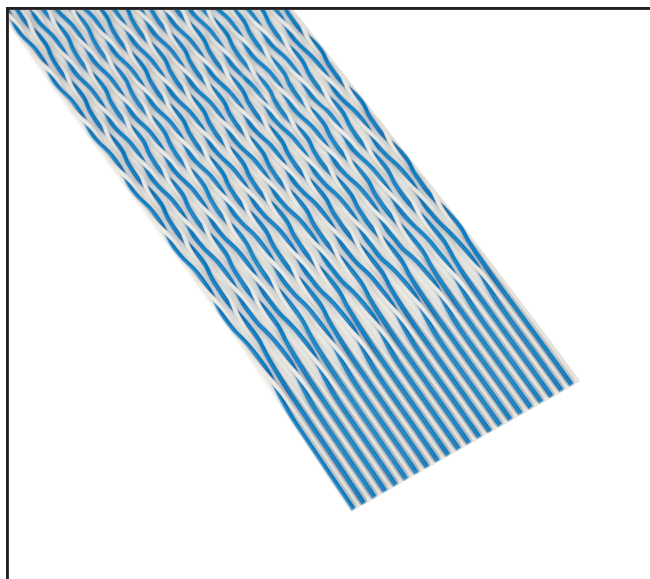


3M™ Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminable, Halogen Free PO

HF100 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
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: June 19, 2012

TS-2344-C
Sheet 1 of 2

Physical

Insulation:

Material: Halogen-Free Polyolefin (PO)

Color: Blue / White Pairs

Marking:

Standard: None

Canadian Option:  AWM 21008 105°C 150V HOR  AWM 1A 105°C 150V FT2 EU<50V

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

Electrical

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

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

	Unbalanced	Balanced
Characteristic Impedance:	102 Ω	119 Ω
Capacitance:	16.9 pF/ft [55.4 pF/m]	14.6 pF/ft [47.9 pF/m]
Inductance:	0.18 $\mu\text{H}/\text{ft}$ [0.59 $\mu\text{H}/\text{m}$]	0.21 $\mu\text{H}/\text{m}$ [0.69 $\mu\text{H}/\text{m}$]
Propagation Delay:	1.74 ns/ft [5.71 ns/m]	1.73 ns/ft [5.68 ns/m]
Velocity of Propagation:	58%	59%

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

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 1500 ppm 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.

UL File No. :E42769, Style No: 21008

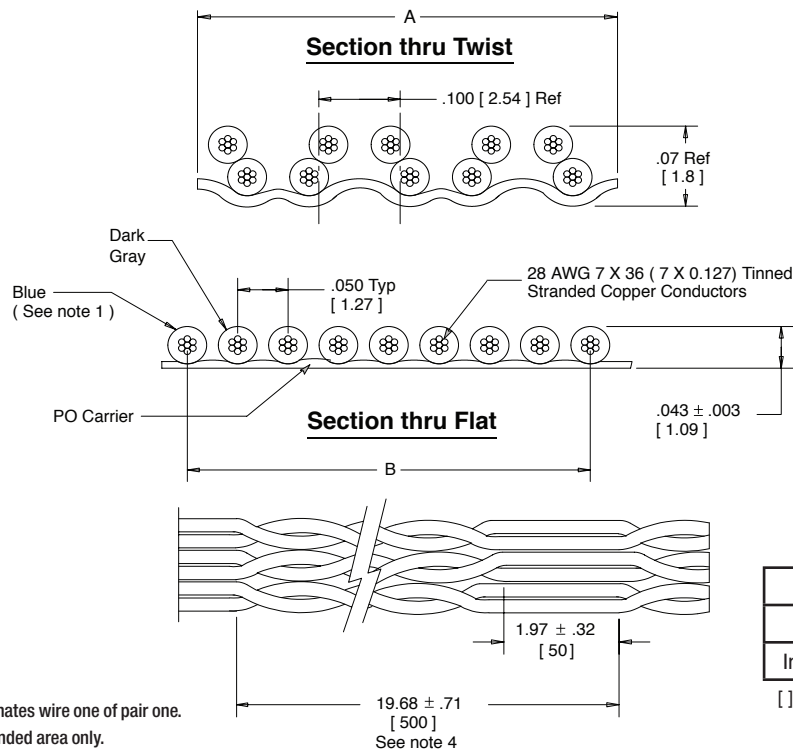
3M™ Twisted Pair Flat Cable

.050" 28 AWG Stranded, Mass Terminable, Halogen Free PO

HF100 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B (See Note 2)
10 (5 pair)	HF100/10TP	0.50 [12.7]	0.450 ± .010 [11.43]
14 (7 pair)	HF100/14TP	0.70 [17.8]	0.650 ± .010 [15.88]
16 (8 pair)	HF100/16TP	0.80 [20.3]	0.750 ± .010 [20.96]
20 (10 pair)	HF100/20TP	1.00 [25.4]	0.950 ± .010 [22.23]
24 (12 pair)	HF100/24TP	1.20 [30.5]	1.150 ± .010 [24.77]
26 (13 pair)	HF100/26TP	1.30 [33.0]	1.250 ± .010 [31.12]
30 (15 pair)	HF100/30TP	1.50 [38.1]	1.450 ± .015 [36.80]
34 (17 pair)	HF100/34TP	1.70 [43.2]	1.650 ± .015 [37.47]
40 (20 pair)	HF100/40TP	2.00 [50.8]	1.950 ± .015 [42.55]
50 (25 pair)	HF100/50TP	2.50 [63.5]	2.450 ± .015 [50.17]
60 (30 pair)	HF100/60TP	3.00 [76.2]	2.950 ± .015 [62.87]
64 (32 pair)	HF100/64TP	3.20 [81.3]	3.150 ± .015 [80.01]



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

[] Dimensions for Reference Only

Note:

- Blue edge conductor designates wire one of pair one.
- Dimension B pertains to bonded area only.

Ordering Information

HF100/XX TP XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note:

- Available in standard lengths of 100 ft and 300 ft per roll, please specify when ordering.
- Standard product has a 2" flat on 19.7" repeat (50 mm bond on 500 mm repeat). For special requirements, please contact your 3M sales representative. The flat can be specified anything over 1" (25 mm), the repeat can be specified from 6.5" to 48" (16.5 cm to 1.2 m).

TS-2344-C
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.3Mconnectors.com

3M is a trademark of 3M Company.

Please recycle. Printed in USA.
© 3M 2012. All rights reserved.
RIA-2217B-E



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.