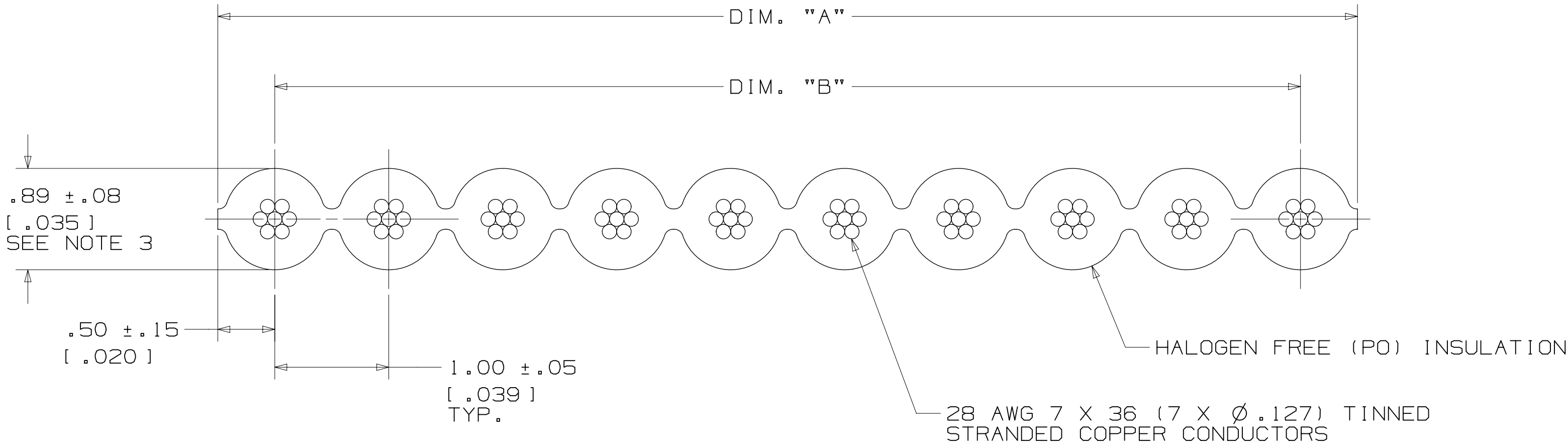


3M™ ROUND CONDUCTOR FLAT CABLE, HF625 SERIES
1MM, 28 AWG STRANDED, HALOGEN FREE PO



- * LOW SMOKE ZERO HALOGEN (LSZH). INSULATION ADVANTAGES OF LSZH INSULATION ARE THE LOW SMOKE (IEC 61034-2-2005) AND LOW TOXICITY OF COMBUSTION GASES (NF X 70-100-2:2006), REDUCING THE RISK TO FIREFIGHTERS AND REDUCING THE SOOT AND CORROSION DAMAGE TO NEARBY EQUIPMENT.
- * 28 AWG STRANDED CONDUCTORS ON 1MM PITCH PERMITS MASS TERMINATIONS TO A BROAD LINE OF METRIC IDC CONNECTORS.
- * ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATIONS.

1. 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.
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
3. BLUE MARKING ON ONE EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIMENSION A	DIMENSION B
06	HF625/06	6.00±.20 [.236]	5.00±.18 [.197]
08	HF625/08	8.00±.20 [.315]	7.00±.18 [.276]
10	HF625/10	10.00±.20 [.394]	9.00±.18 [.354]
12	HF625/12	12.00±.20 [.472]	11.00±.18 [.433]
14	HF625/14	14.00±.20 [.551]	13.00±.18 [.512]
16	HF625/16	16.00±.22 [.630]	15.00±.20 [.591]
18	HF625/18	18.00±.22 [.709]	17.00±.20 [.669]
20	HF625/20	20.00±.22 [.787]	19.00±.20 [.748]
22	HF625/22	22.00±.22 [.866]	21.00±.20 [.827]
24	HF625/24	24.00±.22 [.945]	23.00±.20 [.906]
26	HF625/26	26.00±.22 [1.024]	25.00±.20 [.984]
28	HF625/28	28.00±.22 [1.102]	27.00±.20 [1.063]
30	HF625/30	30.00±.25 [1.181]	29.00±.23 [1.142]
32	HF625/32	32.00±.25 [1.260]	31.00±.23 [1.220]
34	HF625/34	34.00±.25 [1.339]	33.00±.23 [1.299]
36	HF625/36	36.00±.25 [1.417]	35.00±.23 [1.378]
38	HF625/38	38.00±.25 [1.496]	37.00±.23 [1.457]
40	HF625/40	40.00±.25 [1.575]	39.00±.23 [1.535]
42	HF625/42	42.00±.25 [1.654]	41.00±.23 [1.614]
44	HF625/44	44.00±.25 [1.732]	43.00±.23 [1.693]
46	HF625/46	46.00±.25 [1.811]	45.00±.23 [1.772]
48	HF625/48	48.00±.25 [1.890]	47.00±.23 [1.850]
50	HF625/50	50.00±.25 [1.969]	49.00±.23 [1.929]

2 PHYSICAL :

INSULATION MATERIAL: HALOGEN FREE POLYOLEFIN (PO)
COLOR: DARK GRAY

MARKING: NONE
STANDARD: NONE
CONDUCTORS: 28 AWG, 7 X 36 AWG [7 X Ø .127] TINNED STRANDED COPPER

2 ELECTRICAL :

VOLTAGE RATING: USA 300V CANADIAN 150V EU: <50V
INSULATION RESISTANCE: >1 X 10¹⁰Ω/3m [10 FT.]

CHARACTERISTIC IMPEDANCE: UNBALANCED 85Ω BALANCED 144Ω
CAPACITANCE: 60.5 pF/ft [18.44 pF/m] 33.8 pF/ft [10.29 pF/m]
INDUCTANCE: .43μH/ft [.13μH/m] .69μH/ft [.21μH/m]
PROPAGATION DELAY: 5.15 ns/ft [1.57 ns/m] 4.86 ns/ft [1.48 ns/m]
VELOCITY OF PROPAGATION: 65% 69%

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

2 ENVIRONMENTAL :

TEMPERATURE RATING: -40°C TO +105°C (EIA-364-32G, METHOD A, TEST CONDITION 2)
-10°C TO +90°C (UL TEMPERATURÊ RATING)

FLAMMABILITY RATING: UL: HORIZONTAL

ORDERING INFORMATION

HF625/XX XX

NUMBER OF CONDUCTORS — BLANK = STANDARD
(SEE TABLE 1) SF = SPLICE FREE

NOTE:
AVAILABLE IN STANDARD 30M AND 100M ROLLS.
PLEASE SPECIFY WHEN ORDEING. CONTACT 3M
FOR AVAILABILITY OF ADDITIONAL CONDUCTOR
COUNTS AND/OR CUSTOM ROLL LENGTHS.

HALOGEN FREE IS DEFINED AS BOTH 1) NO HALOGEN COMPOUNDS THAT ARE INTENTIONALLY ADDED TO THE PRODUCT OR USED IN THE MANUFACTURING PROCESS FOR THE PRODUCT AND 2) ANY IMPURITIES PRESENT ARE LESS THAN 900ppm BROMINE, LESS THAN 900ppm CHLORINE AND/OR LESS THAN 1500ppm TOTAL BROMINE AND CHLORINE. THE LATTER ARE THE LEVELS SET FORTH IN CERTIAN INDUSTRY STANDARDS FOR PRINTED CIRCUIT BOARDS, SUCH AS THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) 61249-2-21 STANDARDS. THIS INFORMATION REPRESENTS 3M'S KNOWLEDGE AND BELIEF WHICH MAY BE BASED IN WHOLE OR IN PART ON INFORMATION PROVIDED BY 3RD PARTY SUPPLIERS TO 3M.

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
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UL FILE NO: E42769
STYLE NO: 22089

MM [INCH]		
TOLERANCE - UNLESS NOTED		
	.X	.XX
MM	±.3	±.13
[] = DIM. FOR REFERENCE ONLY		

DESIGN REFERENCE	NEXT ASSEMBLY	D 79845	JUL 17, 2018	JNC	BM
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
DATE	DATE	DATE	DATE	DATE	DATE
JUL 17, 2018	JUL 17, 2018	JUL 17, 2018	JUL 17, 2018	JUL 17, 2018	JUL 17, 2018
CHKD	CHKD	APPR	DATE	DATE	DATE
		B. MIZE			
DIVISION	DIVISION CODE	© 3M COPYRIGHT 2018			
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MAX SURFACE ROUGHNESS	INCHES	TITLE			
0.00 ±	0.00 ±	HF625 ROUND CONDUCTOR			
0.00 ±	0.00 ±	FLAT CABLE, 1MM,			
0.00 ±	0.00 ±	28AWG STRANDED			
0.00 ±	0.00 ±	CAGE NUMBER			
0.00 ±	0.00 ±	D 78-5100-2338-1			
0.00 ±	0.00 ±	DRAWING NO.			
0.00 ±	0.00 ±	REV.			
0.00 ±	0.00 ±	D			
0.00 ±	0.00 ±	MODEL			
0.00 ±	0.00 ±	HF625			
0.00 ±	0.00 ±	DET			
0.00 ±	0.00 ±	LISTS			
0.00 ±	0.00 ±	YES			
0.00 ±	0.00 ±	NO			
0.00 ±	0.00 ±	SHT 1 OF 2			

3M™ ROUND CONDUCTOR FLAT CABLE, HF625 SERIES

1MM, 28 AWG STRANDED, HALOGEN FREE PO

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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Austin, TX 78726-9000
1-800-225-5373
www.3M.com/interconnect

JUL 17 2018		JNC	BM
REVISED & REDRAWN			
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ISSUE DATE AND DESCRIPTION		DRFT	CHKD
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MFG			
DATE		APPR.	DATE JUL 17, 2018
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DIVISION		DIVISION CODE	
EMSD			
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		INCHES	
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS	
MAX. SURFACE ROUGHNESS		CAGE NUMBER	
MIN. SURFACES		SIZE DRAWING NO.	
MARKED ONLY		D 78-5100-2338-1	
ANGLE		REV. D	
MODEL		DET. LISTS	
HF625		YES NO	
		SHT 2 OF 2	