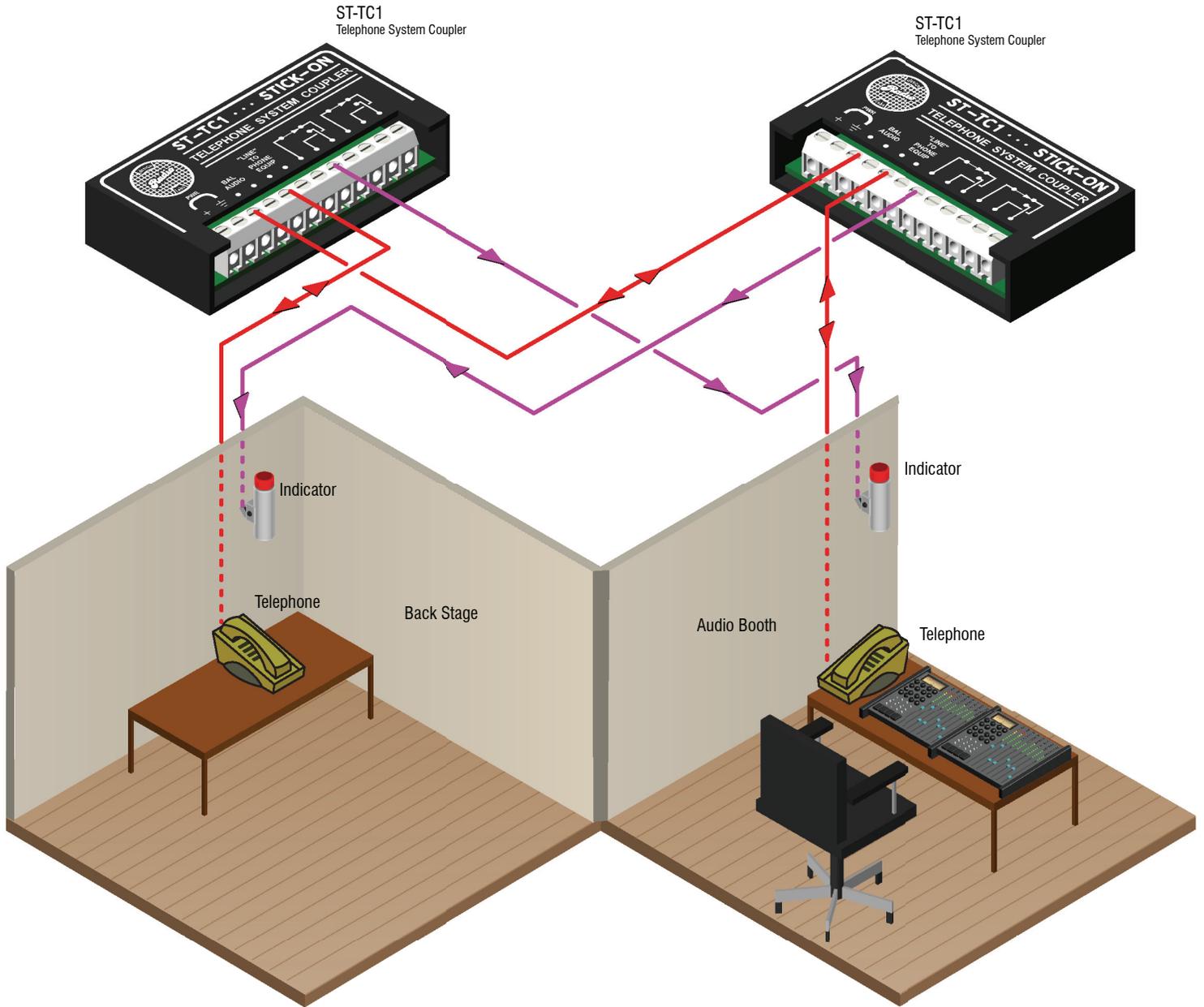


INTERCOM USING TWO STANDARD TELEPHONES

Visual Call Indicator Ideal for Stage or House of Worship Intercom



Description:

This application shows a pair of ST-TC1 Telephone System Couplers used for handset communication in a theatre. The ST-TC1 provides “battery” for powering a standard telephone instrument, a circuit for detecting “off hook” condition, a transformer-coupled output, and DPDT relay contacts that switch when “off hook” is detected. These features may be used to develop a “silent ring” intercom system for use in stage, studio and house of worship environments where an audible ring is not acceptable. Each telephone instrument requires a single ST-TC1. A twisted pair cable connects audio between the two modules. Additional pairs carry the annunciation (lamp, flasher, etc.) actuation closure. The annunciation device is active whenever the opposite phone is “off hook”. Six conductors (3 pairs) are required to connect the two locations. Cat5 cable may be used in which case the fourth pair may be used to carry 24 Vdc power between modules if they are not co-located.

Parts List	
Product	QTY
ST-TC1	2

Recommended Pwr. Supplies	
Product	QTY
PS-24AS 24 Vdc 500 mA	1

Line Color Key	
—	Line Level Audio Signal
—	Loudspeaker Level
—	Control Signal
—	Video
—	Mic Level Audio Signal
—	Ground
—	Power
—	Miscellaneous