



NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

July 8, 2008

Mr. Frank Lacalle
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Reference: File S7232 Project 07NK28332

Product: USL – UUMW Listing of new model 26CT-LS speaker.
USL – UEAY, addition of alternate plastic material, type 8540, manufactured by Taita Chemical Co., Ltd., for speaker models 19CS, 19CST, 24C, 24CT, 26C, and 26CT, in File S7232, Volume 1, Section 1.

Dear Mr. Lacelle,

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

Identical to the subject model, which was submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File S7232, Volume 5.

This authorization applies only to the address on this letter.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

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Attachments:

Red-lined Report for File S7232, Volume 5, Section 1 (26CT-LS speaker)

Red-lined Report for File S7232, Volume 1, Section 1 (19CS, 19CST, 24C, 24CT, 26C, and 26CT speakers)

File S7232
Project 07NK28332

DATE

REPORT

on

SPEAKERS AND AMPLIFIERS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
(UUMW)

* * * * *

Complimentary Product Category
SPEAKERS
(UEAY)

JBL Professional
Northridge, CA

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DESCRIPTION

PRODUCT COVERED:

USL - Model 26CT-LS Loudspeaker, suitable for indoor/damp use. Also suitable for use in air handling spaces.

Products designated USL have been investigated to the requirements of UL Standard 1480, Standard for Safety for Speakers for Fire Alarm, Emergency, and Commercial and Professional Use, Fifth Edition.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

General - The speakers described in this Report are intended for fire alarm and emergency use, and also for general signaling use, and are intended for connection to a 70.7 V or 100 V rated source. The wattage taps for the 70.7 V configuration are 7.5 W, 15 W, 30 W, and 60 W. The wattage taps for the 100 V configuration are 15 W, 30 W, and 60 W. All tap settings are configurable by a rotary switch tap selector on the front of the enclosure.

Installation - The subject speakers are intended to be installed in conjunction with compatible Listed sound recording and reproducing equipment, the combination of which is intended to be installed in accordance with the applicable requirements of the National Electric Code, NFPA 70, the National Fire Alarm Code, NFPA 72, and the local authorities having jurisdiction.

Component Servicing - These products contain no user serviceable parts and are intended to be returned to the manufacturer or authorized service center for repair.

Intended Use - The Model 26CT-LS speaker has been evaluated for use as:

- A. General purpose commercial and professional speaker suitable for indoor/damp use. Also suitable for use in air handling spaces.
- B. Fire Alarm and emergency speaker suitable for indoor/damp use with non-DC supervised control panels/amplifiers. Also suitable for use in air handling spaces.

Refer to the following illustrations and associated descriptive pages. The general design, shape and arrangement shall be as illustrated unless otherwise specifically indicated.

RATINGS:

Model: 26CT-LS

Frequency Response: 75 Hz to 20 kHz -10dB

Input Voltage	Wattage Tap	Sound Level at 10 ft (dBa)
70.7 V rms	7.5	84
70.7 V rms	15	90
70.7 V rms	30	91
70.7 V rms	60	91
100 V rms	15	86
100 V rms	30	89
100 V rms	60	91

MARKING:

The product shall be legibly and permanently marked with the following information:

- A. Listee's name or authorized company identification.
- B. Model number designation.
- C. Electrical Ratings: Maximum voltage, maximum power, and sound pressure level.
- D. Reference to the installation instructions by the specific part number and revision date or level.
- E. Date of manufacture by week, month or quarter and year (any of which may be abbreviated or in an established or otherwise traceable code or serial number).
- F. The following text:
 - "Not for use with DC supervised control panels/amplifiers."
 - "Suitable for use in indoor/damp locations."
 - "Suitable for use in air handling spaces."
- G. The knob of the front-mounted rotary switch on Model 26CT-LS shall identify the power settings:
 - 70V: 7.5, 15, 30, 60
 - 100V: 15, 30, 60

INSTALLATION INSTRUCTIONS:

Installation Instructions/Wiring Diagram - The installation instructions indicated below shall be shipped with the indicated speaker model.

Speaker Model	ILL. No.	Installation Instructions	
		Part No.	Rev Level
26CT-LS	2	410469	001

MODEL C26CT-LS SPEAKER
FIG. 1 through FIG. 4

1. Baffle - R/C (QMFZ2) Constructed of Acrylonitrile Butadiene Styrene (ABS) Type 8540, manufactured by Taita Chemical Co., Ltd., rated 94V-0. Approximate overall dimensions of 250 mm (9-7/8 in.) diameter by 3 mm (1/8 in.) thick. Cemented to Enclosure rim. Provided with four integral mounting ears. Port in baffle, if provided, must be securely sealed and airtight. Refer to ILL. 3 for details. The port in the speaker baffle must be sealed, and airtight, by gluing the port cap, shown in ILL. 4, to the end of the port. Refer to ILL. 3 for details.
2. Enclosure - R/C (QMFZ2) Constructed of plated steel. Approximate overall dimensions of 186 mm (7-1/4 in.) high by 186 mm (7-1/4 in.) wide by 152 mm (6 in.) deep by 0.9 mm (0.036 in.) thick. Constructed with an integral rear compartment and cover for housing of terminal block. One electrical compression-type connector provided on rear compartment cover for securement of field wiring cables. Refer to ILL. 5 for details.
3. Grille - Constructed of painted steel with multiple perforated holes, approximately 1 mm (1/32 in.) diameter. Press fit into Baffle. Approximate overall dimensions of 215 mm (8-7/16 in.) diameter by 16 mm (5/8 in.) high by 0.9 mm (0.036 in.) thick. Refer to ILL. 6 for details.

MODEL C26CT-LS SPEAKER
FIG. 5 through FIG. 7

1. Woofer - The assembly employs a polypropylene coated paper cone with a butyl rubber surround and a stamped steel basket. Approximate overall dimensions of 161 mm (6-1/2 in.) diameter by 86 mm (3-1/2 in.) deep. Refer to ILL. 7 for details.
2. Tweeter - The assembly is concentrically mounted to the Woofer and employs a Titanium coated polyester diaphragm. Approximate overall dimensions of 52 mm (2 in.) diameter. Refer to ILL. 8 for details.
3. Printed Wiring Board - R/C (ZPMV2), approx overall dimensions 90 mm (3-9/16 in.) high by 96 mm (3-3/4 in.) wide by 1.6 mm (1/16 in.) thick, minimum flame rating 94V-0. Refer to ILL. 9 for parts list. Refer to ILL. 10 for component layout. Refer to ILL. 11 for schematic.
4. Transformer - Manufactured by Elytone. Part number 562-00036-00, rated 70.7 V and 100 V. R/C (OBJY2) insulation system, rated 105°C, Class A. Transformer is mechanically secured to the inside of the Enclosure by two screws. Refer to ILL. 12 for details.
5. Terminal Block - R/C (XCFR2) terminal block manufactured by Amp / Tyco Electronics. Part number 2ESD/2EHD, rated 300V, 15A. One 4-position terminal block provided, soldered to Printed Wiring Board.
5. Rotary Switch - Four position rotary switch manufactured by Elytone. Part No. SR2511-0304-15FOA-C9-S. Rated 30 V, 0.3 A. Refer to ILL. 13 for details.
6. Internal Wiring - R/C labeled appliance wiring, minimum 1/32 in. insulation, No. 20 AWG.

MODEL 26CT-LS Loudspeaker, Ceiling Bracket and Tile Rails
FIG. 8

General - One Ceiling Bracket and two Tile Rails are provided with each Model 26CT-LS loudspeaker. Ceiling Bracket may be used alone for reinforced mounting of speakers in non-suspended ceiling applications. Ceiling Bracket and Tile Rails are to be used together for mounting of speakers to the railing of suspended ceiling applications.

1. Ceiling Bracket - Constructed of plated steel with approximate overall dimensions of 277 mm (10-7/8 in.) diameter by 1.2 mm (0.048 in) thick. Provided with two tabs, approximately 76 mm (3 in.) wide by 28 mm (1-1/8 in.) high, for mounting of tile rails. Refer to ILL. 14 for details.
2. Tile Rails - Constructed of painted steel with V-shaped ends and approximate overall dimensions of 33 mm (1-5/16 in.) wide by 25 mm (1 in.) high by 655 mm (25-3/4 in.) long by 1.2 mm (0.048 in.) thick.

ILLUSTRATION INDEX
(File in front of first Illustration)

ILL.	DOCUMENT TITLE	DRAWING NO.	REV.
1	Reserved	-	-
2	Installation Instructions	410469	001
3	Baffle	020-001	A
4	Port Cap	PH04115L01	0
5	Enclosure	260-0002	B
6	Grille	120-0074	A
7	Woofers	339-0002	D
8	Tweeter	300-0109	C
9	Printed Wiring Board, parts list	340-0065	B
10	Printed Wiring Board, component layout	340-0065	A
11	Printed Wiring Board, schematic	340-0065	A
12	Transformer	SS5725-05	B
13	Rotary Switch	SR25N13R4	1
14	Mounting Bracket	040-0008	A