























Product Specifications Charts

Telephone Interfaces

MODEL	Current Units Supplied	Input Impedance	Input Level	VOX Sensitivity	Music Source Input Impedance	Music Input Level	Speaker Capacity	Output Level	Contact Closure	Voltage/Current	Dimensions	Product Weight
 UTI1		600 ohms	-10 dBm nominal	-30 dBm	20k ohms	-10 dBm	150 (per output)	-10 dBm nominal	2A @ 30V DC; 0.6A @ 125V AC	120V AC/ 0.5A	12- ¹ / ₄ " W x 5- ¹ / ₄ " H x 2- ¹ / ₂ " D	5 lb.
 UTI312		600 ohms	-10 dBm nominal	-30 dBm	20k ohms	-10 dBm	150 (per zone)	-10 dBm nominal	ZX3: 2A @ 30V DC; 0.5A @ 125V AC AUX: 2A @ 30V DC; 0.6A @ 125V AC	120V AC/ 0.75A	16- ³ / ₈ " W x 3- ¹ / ₂ " H x 4- ⁷ / ₈ " D <small>(without flanges)</small> 19" W <small>(with flanges)</small>	8 lb.
 PCM2000		600 ohms	-10 dBm nominal	-16 dBm	10k ohms	-10 dBm nominal	25 (per zone)	-10 dBm nominal	1A @ 30V DC; 0.3A @ 125V AC (PCMTIM)	12V DC/ 1.5A	1- ¹ / ₂ " W x 7- ¹ / ₂ " H x 4- ¹ / ₄ " D <small>(each module)</small>	1 lb. <small>(each module)</small>


Speakers

MODEL	Product Style	Current Units Consumed	Max. Power Rating	Max Sound Level (dBspl)	Input Sensitivity (mVrms)	Frequency Response	Input Impedance	Dispersion (degrees)	Dimensions	Product Weight
 SAH5	Digital Switching Horn Speaker		5W	119	125	275 Hz-14 kHz	2000 ohms	120	10- ⁵ / ₈ " W x 12" H x 11- ¹ / ₂ " D	6 lb.
 SAH15	Digital Switching Horn Speaker		15W	124	125	275 Hz-14 kHz	2000 ohms	120	10- ⁵ / ₈ " W x 12" H x 11- ¹ / ₂ " D	6 lb.
 AH5A	Metal Horn Speaker		5W	116	32	275 Hz-14 kHz	1000 ohms	110	9" Dia. x 9- ¹ / ₄ " D	4 lb.
 AH15A	Metal Horn Speaker		15W	121	58	275 Hz-14 kHz	1000 ohms	110	9" Dia. x 9- ¹ / ₄ " D	4 lb.
 ASWB1	Wall Baffle Speaker		1W	92	110	100 Hz-10 kHz	1000 ohms	90	9- ¹ / ₂ " W x 9- ¹ / ₂ " H x 5- ¹ / ₄ " D	4 lb.
 ASWG1	Ceiling Speaker		1W	92	125	100 Hz-10 kHz	1000 ohms	90	12- ⁷ / ₈ " Dia. x 3- ³ / ₄ " D	4 lb.
 ASWG1DK	Ceiling Speaker		1W	92	125	100 Hz-10 kHz	2000 ohms	90	12- ⁷ / ₈ " Dia. x 3- ³ / ₄ " D	4 lb.
 ACD2X2	Drop-In Ceiling Speaker		1W	92	125	95 Hz-12 kHz	2000 ohms	100	23- ⁷ / ₈ " W x 5" H x 23- ⁷ / ₈ " D	12 lb.

Specifications subject to change without notice.

Speaker Selection

This chart indicates the typical Ambient Noise Level and environments appropriate for various speaker types.

SPEAKER MODELS 		ASWB1 ASWG1 ASWG1DK ACD2X2	SAH5 AH5A	SAH15 AH15A
TYPICAL AMBIENT NOISE LEVEL	TYPICAL ENVIRONMENTS			
HIGH NOISE 75-85 dB Speech Is Difficult To Hear	<ul style="list-style-type: none"> • Assembly Line • Crowded Transit Waiting Area • Machine/Print Shop • Shipping Warehouse • Supermarket (Peak) • Very Noisy Bar or Restaurant 			
MEDIUM NOISE 65-75 dB Must Raise Voice To Be Heard	<ul style="list-style-type: none"> • Bank/Public Area • Transit Waiting Area • Department Store • Noisy Office Setting • Supermarket (Normal) • Bar or Restaurant 			
LOW NOISE 55-65 dB Speech Is Easy To Hear	<ul style="list-style-type: none"> • Conversational Speech • Doctor's Office • Hospital • Hotel Lobby • Quiet Office • Quiet Bar or Restaurant 			

Cable Length

- Find the row which is equal to or greater than the total number of Current Units needed for the equipment on the cable run.
- Find where this row crosses the column for the wire gauge that will be used for the run.
- The number in the cell where these cross is the maximum cable length for that run.

Example: When 37 Current Units are to be used on a 24-Gauge Wire, the maximum usable cable length will be 88 feet.

Note: It may be necessary to increase the wire size (smaller gauge numbers) or split the speaker runs to shorten the wire run lengths if they exceed the chart maximums.

		WIRE GAUGE (AWG)					
		26	24	22	20	18	16
Total CU (Current Units) on cable run	10	220'	351'	557'	887'	1413'	2237'
	20	110'	175'	279'	443'	706'	1118'
	30	73'	117'	186'	296'	471'	746'
	40	55'	88'	139'	222'	353'	559'
	50	44'	70'	111'	177'	283'	447'
	60	37'	58'	93'	148'	235'	373'
	70	31'	50'	80'	127'	202'	320'
	80	28'	44'	70'	111'	177'	280'
	90	24'	39'	62'	99'	157'	249'
	100	22'	35'	56'	89'	141'	224'
110	20'	32'	51'	81'	128'	203'	

Indicates maximum cable length (in feet)

Connecting wire pairs together, in parallel in a cable, effectively reduces the gauge and lowers resistance. The chart below shows how the gauge decreases with paralleled pairs.

REDUCING GAUGE		
WIRE GAUGE (AWG)	PARALLEL 2 PAIR	PARALLEL 3 PAIR
26	24	22
24	22	20
22	20	18
20	18	16
18	16	14
16	14	12