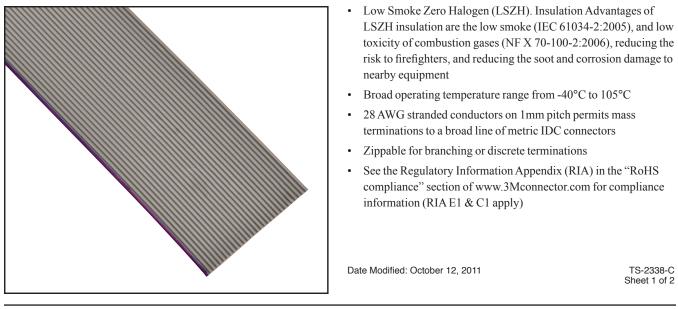
3M[™] Round Conductor Flat Cable

1 mm 28 AWG Stranded, Halogen Free PO

HF625 Series



Physical

Insulation:	
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

Electrical

Voltage Rating:	USA: 300V	Canada: 150V	EU: <50V	
Insulation Resistance:	$>$ 1 $ imes$ 10 ¹⁰ Ω /3 m [10 ft]			
Characteristic Impedance:	edance: Unbalanced 85 Ω		Balanced 144 Ω	
Capacitance:	60.5 pF/m [18.44 p	0F/ft] 33.8 pF	33.8 pF/m [10.29 pF/ft]	
Inductance:	0.43 μH/m [0.13 μ]	H/ft] 0.69 μH	$0.69\mu\text{H/m}$ [$0.21\mu\text{H/ft}$]	
Propagation Delay:	5.15 ns/m [1.57 ns/	/ft] 4.86 ns/	4.86 ns/m [1.48 ns/ft]	
Velocity of Propagation:	65%	69%		

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.

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						Number of Conductors	3M Part Number	Dimension A	Dimension B		
			06	HF625/06	6.00 ± 0.20 [.236]	5.00 ± 0.18 [.197]					
						08	HF625/08	8.00 ± 0.20 [.315]	7.00 ± 0.18 [.276]		
						10	HF625/10	10.00 ± 0.20 [.394]	9.00 ± 0.18 [.354]		
				12	HF625/12	12.00 ± 0.20 [.472]	11.00 ± 0.18 [.433]				
			R			14	HF625/14	14.00 ± 0.20 [.551]	13.00 ± 0.18 [.512]		
			®			16	HF625/16	16.00 ± 0.22 [.630]	15.00 ± 0.20 [.591]		
	C			21		18	HF625/18	18.00 ± 0.22 [.709]	17.00 ± 0.20 [.669]		
	U			50		20	HF625/20	20.00 ± 0.22 [.787]	19.00 ± 0.20 [.748]		
						22	HF625/22	22.00 ± 0.22 [.866]	21.00 ± 0.20 [.827]		
			nm nch]			24	HF625/24	24.00 ± 0.22 [.945]	23.00 ± 0.20 [.906]		
l r	Tol	-	Jnless N	atad	1	26	HF625/26	26.00 ± 0.22 [1.024]	25.00 ± 0.20 [.984]		
	1016	<u> </u>	1	· · · · ·	{	28	HF625/28	28.00 ± 0.22 [1.102]	27.00 ± 0.20 [1.063]		
		.0	.00	.000		30	HF625/30	30.00 ± 0.25 [1.181]	29.00 ± 0.23 [1.142]		
[mm	±.3	±.13			32	HF625/32	32.00 ± 0.25 [1.260]	31.00 ± 0.23 [1.220]		
'	[] Dime	nsions fr	or Referer	ice Only	1	34	HF625/34	34.00 ± 0.25 [1.339]	33.00 ± 0.23 [1.299]		
	[] Diin			lee only		36	HF625/36	36.00 ± 0.25 [1.417]	35.00 ± 0.23 [1.378]		
						38	HF625/38	38.00 ± 0.25 [1.496]	37.00 ± 0.23 [1.457]		
						40	HF625/40	40.00 ± 0.25 [1.575]	39.00 ± 0.23 [1.535]		
						42	HF625/42	42.00 ± 0.25 [1.654]	41.00 ± 0.23 [1.614]		
						44	HF625/44	44.00 ± 0.25 [1.732]	43.00 ± 0.23 [1.693]		
						46	HF625/46	46.00 ± 0.25 [1.811]	45.00 ± 0.23 [1.772]		
						48	HF625/48	48.00 ± 0.25 [1.890]	47.00 ± 0.23 [1.850]		
						50	HF625/50	50.00 ± 0.25 [1.969]	49.00 ± 0.23 [1.929]		
	$\begin{array}{c} 0.89 \pm 0.08 \\ [.035] \end{array} \qquad $										
Notes	Notes: 28 AWG 7 × 36 AWG [7 × Ø 0.127] Tinned Stranded Copper Conductors										
1. Blu	ue marking	g on one ec	dge of cable	designate	s wire #1.						
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	aerii	ig ini	forma	tion							
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