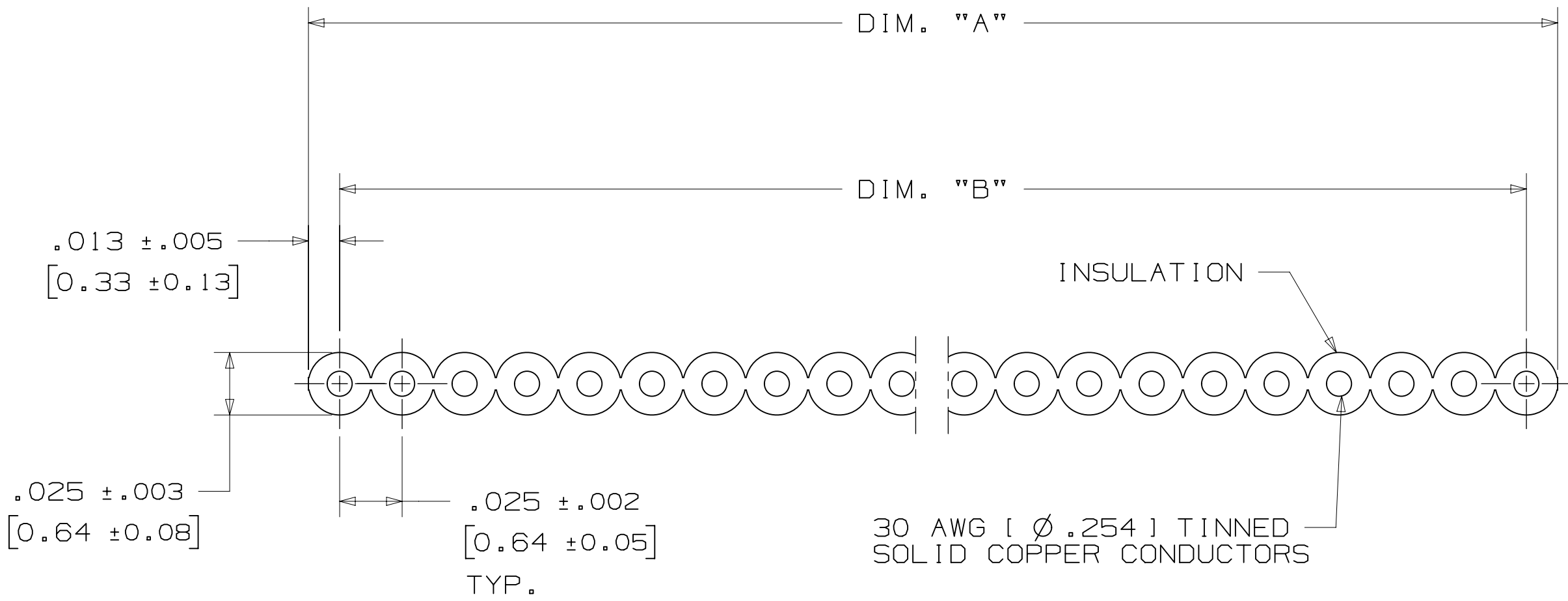


3M™ ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES

.025" 30 AWG SOLID



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

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

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

TABLE 1			
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]

TABLE 2	
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.

INCH [MM]		
TOLERANCE - UNLESS NOTED		
	X.	.XX
[INCH]	±.1	±.01
[] = DIM. FOR REFERENCE ONLY	±.005	

DESIGN REFERENCE	NEXT ASSEMBLY
REV. ECO	ISSUE DATE AND DESCRIPTION
DRW. CASTIGLIONE	DATE FEB 21, 2017
DRW. R. YANG	DATE FEB 21, 2017
DIVISION	DIVISION CODE
DO NOT SCALE DRAWING	EMSD
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED
MAX. SURFACE ROUGHNESS	INTERPRET PER ASME Y14.5 - 2009
MARKED SURFACES	ONLY

C 72311	MAR 28, 2017	JNC	WL
REDRAWN TO NEW FORMAT WITH DATA CHANGES			
REV. ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DRW. CASTIGLIONE	DATE FEB 21, 2017	DRW. R. YANG	DATE FEB 21, 2017
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TITLE			
ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES			
CAGE NUMBER	SIZE	DRAWING NO.	REV.
D	78-5100-2343-1	C	
MODEL	HF447	DET	ISTS
YES X NO			
SHT 1 OF 2			

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
XREF CODES				DRP	CASTIGLIONE		DATE	MFG	
				CHKD	R. YANG		DATE	FEB 21,2017	
DIVISION		DIVISION CODE		APPR	R. EDWARDS		DATE	FEB 21,2017	
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DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		TITLE			
				INCHES		ROUND CONDUCTOR FLAT LSHF CABLE, HF447 SERIES			
THIRD ANGLE PROJECTION		INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER			
MAX SURFACE ROUGHNESS		MARKED SURFACES		ANGLES		DRAWING NO.			
						REV.			
						MODEL			
						HF447			
						DET			
						LISTS			
						YES			
						NO			
						SHT			
						2 OF 2			