RS504 DOOR ENTRY STATION
INSTALLATION AND OPERATION

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DESCRIPTION

The RS504 Door Entry Station is designed for use with the Telecenter IV system. There are three switches: CALL, TALK and DOOR. The unit should be mounted in a standard one-gang back box and can be used with a US0188 or RS505 speaker.

PACKAGING

The RS504 is packaged twelve to a carton. Each station comes wrapped in an individual bubble-pack bag with these components:

(2) 6-32 x 1" Phillips head finish screws
(1) six-conductor color-coded pigtail connector.

LOCATION

The RS504 is designed to be flush mounted in a single-gang back box. The box must be at least 3-3/4 inches high, 1-7/8 inches wide, and 1-1/2 inches deep (9.5 cm x 4.8 cm x 3.8 cm). The box must afford at least one-half inch (1.3 cm) of clear space around the sides and the back of the station module. These boxes are recommended:

Steel City 58371-3/4: 4" H x 2-1/8" W x 2-1/8" D (10.2 cm x 5.4 cm x 5.4 cm).
Raco 674: 4" H x 2-1/8" W x 2-1/8" D (10.2 cm x 5.4 cm x 5.4 cm).
Raco 245: 4-11/16" (11.9 cm) square box with Raco 838 3/4" raised-device cover.

If RS504 is used in conjunction with RS505, see KI-1500 (RS505 Universal Speaker Module Installation) for the required back box.

INSTALLATION

The RS504 should be installed in compliance with the National Electric Code, Canadian Electric Code, NFPA Part 70, and all applicable local codes. See the attached diagram (KM0805) for mechanical detail.

Step 1. If necessary, install a back box in a suitable location, in accordance with the manufacturer's recommendations and in compliance with the applicable codes. Make sure the back box is flush with the wall and that it is level.

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Step 2. If necessary, pull the field wiring through to the station location. We recommend you route the field wiring through a knock-out in the top of the back box. The wiring must have adequate strain relief.

Step 3. Using butt splices, stakons, or wire nuts, splice the 6-conductor connector using the attached diagram (KM0805) and this chart:

Pin Number	Color	Hook-up
1	black	call line
2	brown	shield (ground)
3	red	shield (ground)
4	orange	center tap (yellow) of transformer
5	white	door open circuit +
6	yellow	door open circuit -

Maximum length	
1500 ft.	(22 awg)
2400 ft.	(20 awg)
3800 ft.	(18 awg)

Note: If the "door open" circuit is a relay, solenoid, or other inductive circuit, a suppressor is required across the coil. If the operating voltage is 12-24 vac, the suppressor should be a varistor (recommended--G.E. part number V47MA2A, rated 27 VRMS). Failure to provide this suppressor may cause voltage spikes on the "door open" wires and cause false calls.

Step 4. Orient the RS504 with the CALL switch on top and plug the pigtail connector into the socket on the left side of the printed circuit board (connector is polarized--black wire should be on top).

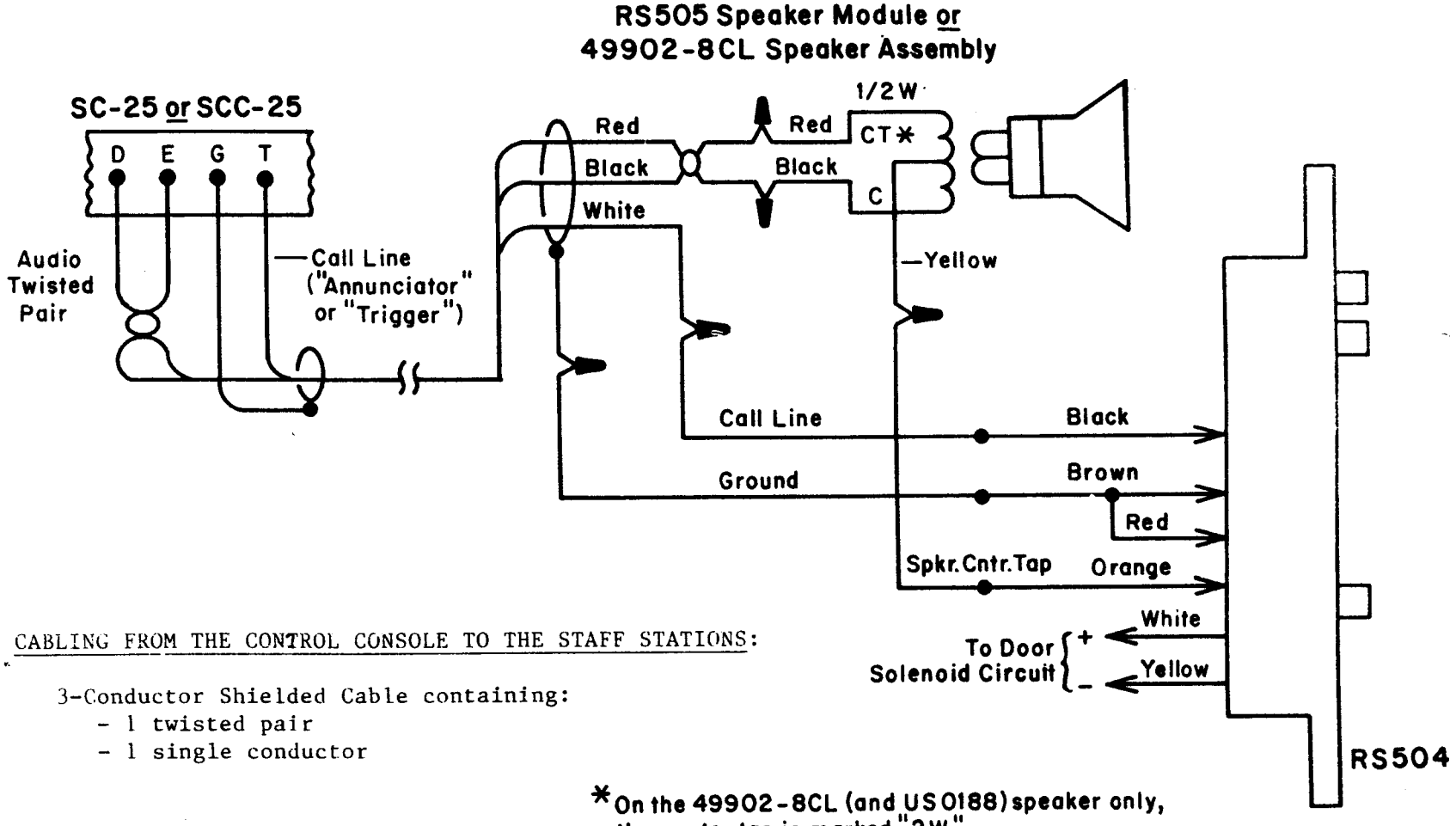
Step 5. Carefully tuck all wires into the back box, insert the RS504, and secure it with the two Phillips screws provided.

OPERATION

To place call, press CALL push button on station.

For two-way conversation: Normally, the room will be in privacy allowing the occupant to monitor any incoming audio, but not to be monitored by anyone outside. This is achieved by grounding the speaker center tap through the normally closed TALK button. To speak, press TALK button. This will remove ground and allow room speaker (RS505 or US0188) to be used as a microphone. Release TALK button to return to listen mode.

To open door, press DOOR push button. Door solenoid will remain open as long as switch is pushed.



CABLING FROM THE CONTROL CONSOLE TO THE STAFF STATIONS:

3-Conductor Shielded Cable containing:
- 1 twisted pair
- 1 single conductor

MAXIMUM LENGTH:

1500 ft. (22 AWG)
2400 ft. (20 AWG)
3800 ft. (18 AWG)

*On the 49902-8CL (and US0188) speaker only, the center tap is marked "2W."

Telecenter IV
STAFF STATION
with Speaker and RS504
KM0805 O