BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G31.106.1
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AT&T Co Standard

OPEN WIRE
SHOCK RESISTANT INSULATORS

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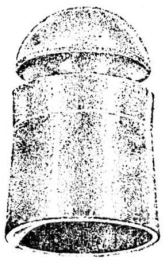
1. GENERAL

1.01 This section describes the use of 9480 insulators i open wire lines at locations where considerable troubl is being experienced from breakage of glass insulators by stones, bullets, etc.

2. DESCRIPTION OF 9480 INSULATOR

2.01 The 9480 insulator is made of synthetic rubber (Buna S) and is suitable for mounting on wooden insulator pins, wooden pole brackets, or steel pins with wooden thimbles.

9480 INSULATOR



3. USE OF 9480 INSULATOR

3.01 The plant supervisory forces will usually specify the locations where the installation of 9480 insulators appears justifiable.

3.02 9480 insulators may be used in straight sections of line, and at corners under the conditions shown in the following table:

Kind and Size of Wire				Loading Area	Maximum Pull (Feet)	
Copper	Copper-Steel	Steel	HS Steel		Single Insulator	*6" or 8" Point Bracket
165	128	134	109H	Heavy	30	5
				Medium	40	10
				Light	50	20
128	104	109	083H	Heavy	40	10
				Medium and Light	50	30
104 or 080	080	083		All	May be used at all corners not exceeding 50 foot pull.	

* Do not use with 12" point transposition brackets, except in light loading area with wire of 128 size or smaller.

3.03 When 9480 insulators are to be installed on point transposition brackets, the 5/8-inch CB steel insulator pins should be replaced by 5/8-inch Type A steel insulator pins.

3.04 9480 insulators should not be used at dead ends.

3.05 Line wires should be tied to 9480 insulators with tie wires of the same type used with other insulators on the line, but of a size suitable for CSC insulators.