



Technical Bulletin Explanation of Approved Wire Types

All UL agency approved terminal blocks are based on standard UL 1059. Part of the qualification for a terminal block is its wire connection. The wire connection is based upon UL 486. Within UL 486 there is a table that specifies the type of stranded wire tested to approve the wire connection of the terminal block.

**Table 7.1 Conductor for test*

Size of conductor to which connector is to be assembled, AWG or kcmil (mm ²)		Number of strands, if stranded conductor		
		Copper		Aluminum
		Class B	Class C	Class B
24-30	(0.20-0.05)	A	--	--
22	(0.32)	7	--	--
20	(0.52)	10	--	--
18	(0.82)	16	--	--
16	(1.3)	26	--	--
14-2	(2.1-33.6)	7	19	7
1-4/0	(42.4-107.2)	19	37	19
250-500	(127-253)	37	61	37
600-1000	(304-508)	61	91	61
1250-1500	(635-759)	91	127	91
1750-2000	(886-1016)	127	271	127

a
Number of strands may vary.

7.2.2 A connector may be acceptable for copper wire other than Class B or Class C stranding if the connector is subjected to all test sequences using the other stranding. See 21.7

21.7 A connector, a unit container, or an information sheet packed in the unit container for a connector tested with conductors other than Class B or Class C stranding – see 7.2.2 – shall also be marked with the conductor class or classes and the number of strands.