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3.31: Table 8: Conductor Configurations

Typical Application	American Wire Gauge							
	12	14	16	18	20	22	24	26
Fixed Services Hook-Up Wire Cable in Raceway	19x25	solid or 19x27	solid or 19x29	solid or 7x26 or 16x30	solid or 7x28 or 10x30	solid or 7x30	solid or 7x32	solid or 7x34
Moderate Flexing Frequently Disturbed For Maintenance	65x30	19x27 or 41x30	19x29 or 26x30	16x30 or 41x34	7x28, 10x30, 19x32, or 26x34	7x30 or 19x34	7x34 or 10x34	7x34
Severe Flexing Microphone Test Prods	165x34	104x34	65x34 or 104x36	41x34 or 65x36	26x34 or 42x36	19x34 or 26x36	19x36 or 45x40	7x34 or 10x36
Most Severe Duty Mercury Switches	259x36 (7x37 Rope Lay)*	168x36 (7x24 Rope Lay)*	105x36 (7x15 Rope Lay)*	63x36 (7x9 Rope Lay)*	105x40 (3x35 Rope Lay)*	(Consider Braid or Tinsel)		

Note: For a given AWG wire size (based on equal cross-sectional area of conductor), limpness and flex life are increased by use of a large number of fine strands. The finer strand in does result in higher costs.

*Rope Lay is several stranded groups cabled together. For example: #12 AWG, 259x36 is 7 cords each consisting of 37 strands of #36 AWG