

# 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

TS-2334-B  
Sheet 1 of 2

## 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 ]
---------------------	--------------------------	-------------------------

<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 $\mu\text{H}/\text{m}$ ]
--------------------	--------------------------------------------------------------	--------------------------------------------------------------

<b>Propagation Delay:</b>	1.51 ns/ft [ 4.95 ns/m ]	1.42 ns/ft [ 4.66 ns/m ]
---------------------------	--------------------------	--------------------------

<b>Velocity of Propagation:</b>	68%	72%
---------------------------------	-----	-----

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.

# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, Halogen Free PO

HF365 Series

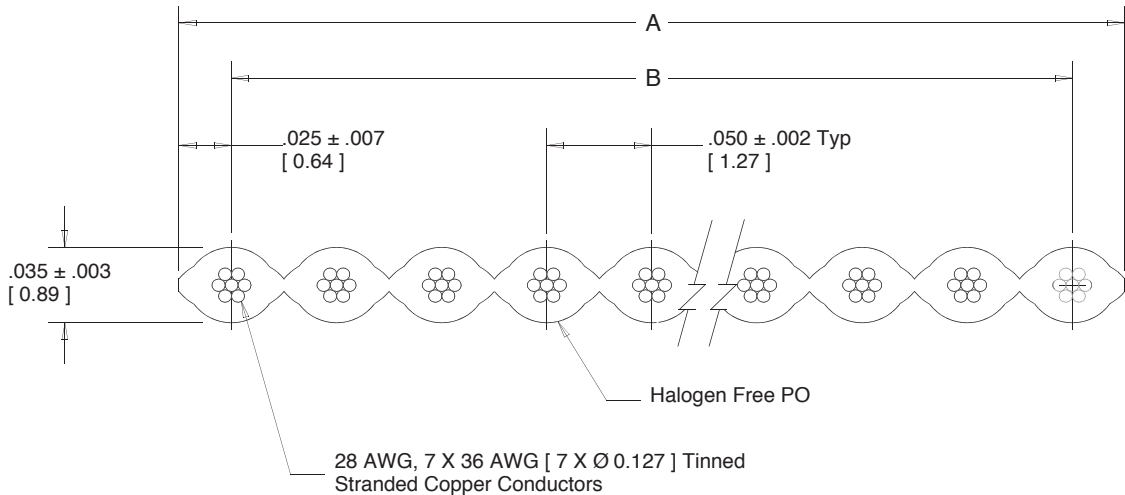


Inch  
[mm]

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.

TS-2334-B  
Sheet 2 of 2

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

**Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnector.com](http://www.3Mconnector.com)

Please recycle. Printed in USA.  
© 3M 2010. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А