

# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, Halogen Free PO

HF365 Series



- 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
- Broad operating temperature range from -40°C to 105°C
- 28 AWG wire on .050 inch centers permits mass termination to broad line of IDC connectors
- Zippable for branching or discrete terminations
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: December 3, 2010

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## Physical

**Jacket Material:** Halogen Free Polyolefin (PO)

Color: Dark Gray

**Marking:**

Standard: None

**Conductors:** 28 AWG, 7 × 36 AWG [ 7 × Ø 0.127 ] Tinned Stranded Copper

## Electrical

**Voltage Rating:** USA: 300V      Canada: 150V      EU: <50V

**Insulation Resistance:**  $> 1 \times 10^{10} \Omega/10 \text{ ft. [ 3 m ]}$

<b>Characteristic Impedance:</b>	<b>Unbalanced</b>	<b>Balanced</b>
	100 $\Omega$	168 $\Omega$

<b>Capacitance:</b>	15.0 pF/ft [ 49.2 pF/m ]	8.4 pF/ft [ 27.7 pF/m ]
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<b>Inductance:</b>	0.15 $\mu\text{H}/\text{ft}$ [ 0.49 $\mu\text{H}/\text{m}$ ]	0.24 $\mu\text{H}/\text{ft}$ [ 0.79 $\mu\text{H}/\text{m}$ ]
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<b>Propagation Delay:</b>	1.51 ns/ft [ 4.95 ns/m ]	1.42 ns/ft [ 4.66 ns/m ]
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<b>Velocity of Propagation:</b>	68%	72%
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Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between conductors within a pair.

## Environmental

**Temperature Rating:** -40°C to +105°C

**Flammability Rating:** UL: Horizontal

UL File No.: E42769, Style No.: 21682

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 900 ppm bromine, less than 900 ppm chlorine and/or less than 1500ppm total bromine and chlorine. The latter are the levels set forth in certain industry standards for printed circuit boards, such as the International Electrotechnical Commission (IEC) 61249-2-21 standard. 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.

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HF365 Series



Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A	Dimension B
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 [12.7]
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 ]	0.950 ± .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	2.20 +/- .020 [55.88]	2.15 +/- .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 ]



**Notes:**

- 1. Blue marking on one edge of cable designates wire #1.

## Ordering Information

**HF365/XX XX**

Number of Conductors  
(See Table)

Blank = Standard  
SF = Splice Free

**Note:**

Available in standard 100 ft and 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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#### Как с нами связаться

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