

# comstron corporation

200 East Sunrise Highway, Freeport, New York 11520  
(516)546-9700 TWX 510-225-3699

## CERTIFICATE OF CONFORMANCE

April 19, 1985

• Alex Delcastillo  
• 1405 S.W. 104th Court  
• Miami, Fl.  
• 33173

Attn: L12896-045  
Receiving Inspection  
Purchase Order No. Verbal  
Seller's Invoice No. 30422

### Seller Certifies that:

The materials, parts, and/or equipment as indicated in the invoice number referenced herein, have been produced and/or supplied in conformance with all contractual applicable Government and/or Buyers' specifications as they existed at the time when said purchase order or contract was placed, or as modified by formal contract and/or purchase order change.

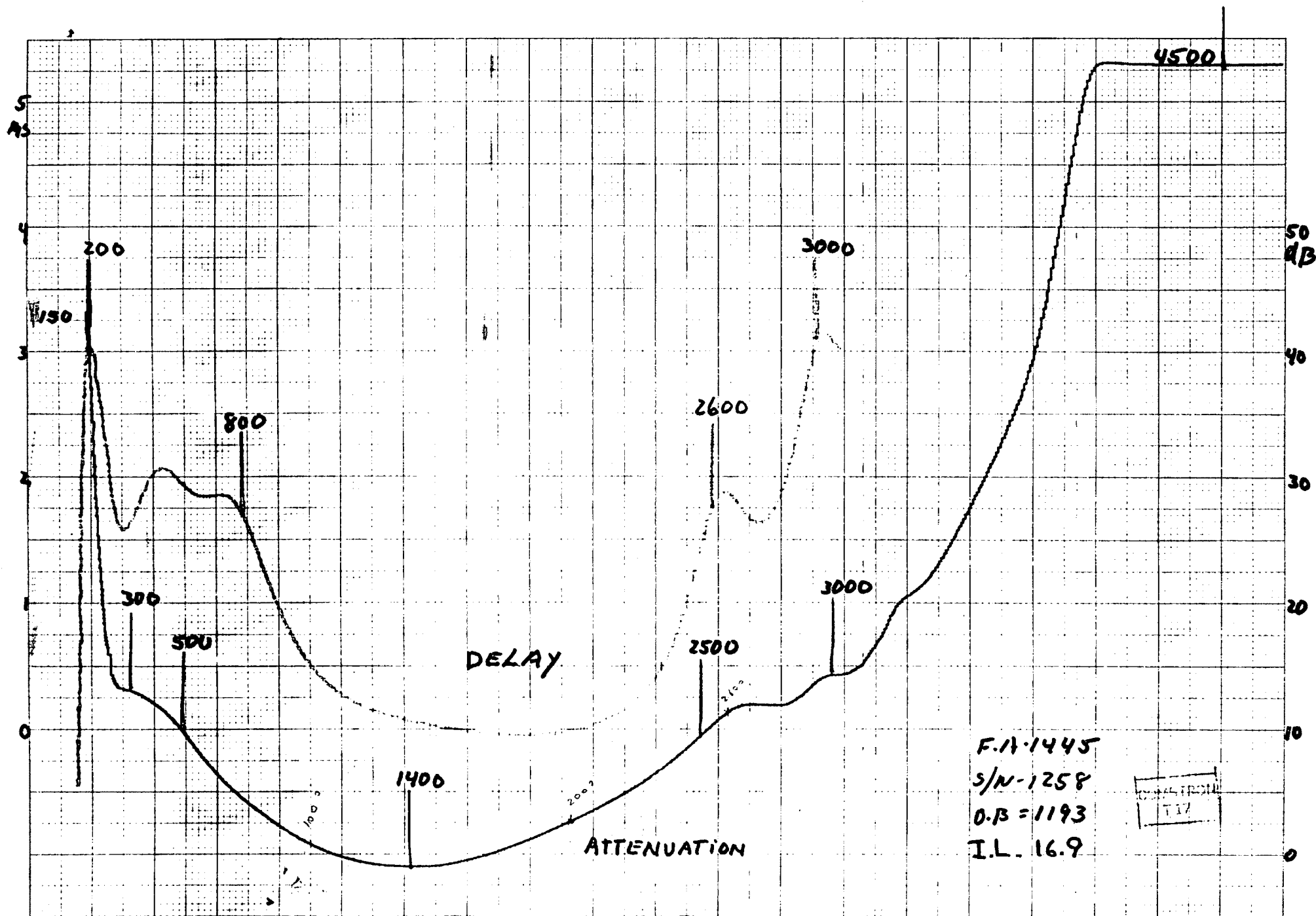
### Description of Material

1 FA-1445 S/N 1258

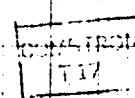
Seller: COMSTRON CORPORATION

By : *K. Ruge*

Title: Manager, Quality Control



F.11-1445  
S/N-1258  
O.B. = 1193  
I.L. 16.9



186442



**comstron corporation**

200 East Sunrise Highway, Freeport, New York 11520

# TEST REPORT

Date: 4/22/85 Serial# 1258  
 S/P  
 Lot# 12896

TELEPHONE LINE SIMULATOR

MODEL FA - 1445

Attenuation (DB)    Ref. 1000 HZ			Delay (us) Ref. 1700 HZ		
Frequency (Hz)	Specified	Measured	Specified	Measured	Tester
0 - 150	+ 24 (Min.)	35			COMSTRON T 17
200			3000 (Min.)	3150	
300	+12 $\pm$ 1.2	11.4			
500	+8 $\pm$ .8	8.45			
800			1750 $\pm$ 175	1750	
1400	-2 (Max.)	- 1.85			
2500	+8 $\pm$ .8	7.9			
2600			1750 $\pm$ 175	1760	
3000	+12 $\pm$ 1.2	12.5	3000 (Min.)	3075	
>4500	+50 (Min.)	> 50			
	Insertion Loss (DB)		Impedance (Ohm s)		
1000 (Ref.)	16 $\pm$ 1	16.9	600 $\pm$ 60	600	

Model #

FA-1445

Serial #

1258

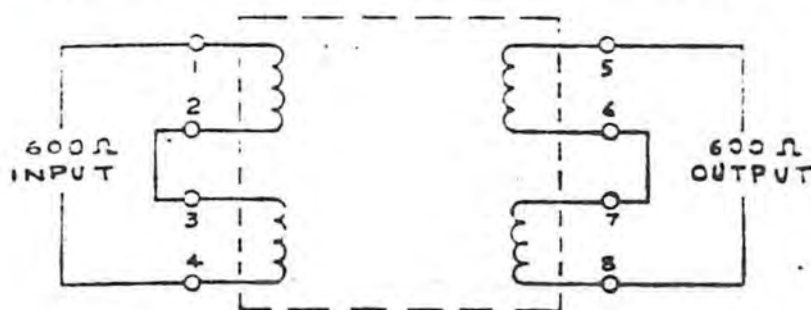
### Operation of SEG Telephone Data Line Simulators

SEG Telephone Data Line Simulators are precision, passive, networks which simulate the nominal worst case characteristics of their specified schedule.

Each Simulator is supplied with a set of curves showing the attenuation and group delay characteristics as measured with a Wandel and Goltermann LDS test set. Every precaution is taken to ensure that the Simulator you receive is stable, noise-free, and within the tolerances set forth in the accompanying test report. It is for these reasons that the SEG SIMULINE<sup>TM</sup> system has become "a standard of the industry".

The Simulator is placed in operation as follows:

The input and output are split transformer coupled as shown



Hook up for 600 ohm "Normal" operation

thus providing impedance matching capability from 150 ohm to 600 ohm or operation as a 600 ohm device. Normally the Simulators are used as a 600 ohm device and are thus placed in operation by strapping pin 2 to pin 3 and strapping pin 6 to pin 7 while utilizing pins 1 and 4 as input and 5 and 8 as output respectively.

**COMSTRON · SEG**