



March 17, 1999

Federal Communications Commission
Equipment Authorization Division,
Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21046

RE: KDZ480628-3700

Dear Sir:

This letter is to justify the use of antennas equipped with standard RF connectors for which the attached class 2 permissive change application pertains to. The antennas identified below and further described in this report are some of the antennas that have already been tested and granted by the FCC. In the original application however, the models identified stipulated reverse-TNC connectors. The antennas given in this report are identical to those with the exception of the connector. The antennas listed below will be equipped with standard N-type connectors, the preferred connectors of our field service engineers. The antennas are as follows:

- Cushcraft Model S2403N(X) - LXE P/N(s): 153599-0001 and 153600-0001
- Cushcraft Model S2400BFN(X) - LXE P/N(s): 153179-0001 and 153325-0001
- Cushcraft Model PC2145N(X) - LXE P/N(s): 460602-3020 and 460601-3020
- Cushcraft Model S406PLN(X) - LXE P/N: 481246-2400

Note: The (X) in the model names identify the gender of the antenna. The X would be replaced with an M for the male gender and an F for the female gender. LXE part numbers are given for each gender.

These antennas are professionally installed by LXE's Field Service Department or by LXE certified contractors only, as attested to below. And in so doing, it is the position of LXE that the use of standard RF connectors on the antenna coupled to the intentional radiator is permissible. The information provided below and herewith, attests to this position taken by LXE.

In an email received from Mr. Joe Dichoso dated September 11, 1998, he presented LXE with a list of criteria that must be met in order to justify professional installation(See attached copy). We are certain that we meet this criteria and offer the following information for consideration:

Marketing

These antennas, nor the radio are not offered for sale at retail or by mail order. The general public can not separately purchase this or any other antenna used by LXE in the installation of its systems. In fact, it may only be purchased directly from LXE Inc. through our trained staff of customer service personnel, and then only as a component of a new or existing system to be installed by LXE's Field Engineers. It is the firm policy of LXE Inc. to offer its systems only through direct sales and installation or through authorized resellers who meet stringent qualification criteria.

Professional Installation

LXE's systems are only installed by engineers who have demonstrated a thorough understanding of RF wireless systems and have passed an extensive three month company training and certification program. Authorized resellers who may install systems equipment must also be certified through in-house LXE training.



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In the case of the antennas described herein, other specialized, proprietary equipment offered by LXE is necessary to facilitate the actual installation. These antennas are designed especially for use with either a patent pending Ceiling Enclosure for wireless access points available only from LXE, or for commercial or industrial installations, such as warehouses or shipping ports. Further, a specially designed adapter cable is required to effect connection of the antenna to the access point transceiver unit. No individual system components are ever offered for sale to the general public and most can only be obtained directly from LXE. Unless these unique components are utilized in conjunction, attachment of the antenna to the transceiver is nearly impossible. The dissimilarity of the connector on the antenna and of that on the transceiver further act to inhibit improper installations. Even if unauthorized persons managed to obtain the required equipment, specialized knowledge and tools are still required for assembly of the parts into a functional system.

Application

LXE provides wireless computer systems to customers in various parts of the industrial business sector and does not offer its products for sale to the general public at large. The sale of such systems are predicated upon installation and service of this equipment by trained, experienced field personnel (most often from LXE's own Field Service department) who have successfully completed the prescribed company training courses.

Exhibits

In addition to the above assertion, I have included some information in the form of attached exhibits that will further attest to our professional installation claim.

Exhibit A - Criteria for Professional Installation as defined by the FCC.

Exhibit B - LXE Field Service Engineers Training Course Syllabus. This document gives an overview of the training course required by LXE and LXE contracted field service engineers.

Exhibit C - LXE Field Service Engineers Training Manual. This document is the training manual for the above defined course.

Exhibit D - Indented bill of materials for the "RTNC to N" pigtail cable assembly(LXE P/N: 155145-0001). This BOM indicates all the parts required to build this cable assembly. In addition, a drawing with corresponding LXE P/N is included in this exhibit that shows detail build techniques. The cable cannot be used properly without this drawing showing how to assemble it.

I trust that we have satisfied the criteria of professional installation and the commission will act in our favor. However if we are deficient in presenting our case, please let us know what additional information is required and we will supply it promptly. I appreciate your consideration.

Sincerely,

A handwritten signature in black ink that reads "R. Sam Wismer".

R. Sam Wismer
RF Approvals Engineer
LXE, Inc.

LXE, Inc. 125 Technology Parkway Norcross, GA 30092-9200 USA
TEL: (770) 447-4224 FAX: (770) 447-6928 EMAIL: rsw3347@lxe.com

**EXHIBIT A: E-mail from Mr. Joe Dichoso
Outlining the Criteria for
Professional Installation**

Wismer, Sam

From: Joe Dichoso[SMTP:JDICHOSO@fcc.gov]
Sent: Thursday, September 17, 1998 4:51 PM
To: Wismer, Sam
Subject: RE: Professional Installation -Reply -Reply

>-----
>From: Joe
Dichoso[SMTP:JDICHOSO@fcc.gov]
>Sent: Friday, September 11, 1998 9:33 AM
>To: Wismer, Sam
>Subject: Professional Installation -Reply
>
>Sam, In order to use a standard connector, you
>must justify professional installation.
>The applicant should confirm the following when
>justifying Professional installation:
>
>Professional installation
>To qualify for professional installation, you must
>explain why the hardware cannot simply be
>purchased and installed by the average
>(technically inclined) person
>
>1) Marketing
>* The device cannot be sold retail,to the general
>public or by mail order. It must be sold to
dealers.
>
>2) Requires professional installation;
> -installation must be controlled.
> -installed by licensed professionals (EUT sold
to
>dealer who hire installers)
> -installation requires special training (special
>programming, access to keypad, field strength
>measurements made) What is unique,
>sophisticated, complex, or specialized about your
>equipment which REQUIRES it to be installed by
a
>professional installer?
>
>3) Application
> -The intended use is not for the general public.
>For industry/commercial use.
>
>***If the above conditions are met, then you may
>use a standard connector and the authorization
will
>be subject to the above conditions.
>
>
>>> "Wismer, Sam" <wismer_r@lxe.com>
>09/11/98 09:03am >>
>>Joe,
>>We currently have a product, an intentional
>radiator, that utilizes a

>>standard antenna connector(Type N). It is
>currently undergoing testing a
>>test facility, however the Engineer is taking
issue
>with the use of this
>>connector. He cites 15.203 that states the
>antenna must employ a unique
>>coupling device. I contend that the section of
>15.203 that pertains to
>>professional installation applies to our
>equipment. I believe we can use
>>this type of connector because these units are
>professional installed by our
>>service group only. Further to this, they are
>installed such that they are
>>not accessible by unauthorized personell(Either
>installed in a ceiling
>>enclosure or a Nema type enclosure). If
>something happens to the unit or
>>antenna, our technical service group is called in
>for the repair. We do not
>>provide instruction for the customer to repair the
>equipment themselves. Can
>>you please confirm that this is an acceptable
use
>of the N connector for an
>>intentional radiator?
>>
>>Your attention to this matter is appreciated
>>
>>Kind Regards
>>
>>
>>Sam Wismer
>>RF Approvals Engineer
>>LXE, Engineering
>>Ext. 3654
>>
>>Check out our Website at:
>><http://www.lxe.com>
>>
>
>

**EXHIBIT B: LXE Field Service Engineers
Training Course Syllabus**

6200 Advance Training Syllabus

Date: 9/29/97

Total Hours: 81

I. Introduction to LAN Cable Building and Operating Specifications

A. Termination of 10Base5 LAN (Lab/Instr)	(3.0 hr)
1. Backbone and AUI	
B. Termination of 10Base2 LAN (Lab/Instr)	(1.0 hr)
C. Termination of 10BaseT LAN (Lab/Instr)	(2.0 hr)
D. Termination of Token Ring Type 1 Cable (Lab/Instr)	(2.0 hr)
E. Termination of Radio to Antenna Cable (Lab/Instr)	(1.0 hr)

II. Facility Analysis

A. System Overview (Instr)	(1.5 hr)
1. Message Flow	
B. Equipment Familiarization (Instr)	(.25 hr)
1. IFR	
2. Auto-Transmitter	
3. Cabling	
C. FA Folder (Instr)	(0.5 hr)
D. IFR Familiarization (Instr)	(.25 hr)
E. Site Familiarization (Instr)	(2.0 hr)
F. Facility Analysis Practice (Lab)	(9.0 hr)
1. FA Simulations	
2. Building FA	
G. FA Report (Instr)	(1.0 hr)

III. Preliminary System Installation

A. Inventory (Lab)	(1.0 hr)
B. FA Verification (Review FA)	(0.5 hr)
C. Customer Supplied Information	(0.5 hr)

IV. System Installation

A. Installation of LAN (Lab)	(2.0 hr)
B. System Configuration using ENG Notice (Lab)	(38 hr)
1. LDS, 3270, 5250 and Ansi	
C. Troubleshooting (Lab)	(6.0 hr)
1. Network	
2. 6200	
3. Terminals	

V. Peripherals

A. Modems (Lab)	(2.0 hr)
B. Scanners (Lab)	(1.5 hr)
C. Battery Maintenance (Instr)	(1.0 hr)

VI. Finals

A. Subnetting	(4.0 hr)
B. Quiz	(1.0 hr)
C. Critique	(0.5 hr)

VII. Additions

A. SNAC Box (Lab)	(8.0 hr)
B. Modem Elim. (Lab)	(4.0 hr)

**EXHIBIT C: LXE Field Service Engineers
Training Manual**

LXE INC.

INSTRUCTOR'S GUIDE FOR ACCELERATED INSTALL TRAINING

**LXE Accelerated Installation Training
Instructor's Guide**

Course Objective

This course is designed to accelerate the students ability to install the LXE's, Mercury Generation of wireless terminals. This will be accomplished through hands on experience in: Installation and testing of three types of Local Area Networks. The installation of radio to antenna cables (Heliax). Determine and program equipment parameters as per the customers requirements to interface with various host computers. Establish communications between an LXE terminal and the customers application, utilizing an LDS, 3270, 5250 or TCP/IP protocol. Troubleshoot installed equipment down to the faulty module and return the system to a normal operating condition.

Course Overview

Module I	Introduction to Cable Building
Module II	Installation Prerequisites
Module III	Installation of Mercury Generation Equipment and Host to End User Communications
Module IV	Trouble Analysis and Repair

Intermediate Objectives

Termination of 10Base5 Local Area Networks (1.5 hr)

Given an LXE Field service Tool Kit, students will be able to successfully install and test a 10BASE5 (Thicknet) network, including AUI attachments and transceivers.

Termination of 10Base2 Local Area Networks (1.5 hr)

Given an Lxe Field service Tool Kit, students will be able to successfully install and test a 10BASE2 (Thinnet) network.

Termination of 10BaseT Local Area Networks (2.0 hr)

Given an Lxe Field service Tool Kit, students will be able to successfully install and test a 10BASE T (Unshielded Twisted Pair) network.

Termination of Radio to Antenna Cable (Heliax) (1.0 hr)

Given an Lxe Field service Tool Kit, students will be able to successfully install and test Radio to Antenna cables (Heliax) .

Inventory Equipment, Verification of Mounting Locations and Customer Supplied Information

(2.0 hr)

Given an LXE Installation folder and a Shipping Invoice, students will be able to inventory all necessary equipment required to perform an installation and verify designated mounting locations.

Given a list of application requirements, the students will be able to obtain all information essential for the installation from the customer.

Installation of Local Area Network and Antenna Cables (1.5 hr)

Given an LXE Field Service Tool Kit and an Installation folder, students will be able to install Antenna Cables and Local Area Networks as per the Facility Analysis Report.

Loading Software (10 hr)

Given an LXE Field Service Tool Kit and the appropriate Flash Code, students will be able to properly load and configure LXE's Mercury Generation of equipment to communicate with the following host emulations: LDS, 3270, 5250 and TCP/IP.

LXE Accelerated Installation Training Instructor's Guide

Trouble Analysis**(8 hr)**

Given an LXE Field Service Tool Kit and an IFR, students will be able to diagnose failures in the Network Controller, RFU, Terminals and Local Area Networks. Once failures are diagnosed, students will be able to make the necessary repairs and bring the equipment to a normal operating condition.

Class Materials

Class materials listed below were calculated for a student roster of four. It is also required that the Course be instructed in Class Room A or B because of accessible host connections. All students are required to have an LXE Issued Tool Kit and Laptop Computer.

Parts Required**Thicknet/AUI**

50 ft	6200L331	Thicknet PVC Cable
12	6200L306	Connector N Type M PVC Screw
5	6200L308	Connector N Type F Term
1	6200L350	Boot, N Type Term
1	6200L313	N Type Grounding Kit
20 ft	6200L335	Standard AUI Cable
8	6200L300	Connector AUI F
8	6200L301	Connector AUI M
5	6200L360	E'net Transceiver(Vamp Clamp)

Thinnet

55 ft	6200L329	Thinnet, PVC Cable
19	6200L303	Connector, BNC M PVC Crimp
2	6200L340	Terminator, BNC M
2	6200L302	Connector, BNC T

Heliax

5 ft	9887L04	Cable, RFU/ANT, 1/2" Heliax
5	9887L03	Connectors, RFU/ANT 1/2" Heliax

Twisted Pair

40 ft	6200L32	Twisted Pair Cable
17	6200L312	Connector RJ45 Plug
3	6200L325	Twisted Pair Transceiver

Equipment

4	6220 series	6220 Net. Cont. or Equivalent
4	6280RFU	6280 RFUs or Equivalent

Module I

Introduction

Welcome Class

Introduce your self

Course Title

Building Layout (exit doors, bathrooms, break areas and telephones)

Class Introduction (If four or less students)

Questions

Handouts

Termination of 10base5/AUI Local Area Network (1.5 hr)**Instructional Lab**

AUI cable and Vamp Clamp/Transceiver

(Handout)

1) Handout Materials- One ft. Cable,

Max length.

Two Connectors and One Vamp

Pinout

Clamp/x'ceiver per Stu.

Cut Inst

2) Max cable lengths

3) Attachment points/Max attachments

4) Construct cable using cutting and
crimping tool. (Inst. then Stu.)

Termination of 10base2 Local Area Network (1.5 hr)

"T" adapters, Terminators, Transceiver

Instructional Lab

(Handout)

1) Handout Materials-Six ft. Cable and

Max length.

Two connectors per Stu.

Cut Inst.

2) Max cable lengths/Hubs & Concentrator

3) Construct cable using cutting and

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crimping tool. (Inst. then Stu.)

Termination of 10base T Local Area Network (2.0 hr)

Instructional Lab

Types of cables, Connectors/Transceiver
1) Handout Materials-Three ft. cable and
Two Connectors per Stu.
1) Max Cable lengths/Hubs & Concentrator
2) Construct cable using cutting and
crimping tool. (Inst. then Stu.)

(Handout)
Max length
Pinout

Termination of Radio to Antenna Cable (Heliax) (1.0 hr)

Instructional Lab

Types of LXE External RF Cables
1) Handout Materials-One ft. Cable and
One Connector per Stu.
2) Heliax (Installation Caution)
3) Construct cable using cutting
tools. (Inst. then Stu.)

(Handout)
Connector
Instruction

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Module II

Inventory of Equipment/Setup Information and Verification of Mounting Locations (2.0 hr)

Instructional Lecture

(Handout)

Inventory

- 1) Required RFUs, Network Controllers
- 2) Heliax, Host/Modem (DB 25)
- 3) AUI connectors/RJ45/BNC connectors
- 4) Terminals
- 5) Scanners/Holsters (If ordered)

Verification of Mounting

- 1) Network Controllers/AC Power
- 2) RFU Platform/AC Power
- 3) Ethernet Wiring/Heliax
- 4) Antennas

Equipment Setup Information

- 1) Host Information
 - A. TCP/IP (IP Address, Autologin, Gateway/Router, Host Name, Subnetmask Term. Type)
 - B. LDS Anych (Line Speed, Xon/Xoff, Retry DTE/DCE, IP Address/Gateway)
 - C. IBM 3270 (Line type, Sta. Add., XID, NRZ, LU Term, IP Address/Gateway)
 - D. IBM 5250 (Line Type, NRZ, Cnt. Type, Sta. Add., DTE/DCE, IP Address/Gateway)

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2) Terminal Parameters
A. Barcode Types/RS232
B. All Terminal Emulations

Module III

Installation of Local Area Network **(1.0 hr)** **None** **Instructional Lab**

1) Handout Materials
Stu #1 12 ft. of RG-58 cable, 2 BNC connectors,
2 "T" adapters and 2 terminators
Stu #2 12 ft. of RG-58 cable, 2 BNC connectors,
2 "T" adapters and 2 terminators
Stu #3 32 ft. of Type CL2 cable, 2 N Type connectors,
1 Vamp Clamp/X'ceiver, 1 terminator, one
Ground Terminator and one boot(Isolator)
Stu #4 12 ft. of UTP cable, 2 RJ45 connectors,
2 UTP transceivers
2) Stu. #1 At Station #1 Build Thinnet Network
3) Stu. #2 At Station #2 Build Thinnet Network
4) Stu. #3 At Station #3 Build Thicknet Network
5) Stu. #4 At Station #4 Build UTP Network

Installation of Antenna Cable **(.5 hr)**

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Instructional Lecture

- 1) Mounting Antennas
- 2) Mounting Pigtail
- 3) Grooming Cables

Note: No Cables
Will be built.
Stu. will use
Local Antennas

Load NMWS Software/Connect Equip.**(2.0 hr)****None Instructional Lab**

- 1) Each Student at Work Stations
- 2) Attach All Cables to Equip.

Note: Each Stu.
should be given
NMWS/Flash disks.

**Loading Flash Software for various Emulations
and RF Protocols** **(4.0 hr)****None Instructional Lab**

- 1) Stu. #1 Station #1 (LDS/NB)
Stu. #2 Station #2 (3270/NB)
Stu. #3 Station #3 (5250/SS)
Stu. #4 Station #4 (TCP/IP/SS)
- 2) Stu. #1 Station #2 (3270/NB)
Stu. #2 Station #3 (5250/SS)
Stu. #3 Station #4 (TCP/IP)
Stu. #4 Station #1 (LDS/NB)
- 3) Stu. #1 Station #3 (5250/SS)
Stu. #2 Station #4 (TCP/IP/SS)
Stu. #3 Station #1 (LDS/NB)
Stu. #4 Station #2 (3270/NB)
- 4) Stu. #1 Station #4 (TCP/IP/SS)
Stu. #2 Station #1 (LDS/NB)
Stu. #3 Station #2 (3270/NB)
Stu. #4 Station #3 (5250/SS)

(Handout)

Eng. Notice
#249

Note: Stu. uti-
lizing Eng.
Note. Install
Flash code.
After each
Step- Stu.
must proceed
thru Ini. Equi

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Configuration Files (2.0 hr)
None Instructional Lab (Handout)
1) Network Eng. Notice
2) Host 249. Setup
instruction should be at station

Setup terminals to operate with Configured System (2.0 hr)
None Instructional Lab (Handout)
1) Download Emulation to Terminals Eng. Notice
2) Configure Various Scanners 249
Scanner Handout
Setup handout
should be at station

Obtain Host Communications (1.0 hr)
Instructional Lab
1) Check Systems for operation
2) Initialize Equipment-Instructor
3) Start Next session at Loading Flash

Initialize equipment- Instructor
All students change stations
Start instructions at LOADING FLASH
AFTER THIRD CHANGE DO NOT INITIALIZE EQUIPMENT

Module IV

Trouble Analysis

(8.0 hr)

None Instructional Lab

1) Stu. #1 station #1
A.Network bug in LAN
2) Stu. #2 Station #2
A.RF bug in RFU (disconnect cable from radio)
Note: Only two
Stu. in Lab
while T'Shoot

3) Stu. #3 Station #1
4) Stu. #4 Station #2

5) Stu. #1 Station #2
6) Stu. #2 Station #1

7) Stu. #3 Station #2
8) Stu. #4 Station #1

9) Stu. #1 Station #1
A.Software bug in Controller (Incorrect Cons)

10) Stu. #2 Station #2
A.RF bug in Terminal

Quiz

(.5 hr)

Review Quiz and answer sheets before Quiz
Show Answers on transparency after test

(Handout)

Class Critique

(.5 hr)

(Handout)

CLASS QUIZ

What is the maximum length on one segment of ethernet 10base5 cable?

- A.** 100 ft.
- B.** 1600 ft.
- C.** 1000 ft.
- D.** 8200 ft.

What is the maximum length of AUI cable that can be used and still meet IEEE 802.3 standards?

- A.** 100 ft.
- B.** 64 ft.

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- C. 1000 ft.
- D. 164 ft.

What is the approximately distance between termination points along a 10base5 network cable?

- A. 8 ft.
- B. 4 ft.
- C. 2 ft.
- D. None of the above

The hole that is drilled into the thicknet ethernet to attach the transceiver should be made before applying the vamp clamp.

- A. T
- B. F

The maximum length of 10base2 cable that can be used in one segment and still meet IEEE 802.3 standards is 324 ft.

- A. T
- B. F

When terminating a thinnet cable the first cut should be aligned using point "A" on the stripping tool.

- A. T
- B. F

After terminating a thinnet cable with a 50 ohm load and placing a test meter at the opposite end, you should read approximately

- A. 100 ohms
- B. 50 ohms
- C. 40 ohms
- D. 25 ohms

After terminating both ends of a thicknet cable and applying a vamp clamp, a test meter would read _____ ohms from the ground pin to the center pin.

- A.** 10 ohms
- B.** 100 ohms
- C.** 50 ohms
- D.** 25 ohms

What is the maximum length of UTP cable that can be used on one segment and still meet IEEE 802.3 standards?

- A.** 100 ft.
- B.** 300 ft.
- C.** 400 ft.
- D.** 500 ft.

When terminating a UTP cable a DB 15 connector should be attached to one end of the cable and a RJ45 connector should be attached to the other end.

- A.** T
- B.** F

Heliax cable is connected between which two devices

- A.** Network Controller and RFU
- B.** Host computer and the RFU
- C.** Host computer and the antenna
- D.** None of the above

Heliax cable is terminated with a TNC crimp on connector.

- A.** T
- B.** F

When should the inventory of the equipment to be installed be completed?

- A.** After verifying mounting locations
- B.** First arrival on site
- C.** When a Connector or cable is found to be missing
- D.** None of the above

Where should you be able to obtain the IP Addresses to be loaded into the system be found.

- A.** Job Folder
- B.** Use LXE defaults
- C.** Customer's MIS Department
- D.** None of the above

Barcode information is obtained from which source.

- A. Job Folder**
- B. Use LXE defaults**
- C. Customer's MIS Department**
- D. None of the above**

Given two lengths of thicknet cable measuring 1000 ft. apiece and they are to be installed on the same network, what is required to make this installation meet IEEE 802.3 standards

- A. Repeater**
- B. Modems**
- C. Thinnet hub**
- D. None of the above**

What is the maximum number of devices that can be attached to one segment of thicknet cable.

- A. 50**
- B. 70**
- C. 75**
- D. 100**

All Terminal firmware contains which two emulation softwares

- A. LDS and 5250**
- B. 5250 and 3270**
- C. TCP/IP and LDS**
- D. TCP/IP and 3270**

What information is typed into the Inet on Ethernet field after booting the unit and stopping it at the first countdown

- A. Flash revision**
- B. The host IP address**
- C. The hardware (MAC) address**
- D. The IP address of the unit to be installed**

Given a host IP Address of 192.152.6.6 and a Network Controller IP Address of 141. 186.6.7, what device is required in the network to make the Network controller capable of communicating to the host

- A. Repeater**
- B. Transceiver**
- C. Modem**
- D. Router**

Flash code is loaded into a controller using a HD 3 1/2" floppy

- A. T**
- B. F**

Both ends of a 10base5 (thicknet) network must be grounded.

- A. T**
- B. F**

The transmit frequency of the RFU in a 450 Narrow Band configuration must be set to a higher of the two frequencies in the frequency pair.

- A. T**
- B. F**

Name _____ **Date:** _____

**EXHIBIT D: LXE Parts List and Drawing
for the Reverse-TNC to N
Cable Assembly(155145-0001)**

Bill of Material Consolidated Cost Report (USD)

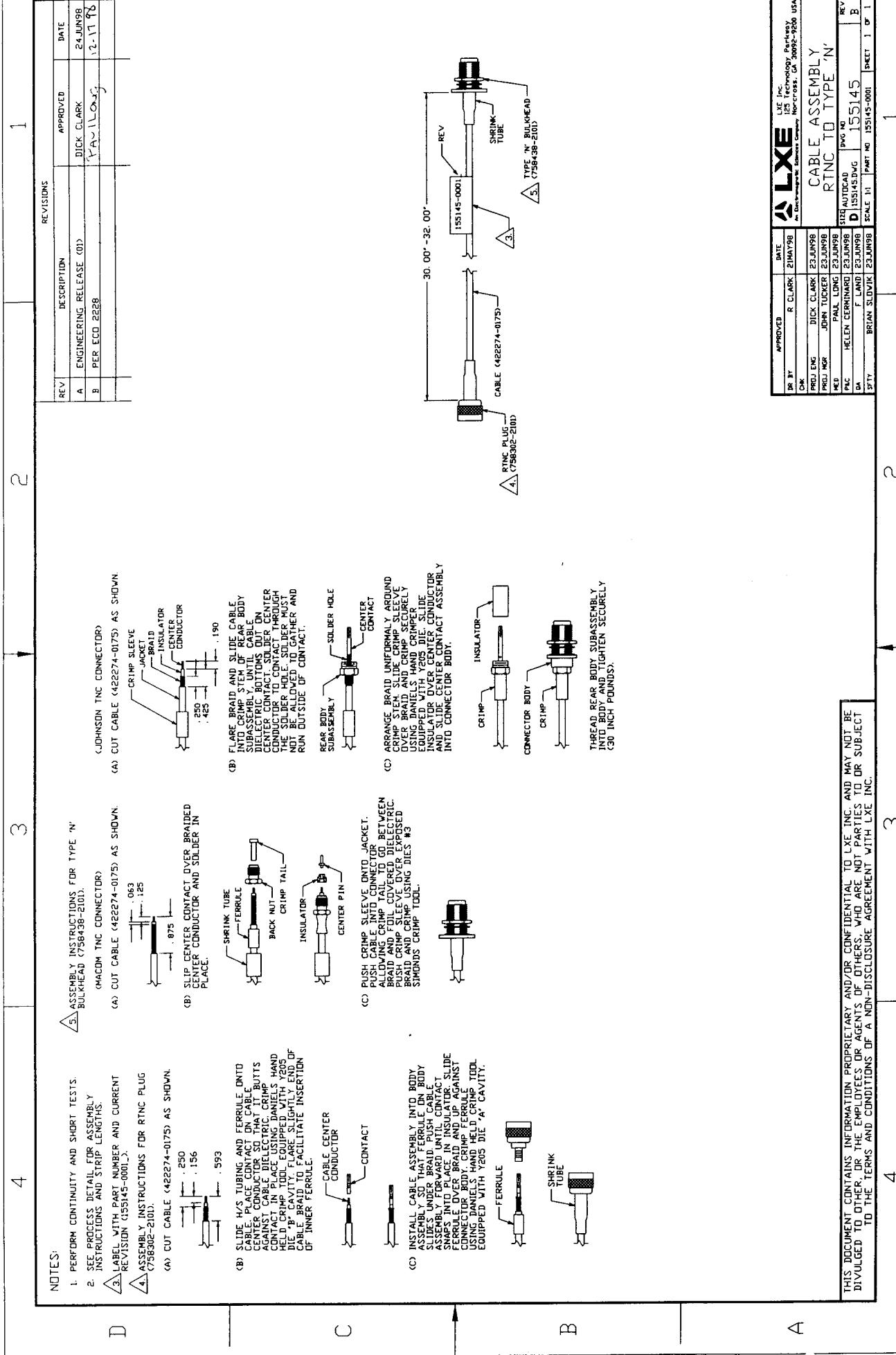
Report Date: 15-OCT-1998 16:40

Page: 1

* This cost may include this level material, material overhead or routing costs
This cost includes previous levels not displayed on the report.

Bills of Material Consolidated Cost Report
(USD)Cost Type: Frozen
Revision Date: 15-OCT-98 12:00
Alternate BOM:

***** End of Report *****



APPROVED	DATE
DR. BY R. CLARK	21 MAY 98
OK	125
PROJ. ENG. DICK CLARK	23 JUN 98
PROJ. MGR. JOHN TUCKER	23 JUN 98
MECH. PAUL LONG	23 JUN 98
PLC. HELEN CERNINARD	23 JUN 98
DA. F. LANDI	23 JUN 98
STY. BRIAN SUDIK	23 JUN 98

APPROVED	DATE
DR. BY R. CLARK	21 MAY 98
OK	125
PROJ. ENG. DICK CLARK	23 JUN 98
PROJ. MGR. JOHN TUCKER	23 JUN 98
MECH. PAUL LONG	23 JUN 98
PLC. HELEN CERNINARD	23 JUN 98
DA. F. LANDI	23 JUN 98
STY. BRIAN SUDIK	23 JUN 98

LXE Inc. 125 Technology Parkway Norcross, GA 30092-9200 USA An Electronic Sciences Company	
LXE	
CABLE ASSEMBLY RTNC TO TYPE 'N' REV B TYPE 'N' BULKHEAD (758302-2101)	

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