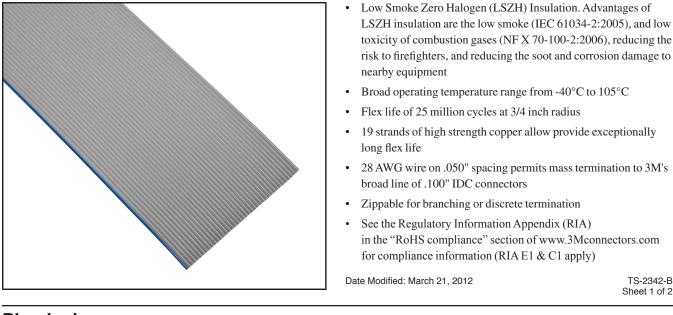
$3M^{TM}$ High Flex Life Cable

.050" 28 AWG Stranded, Halogen Free PO

HF319 Series



Physical

Jacket Material:	Halogen Free Polyolefin (PO)
Color:	Dark Gray
Marking:	
Standard:	None
Conductors:	28 AWG, 19 × 40 AWG [19 × Ø 0.79] Silver Plated Stranded Copper Alloy (89% Conductivity)

Electrical

Voltage Rating:	USA: 300V	Canada: 150V	EU: <50V
Insulation Resistance:	$> 1 \times 10^{10} \Omega / 10$ ft. [3 m]		
Characteristic Impedance:	Unbalanced 104 Ω	Balance 167 Ω	ed
Capacitance:	14.1 pF/ft [46.3 pF	/m] 8.2 pF/f	t [26.9 pF/m]
Inductance:	0.15 μH/ft [0.49 μH	I/m] 0.23 μH	/ft [0.75 µH/m]
Propagation Delay:	1.47 ns/ft [4.82 ns/	m] 1.37 ns/s	ft [4.49 ns/m]
Velocity of Propagation:	70%	74%	

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:** USA: Horizontal

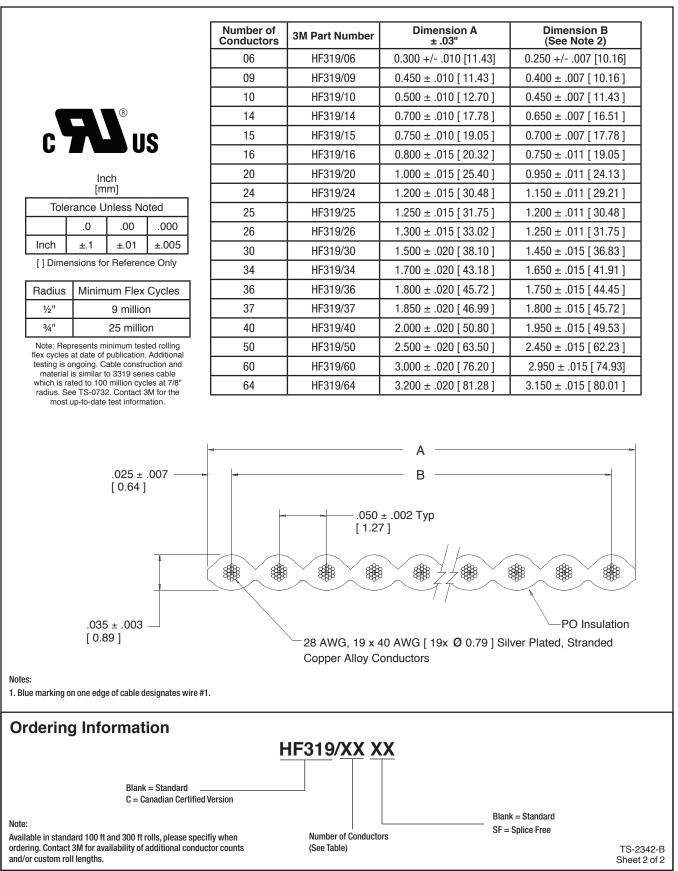
> Halogen Free is defined as both 1) no halogen compounds that are intentionally added to the product or used in the manufacturing process for the product and 2) any impurities present are less than 900 ppm bromine, less than 900 ppm chlorine and/or less than 1500ppm total bromine and chlorine. The latter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

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

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