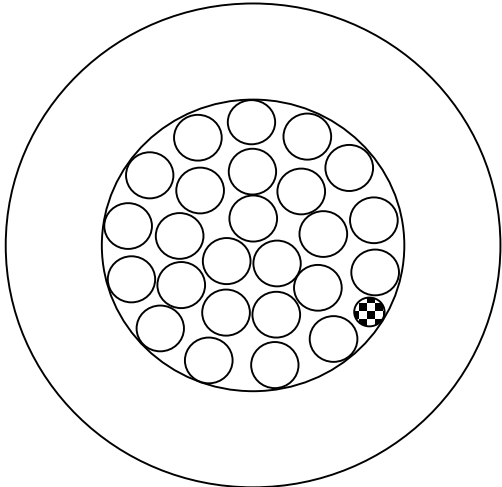


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## 25 PAIR 26 AWG CAT 5E TYPE CABLE



### ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Impedance (Ohms)	RL (dB Min.)	Attenuation (db/100 m Max.)
1	100± 15	20.0	3.2
4	100± 15	23.0	6.6
8	100± 15	25.0	9.4
10	100± 15	25.0	10.9
16	100± 15	25.0	13.5
20	100± 15	25.0	15.4
25	100± 15	24.3	17.4
31.25	100± 15	23.6	19.7
62.5	100± 15	21.5	29.1
100	100± 15	20.1	38.3
Frequency (MHz)	PSNEXT (dB Min.)	PSELFEXT (dB Min.)	
1	62.3	60.8	
4	53.3	48.8	
8	48.8	42.7	
10	47.3	40.8	
16	44.2	36.7	
20	42.8	34.8	
25	41.3	32.8	
31.25	39.9	30.9	
62.5	35.4	24.9	
100	32.3	20.8	

- Values are based on 25 feet Maximum
- An impedance-like function fit to data by Least Square Method meets This Requirement
- Values shown from 1-100 MHz are examples. Return Loss at any Frequency between 1 and 10 MHz is  $20 + 5 \log_{10}(f)$  dB Minimum between 10 and 20 MHz is 25 dB Minimum, and between 20 and 100 MHz is  $25 - 7 \log_{10}(f/20)$  dB Minimum, where  $f$  is the frequency in MHz and Measurement is on a 25 feet length.
- RL is Return Loss measured in accordance with ANSI/TIA/EIA-568-C2 Values shown are examples.
- Power Sum NEXT at any frequency between 1 and 100 MHz is  $32.3 - 15 \log_{10}(f/100)$  dB Minimum where  $f$  is frequency in MHz and measurement is on a 25 feet length. Power Sum Crosstalk is defined at total Energy that a pair receives when all other pairs are energized
- Power Sum ELFEXT at any frequency between 1 and 100 MHz is  $20.8 - 20 \log_{10}(f/100)$  dB Minimum where  $f$  is frequency in MHz and measurement is on a 25 feet length

- Mutual Capacitance: 7.0 nF/100 m Maximum @ 1 kHz
- Pair to Ground Capacitance Unbalance: 330 pF/100 m Maximum @ 1 kHz
- Voltage Withstand: 1000 VAC for 1 Minute
- Conductor DC Resistance: 14.8 Ohms/100 m Maximum @ 20C
- Conductor DC Resistance Unbalance: 5% Maximum

### REVISION HISTORY

0	12-01-16	WD	FIRST ISSUE

Customer Number	
D.G. Part Number	16L2-9
Prepared By:	KAM
Reviewed By:	WJD