3M™ ROUND CONDUCTOR FLAT CABLE, HF365 SERIES .050" 28 AWG STRANDED, HALOGEN FREE PO -DIM. "B" .025 ±.007 .050 ±.002 $[0.64 \pm 0.18]$ $[1.27 \pm 0.05]$ TYP. .035 ±.003-— HALOGEN FREE PO -28 AWG 7 X 36 (7 X Ø .127) TINNED [80.0± e8.0] STRANDED COPPER CONDUCTORS BLUE MARKING ON ONE EDGE OF CABLE DESIGNATES WIRE #1. 2 PHYSICAL: JACKET MATERIAL: HALOGEN FREE POLYOLEFIN (PO) COLOR: DARK GRAY MARK ING: STANDARD: NONE CONDUCTORS: 28 AWG 7 X 36AWG [7 X \emptyset .127] TINNED STRANDED COPPER VOLTAGE RATING: USA 300V CANADIAN 150V EU: <50V INSULATION RESISTANCE: >1 X 1010Ω/10ft. [3m] UNBALANCED BALANCED CHARACTERISTIC IMPEDANCE: 100Ω 15.0 pF/ft [49.2 pF/m] CAPACITANCE: 8.4 pF/ft [27.7 pF/m] INDUCTANCE: $.15\mu$ H/ft [$.49\mu$ H/m] .24 \(\mu\)H/ft [.79 \(\mu\)H/m] PROPAGATION DELAY: 1.51 ns/ft [4.95 ns/m] 1.42 ns/ft [4.66 ns/m] VELOCITY OF PROPAGATION: 68% 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 HALOGN 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 INFORMÁTION 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 http://www.3Mconnectors.com 3M IS A TRADEMARK OF 3M COMPANY. FOR TECHNICAL, SALES OR ORDERING INFORMATION CÁLL 800-225-5373

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- * 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. VVAVV	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]
1 1	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]

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.

NOTES

IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.

ORDERING INFORMATION HF365/XX XX

BLANK = STANDARD SF = SPLICE FREE

-No. OF CONDUCTORS: (SEE TABLE 1)

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



C 79052

MAY 25,2018

REVISED AND REDRAWN

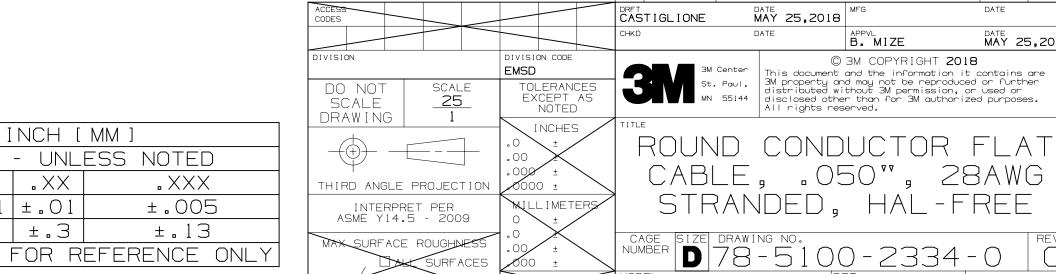
ISSUE DATE AND DESCRIPTION

JNC BM

DRFT CHKD

MAY 25,2018

LISTS DYES NO SHT 1 OF 2



DESIGN REFERENCE NEXT ASSEMBLY

UL FILE NO: E42769 STYLE NO: 21682

TOLERANCE - UNLESS NOTED \mathbb{X} ±2 ±.3 [] = DIM. FOR REFERENCE ONLY





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