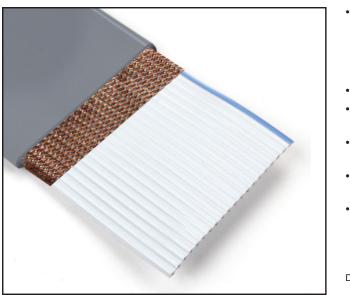
3M[™] Shielded/Jacketed, Flat Cable

.050" 28 AWG Stranded, Halogen Free PO/PO

HF017 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 stranded wire on .050 inch centers permits mass termination to broad line of IDC connectors
- 360 degree expanded copper shielding provides 20 db average shielding effectiveness
- Primary cable is zippable for branching or discrete terminations
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: December 9, 2010

TS-2345-C Sheet 1 of 2

Physical

Jacket Material:	Halogen Free Polyolefin (PO)
Color:	Dark Gray
Primary Material:	Halogen Free Polyolefin (PO)
Color:	Dark Gray
Marking:	
Standard:	None
Conductors:	28 AWG, 7 \times 36 AWG [7 \times Ø 0.127] Tinned Stranded Copper
Shielding Material:	Expanded Copper

Electrical

Voltage Rating:	USA: 300V	Canada: <50V		EU: <50V	
Insulation Resistance:	(Primary Cable) > $1 \times 10^{10} \Omega / 10$ ft. [3 m]				
Characteristic Impedance:	Unbalanced	Balanced		1	
	64 Ω		121 Ω		
Capacitance:	25.0 pF/ft [70.5 pF/	'm]	13.2 pF/f	t [41.7 pF/m]	
Inductance:	0.10 μH/ft [0.35 μH	[/m]	$0.19 \ \mu H/t$	ft [0.59 µH/m]	
Propagation Delay:	1.61 ns/ft [4.95 ns/r	n]	1.61 ns/ft [4.95 ns/m]		
Velocity of Propagation:	63%	63%			
append is measured between around signal ground conductors, with chield grounded Ralanced is measured between signal conductors within a pair with the chield flea					

Note: Unbalanced is measured between ground-signal-ground conductors, with shield grounded. Balanced is measured between signal conductors within a pair, with the shield floating.

Environmental

Temperature Rating: USA: -40°C to +105°C **Flammability Rating:** USA: VW-1

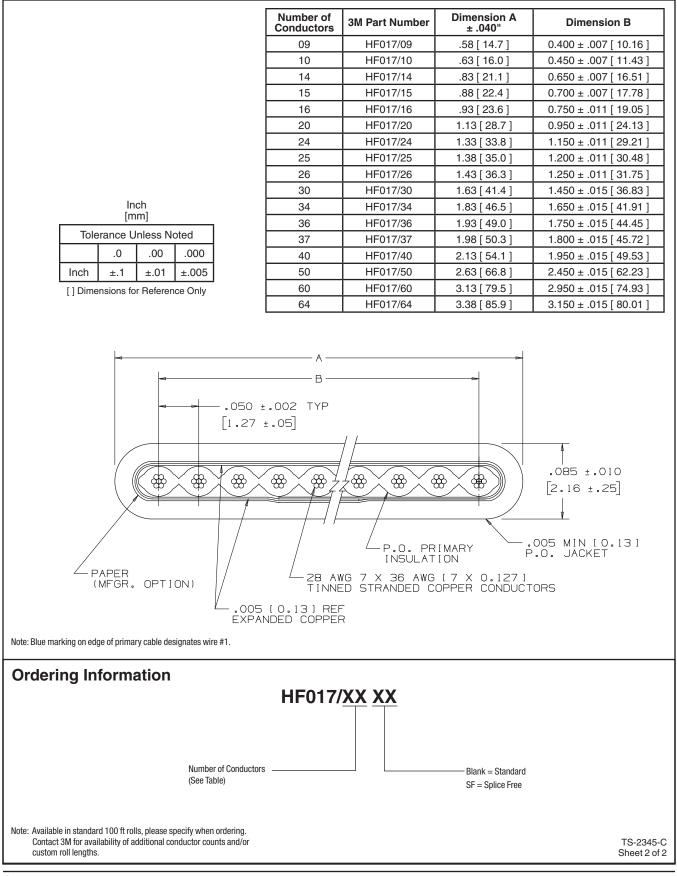
Halogen Free is defined as both 1) no halogen compounds that are intentionally added to the product or used in the manufacturing process for the product and 2) any impurities present are less than 900 ppm bromine, less than 900 ppm chlorine and/or less than 1500 ppm total bromine and chlorine. The latter 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.

3M Interconnect Solutions http://www.3Mconnector.com

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