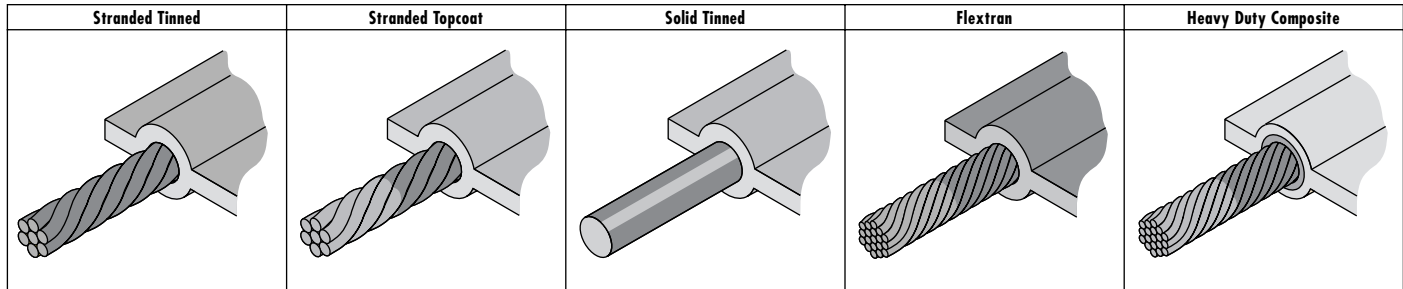


molex® Flat Ribbon Cable Guide and Electrical Specifications

Select Conductor Type:

- **Stranded Tinned**—Flexible conductor formed by individually Tin-coated wires twisted together for added flexibility. Recommended only for assemblies with no stripping of insulation.
- **Stranded Topcoat**—Flexible conductor formed by bare wires twisted together and Tin-coated on top to prevent fraying of exposed wire tips. Provides easier insertion of wires in PC board holes and is ideal for direct soldering of cable PC board. Recommended for board-to-board cable jumpers.
- **Solid Tinned**—Single solid wire conductor, Tin-coated, is less flexible than stranded. Exposed wire tips remain rigid and hold spacing. Easy to insert into PC board holes. Recommended for board-to-board jumpers.
- **Flextran™**—High flex life stranded topcoat conductor made of highly flexible Copper Alloy, used in high flex cycle applications. Ideal for board-to-board jumpers or cable assemblies.
- **Heavy Duty Composite**—Stranded conductor overcoated with irradiated primary insulation to prevent sharp edges from cutting through insulation and to prevent melting conductor. Ideal for board-to-board jumpers or cable assemblies.



Ribbon Cable Systems



Select wire gauge (AWG) and centerline spacing (pitch). Refer to listed page number for bulk cable ordering information. Refer to page H-46 for ordering notched bulk cable and cable assemblies

ROUND CONDUCTOR FLAT CABLE											
Pitch	Circuit Size	AWG	Copper Conductor Type [‡]	Max. Conductor Resistance, mΩ/ft	Nominal Characteristic Impedance, Ω		Nominal Capacitance, pf/ft		Nominal Prop. Delay, ns/ft	Min. Dielectric Withstanding Voltage, (VRMS)	Page No.
					GS [*]	GSG [†]	GS	GSG			
1.00 (.039)	10-50	28	Stranded, Tinned (7 x 36)	68	112	83	11.8	18.3	1.4	1500	H-3
	3-68	28	Stranded, Tinned (7 x 36)	68	123	100	9.1	17.0	1.4	2000	H-4 to H-6
1.27 (.050)	3-64	26	Stranded, Tinned (7 x 34)	43	115	93	8.9	18.0	1.4	2000	
	3-68	28	Stranded, Topcoat (7 x 36)	68	123	100	9.1	17.0	1.4	2000	
1.50 (.059)	2-30	26	Stranded, Topcoat (7 x 34)	43	121	99	9.0	16.5	1.4	2000	H-8
		26	Stranded, Tinned (7 x 34)	43	133	111	7.3	13.4	1.4	2000	
2.00 (.079)	2-28	26	Stranded, Topcoat (7 x 34)	43	133	111	7.3	13.4	1.4	2000	H-10
		24	Stranded, Tinned (7 x 32)	27	124	104	8.2	14.6	1.4	2000	
		24	Stranded, Topcoat (7 x 32)	27	124	104	8.2	14.6	1.4	2000	
		26	Stranded, Tinned (7 x 34)	43	143	121	5.7	10.4	1.4	2000	
2.50 (.098)	2-30	26	Stranded, Topcoat (7 x 34)	43	143	121	5.7	10.4	1.4	2000	H-11
		24	Stranded, Tinned (7 x 32)	27	133	113	6.6	11.8	1.4	2000	
		24	Stranded, Topcoat (7 x 32)	27	133	113	6.6	11.8	1.4	2000	
		26	Solid, Tinned (1 x 26)	45	150	128	5.2	9.2	1.4	2000	
2.54 (.100)	2-36	28	Stranded, Tinned (7 x 36)	68	150	128	5.0	9.1	1.4	2000	H-12
		22	Stranded, Tinned (7 x 30)	17	128	104	7.2	13.4	1.4	2000	
		28	Stranded, Topcoat (7 x 36)	68	150	128	5.0	9.1	1.4	2000	
		26	Stranded, Topcoat (7 x 34)	43	145	123	5.6	10.3	1.4	2000	
		24	Stranded, Topcoat (7 x 32)	27	134	114	6.6	12.0	1.4	2000	H-11
		22	Stranded, Topcoat (7 x 30)	17	128	104	7.2	13.4	1.4	2000	
		26	Stranded, Tinned (7 x 34)	43	145	123	5.6	10.3	1.4	2000	
		24	Stranded, Tinned (7 x 32)	27	134	114	6.6	12.0	1.4	2000	
3.96 (.156)	2-24	22	Stranded, Tinned (7 x 30)	17	140	123	4.7	8.5	1.4	2000	H-15
		18	Stranded, Tinned (19 x 30)	7	128	105	5.9	10.9	1.4	2000	
		22	Stranded, Topcoat (7 x 30)	17	140	123	4.7	8.5	1.4	2000	
		18	Stranded, Tinned (7 x 26)	7	128	105	5.9	10.9	1.4	2000	
FLEXTRAN™ HIGH FLEX LIFE CABLE											
2.00 (.079)	2-28	26	Stranded, Topcoat (19 x 38)	52	164	121	7.6	11.5	1.3	2000	H-9
		24	Stranded, Topcoat (19 x 36)	32	148	106	8.2	12.9	1.3	2000	
2.54 (.100)	2-36	26	Stranded, Topcoat (19 x 38)	54	158	131	5.3	9.2	1.4	2000	H-13
		24	Stranded, Topcoat (19 x 36)	34	146	122	6.2	10.7	1.4	2000	
HEAVY-DUTY COMPOSITE CABLE											
2.54 (.100)	2-24	24	Stranded, Overcoat (19 x 36)	31	113	109	8.8	13.0	1.4	2000	H-14

* GS = Ground Signal

† GSG = Ground Signal Ground

‡ Number of wires at given wire gauge, forming a single conductor

All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication, but is subject to change without notice. Current sales drawings and specifications are available upon request. Molex makes no claims or warranties as to the application of this product or its suitability or fitness for any particular purpose. Accordingly, it is recommended that each user independently test and evaluate the product for its intended use.