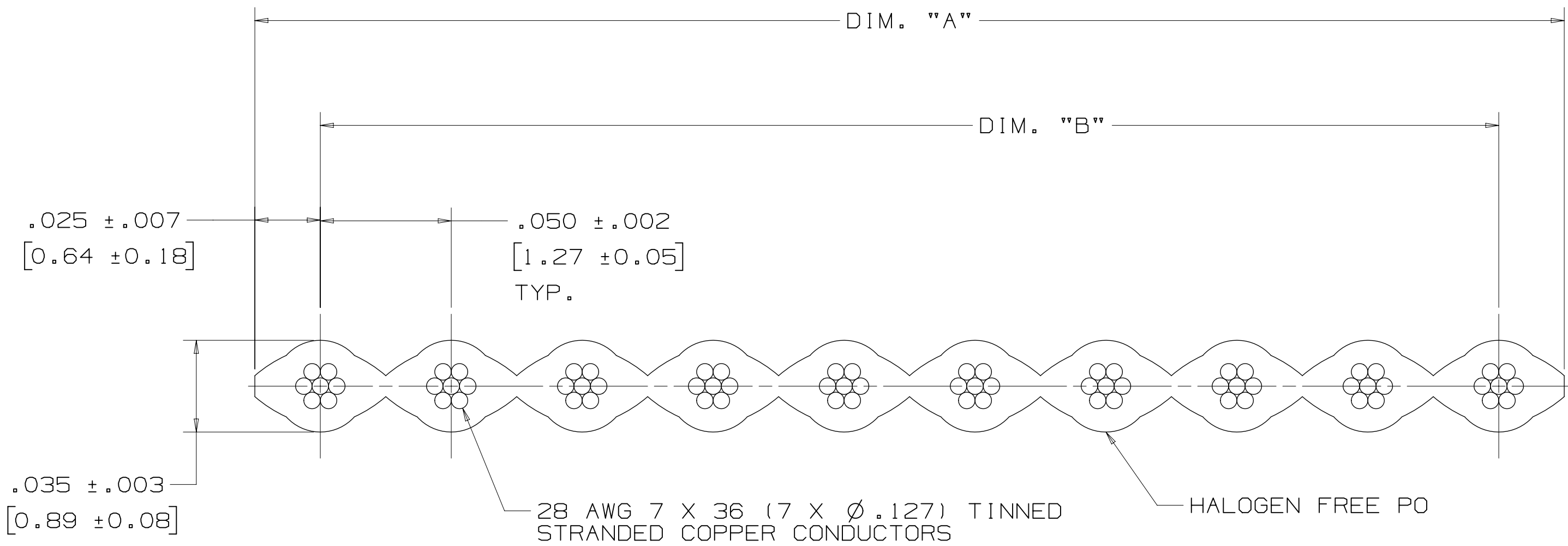


3M™ ROUND CONDUCTOR FLAT CABLE, HF365 SERIES
.050" 28 AWG STRANDED, HALOGEN FREE PO



NOTE:
BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1.

2 PHYSICAL :

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

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

2 ELECTRICAL :

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

CHARACTERISTIC IMPEDANCE:	UNBALANCED 100Ω	BALANCED 168Ω
	CAPACITANCE: 15.0 pF/ft [49.2 pF/m]	8.4 pF/ft [27.7 pF/m]
INDUCTANCE:	.15μH/ft [.49μH/m]	.24μH/ft [.79μH/m]
	PROPAGATION DELAY: 1.51 ns/ft [4.95 ns/m]	1.42 ns/ft [4.66 ns/m]
VELOCITY OF PROPAGATION:	68%	72%

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 +105°C (UL TEMPERATUE RATING)

FLAMMABILITY RATING: UL: HORIZONTAL

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
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UL FILE NO: E42769
STYLE NO: 21682

INCH [MM]			
TOLERANCE - UNLESS NOTED			
	.X	.XX	.XXX
INCH	±.1	±.01	±.005
[MM]	±2	±.3	±.13
[] = DIM. FOR REFERENCE ONLY			

- * 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 WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BROAD LINE OF IDC CONNECTORS.
- * ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.

TABLE 1			
NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B"
04	HF365/04	.200+/- .010 [5.08]	.150+/- .007 [3.81]
06	HF365/06	.300+/- .010 [7.62]	.250+/- .007 [6.35]
08	HF365/08	.400+/- .010 [10.16]	.350+/- .007 [8.89]
09	HF365/09	.450+/- .010 [11.43]	.400+/- .007 [10.16]
10	HF365/10	.500+/- .010 [12.70]	.450+/- .007 [11.43]
11	HF365/11	.550+/- .010 [13.97]	.500+/- .007 [12.70]
12	HF365/12	.600+/- .010 [15.24]	.550+/- .007 [13.97]
14	HF365/14	.700+/- .010 [17.78]	.650+/- .007 [16.51]
15	HF365/15	.750+/- .010 [19.05]	.700+/- .007 [17.78]
16	HF365/16	.800+/- .015 [20.32]	.750+/- .011 [19.05]
18	HF365/18	.900+/- .015 [22.88]	.850+/- .011 [21.59]
20	HF365/20	1.000+/- .015 [25.40]	.950+/- .011 [24.13]
24	HF365/24	1.200+/- .015 [30.48]	1.150+/- .011 [29.21]
25	HF365/25	1.250+/- .015 [31.75]	1.200+/- .011 [30.48]
26	HF365/26	1.300+/- .015 [33.02]	1.250+/- .011 [31.75]
30	HF365/30	1.500+/- .020 [38.10]	1.450+/- .015 [36.83]
34	HF365/34	1.700+/- .020 [43.18]	1.650+/- .015 [41.91]
36	HF365/36	1.800+/- .020 [45.72]	1.750+/- .015 [44.45]
37	HF365/37	1.850+/- .020 [46.99]	1.800+/- .015 [45.72]
40	HF365/40	2.000+/- .020 [50.80]	1.950+/- .015 [49.53]
44	HF365/44	2.200+/- .020 [55.88]	2.150+/- .015 [54.61]
50	HF365/50	2.500+/- .020 [63.50]	2.450+/- .015 [62.23]
60	HF365/60	3.000+/- .020 [76.20]	2.950+/- .015 [74.93]
64	HF365/64	3.200+/- .020 [81.28]	3.150+/- .015 [80.01]

ORDERING INFORMATION

HF365/XX XX

BLANK= STANDARD
SF= SPLICE FREE

No. OF CONDUCTORS:
(SEE TABLE 1)

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

DESIGN REFERENCE		NEXT ASSEMBLY		C	79052	MAY 25, 2018		JNC	BM
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DIVISION		DIVISION CODE		DATE		DATE	
		EMSD		MAY 25,2018		MAY 25,2018	
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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± .0 .00 ± .000 ±		TITLE ROUND CONDUCTOR FLAT CABLE, .050", 28AWG STRANDED, HAL-FREE			
MAX SURFACE ROUGHNESS	DTX SURFACES	CAGE NUMBER	SIZE	DRAWING NO.	REV.		
<input checked="" type="checkbox"/> MARKED ONLY		D		78-5100-2334-0	C		
		MODEL	HF365		DET	LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 2 OF 2	

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