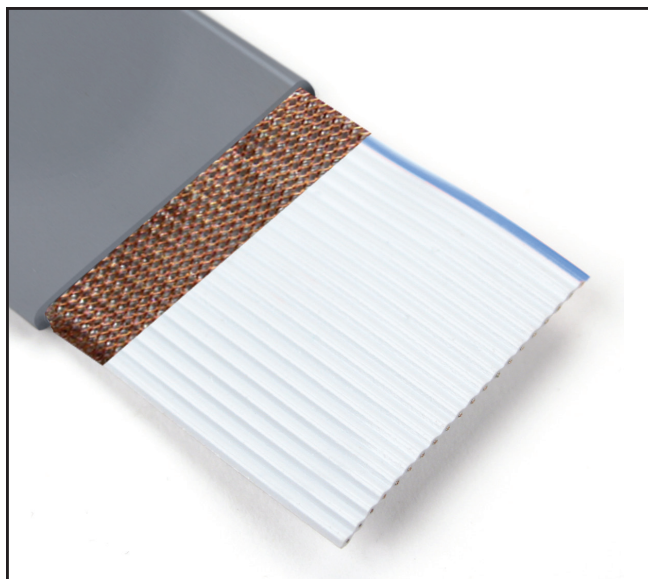


3M™ Shielded/Jacketed, Flat Cable

.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), helping reduce the risk to firefighters, and helping reduce the soot and corrosion damage to nearby equipment
- 28 AWG stranded wire on .050 inch centers permits mass termination to broad line of IDC connectors
- 360 degree expanded copper shielding
- Primary cable is zippable for branching or discrete terminations
- 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.

Date Modified: April 9, 2020

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Sheet 1 of 2

Physical

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

Electrical

Voltage Rating:	(Primary Cable) USA: 300V Canada: < 150V	
Insulation Resistance:	(Primary Cable) > 1 × 10 ¹⁰ Ω/10 ft. [3 m]	
Characteristic Impedance:	Unbalanced	Balanced
	64 Ω	121 Ω
Capacitance:	25.0 pF/ft [70.5 pF/m]	13.2 pF/ft [41.7 pF/m]
Inductance:	0.10 μH/ft [0.35 μH/m]	0.19 μH/ft [0.59 μH/m]
Propagation Delay:	1.61 ns/ft [4.95 ns/m]	1.61 ns/ft [4.95 ns/m]
Velocity of Propagation:	63%	63%

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: (Primary Cable) +105°C

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.

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

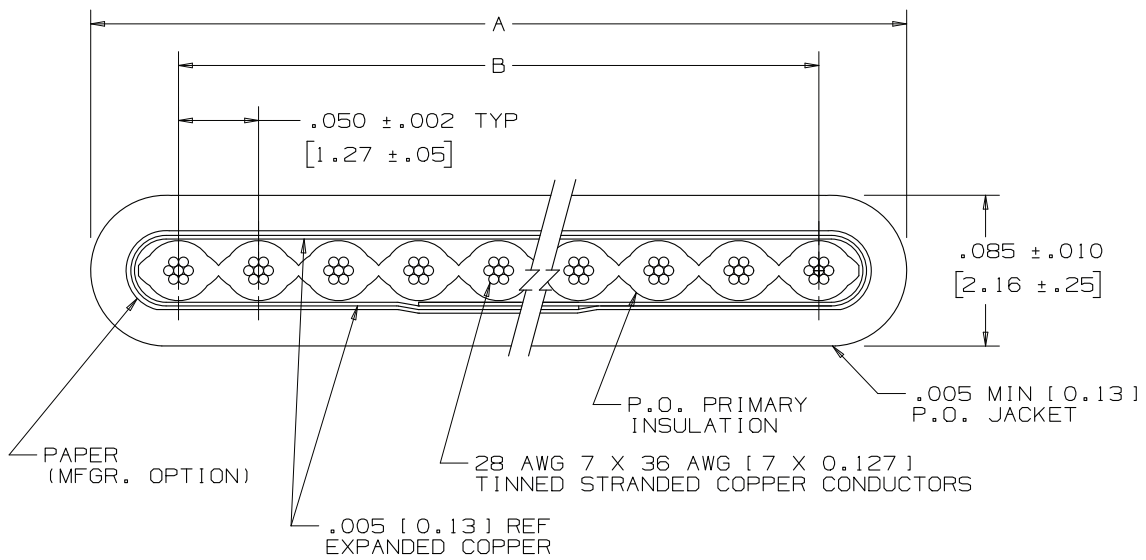
HF017 Series

Number of Conductors	3M Part Number	Dimension A ± .040"	Dimension B
25	HF017/25	1.32 [33.5]	1.200 ± .011 [30.48]

Inch
[mm]

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

[] Dimensions for Reference Only



Note: Blue marking on edge of primary cable designates wire #1.

Ordering Information

HF017/XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

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

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Sheet 2 of 2

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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