DIGITAL TRANSMISSION SYSTEM 828AF DIGITAL MULTIPLEXER PARTS LIST AND ORDERING INFORMATION

1. GENERAL

- 1.01 This section is a cover sheet for the Telco Systems Fiber Optics Corporation Digital Transmission System 828AF Digital Multiplexer Parts List and Ordering Information. This section is reproduced with permission of Telco Systems Fiber Optics Corporation and is the equivalent of Telco practice 830-102-003, Issue 2.
- 1.02 Whenever this section is reissued the reason(s) for reissue will be listed in this paragraph.
- 1.03 This section presents a parts list for the 828AF Digital Multiplexar, including accessories, options, and cables.
- 1.04 If corrections are required in the attached document, use Form-3973 as described in Section 000-010-015.
- 1.05 If equipment design and/or manufacturing problems should occur, refer to Section SW 010-522-906 for procedures on filing an Engineering complaint.

2. ORDERING PROCEDURE

2.01 For information concerning equipment and parts availability contact Telco Systems, Order Administration Department, in Norwood, Massachusetts, at:

1-800-44-SALES 1-617-551-0300

2.02 To order additional copies of this practice, use TELC 365-407-851SW as the section number.

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TELC 365-407-851SW

3. REPAIR/RETURN

3.01 For defective modules and assemblies contact the Repair and Return Department at the following number:

8:00 a.m. - 5:00 p.m. (617) 551-0300 - Ext. 2778

Attachment: Telco Systems Fiber Optics Corporation Digital Transmission System

828AF Digital Multiplexar Parts List and Ordering Information

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TELCO SYSTEMS FIBER OPTICS CORPORATION SECTION 830-102-003 Norwood, Massachusetts 02062 Issue 2, April 1988

> DIGITAL TRANSMISSION SYSTEM 828AF DIGITAL MULTIPLEXER PARTS LIST AND ORDERING INFORMATION

- 2. PARTS LIST
- 2.01 TABLE A provides ordering information for the 828AF multiplexer. Required ordering options for the 828AF is contained in TABLE B. Ordering information for accessories is contained in TABLE C. Ordering information for cables is contained in TABLE D.
- 3. ORDERING INFORMATION
- 3.01 For information concerning 828AF equipment and parts availability contact Telco Systems, Order Administration Department, in Norwood, Massachusetts at:

1-800-44-SALES 1-617-551-0300

information and for general revisions.

- 3.02 A valid Purchase Order Number must be provided at the time the order is placed.
- 3.03 Alternatively, a Telco Systems Telephone Equipment Order form (see Figure 3-1) accompanied by a valid Purchase OrOrder Administration Department.

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TABLE A. 828AF Multiplexer Assembly and Part Number List

PART NUMBER PART DESCRIPTION QUANTITY REQUIRED

ACX026G3 Cage Assembly 1

Power Supply Module (-48 or -24 Vdc) 2

PSX016-1 -48 Vdc PSX016-2 -24 Vdc

CCA120G1 High-Speed Common Card 2

CCA120G2 High-Speed Common Card (1 for unprotected)

with DS-3 X-bit TELTRAC

Control MPU Card

CCA137G20 Standard (w/FOX-2/2R, obsolete 5/30/88)

CCA162G1 Standard (w/FOX-2/2R, TELTRAC)

Transceiver (XCVR) Card

CCAl2IG1 Transceiver XCVR (BIC, -9.0 dBm) Laser (1 for unprotected)

CCAl2IG2 Transceiver XCVR (FC, -9.0 dBm) Laser

LS INTER T1 Card Up to

CCA050G1 Configures T1 AIS to be All 1s CCA124G1 Configures T1 AIS to be All 0s CCAl6IG2 B8ZS/AMI Switch Selectable

CCA006G1 LS INTER T1C Card Up to 7

Preemphasis/Buildout Networks 1 per (Cable length to DSX-1) LS INTER T1 card

None Required T1, 0 - 100 feet CCA062G1 T1, 101 - 350 feet CCA062G2 T1, 351 - 655 feet

Preemphasis/Buildout Networks 1 per (Cable length to DSX-LC) LS INTER T1C card

None Required T1C, 0 - 100 feet

CCA062G1l T1C, 101 - 250 feet

CCA062G12 T1C, 251 - 400 feet

CCA062G13 T1C, 401 - 550 feet

CCA062G14 T1C, 551 - 655 feet

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TABLE B. 828AF Multiplexer Equipment Options

PART NUMBER PART DESCRIPTION QUANTITY REQUIRED

Optional MPU II Card 1

CCA135G1 TELTRAC Communication with FOX-2/2R

RAC II Card in FOX-2R

CCAl2IG4E Transceiver (XCVR) (1 for unprotected)

2

(BIC**, MM, 0 dBm) Laser

CCAl2lG1lE Transceiver (XCVR)

(BIC**, SM, -24 dBm) LED

CCAl2lG3E Transceiver (XCVR)

(BIC**, SM, -3.0 dBm) Laser

LS INTER T2 Card Up to 6

CCA007G1 LS Inter T2 Card (MAIN) CCA068G1 LS Inter T2 Card (STBY)

LS INTER OPTICAL T2 Card Up to 6

CCA148G1 LS Inter Optical T2 Card, SM (MAIN)
CCA149G1 LS Inter Optical T2 Card, SM (STBY)
CCA148G2 LS Inter Optical T2 Card, MM (MAIN)
CCA149G2 LS Inter Optical T2 Card, MM (STBY)

Buildout Modules 1 per

(Cable Length to DSX-2) LS INTER T2 card

AXX029G5 0 - 200 feet AXX029G4 201 - 400 feet AXX029G3 401 - 600 feet AXX029G2 601 - 800 feet AXX029G1 801 - 1000 feet

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TABLE C. 828AF Equipment Accessories

PART NUMBI	ER PART DESC	CRIPTION	QUANTITY REQUIRED
Fuse and Alarm Panel		1 per 12 828AFs, or	
ACXO25G1	-48 Vdc	1 per 7-ft. rack	
ACXO25G3	-24 Vdc	1 per 6 828AFs or	
ACXO43G1	-48 Vdc	1 per 7-	ft. rack
CCA008G2	Manual Control Interface Card		

AXXO72G1 Maintenance Kit (-48 Vdc) (with Maintenance Interface Card)

AXX072G6 Maintenance Kit (-48 Vdc)

(without Maintenance Interface Card)

CCA058G1E Maintenance Interface Card [21

CCA158G1E Remote Alarm Card (RAC II) [3)

CCA176G1 T1 Monitor Card [4]

AXXO04G1 (-48 Vdc) Fuse and Relay Kit (spare) AXXO04G2 (-24 Vdc) Fuse and Relay Kit (spare)

AXXO67G1 CEV Conversion Kit (contains the BNC bracket and cable support)

^{*}Necessary to access FOX-2 (power supply) alarm points.

^{**}BIC (Biconical Optical Connector)

AXXO68G1 CEV Shelf Kit (contains the CEV Shelf)

FA0488-1 Air Baffle

ACXO33G1 Air Baffle/Fiber Trough - to be installed in rack, as required, for use with more than four pairs of (MAIN and STBY) LTU cards.

Relay Rack

FAR004-3 7-feet x 23-inches FAR004-7 9-feet x 23-inches FAR004-12 11.5-feet x 23-inches

Functionality:

- Note 1: Module performs LED test, low-speed loopback, high-speed BER reporting.
- Note 2: Module capable of testing or replacing T1 or T1C low-speed cards.
- Note 3: Module performs TELTRAC communication, DS-3 X-bit bridging, eight alarm points, and eight contact closures.
- Note 4: Module capable of monitoring and bridging T1 or T1C low-speed signals.

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TABLE C. 828AF Equipment Accessories (Cont.)

PART NUMBER PART DESCRIPTION QUANTITY REQUIRED

FO (Fiber-Optic) Entrance Panel

ACXO03G1 FO Interface Panel, BIC* AdXO03G2 FO Interface Panel, FC

AXX003G1 FO Connector Interface, SM/BIC AXX003G2 FO Connector Interface, SM/FC

DSX-1 Panels

OSX002 DSX-1 PNL, 56 CKT, 23", BANTAM OSX003 DSX-1 PNL, 25 CKT, 23", 310 OSX021 DSX-1 PNL, 28 CKT, 23", 310

Wire-Wrap Blocks

HTB013-1 Wire-wrap block (segmented into four 10 x 5 pins) with a 50-pin Amphenol connector interface (male)

Optical Accessories

FO Attenuators

OSFOIL BIC Attenuator, SM, 5 dB
OSF012 BIC Attenuator, SM, 10 dB
OSF013 BIG Attenuator, SM, 15 dB
OSF014 BIC Attenuator, SM, 20 dB
LTA002-10 FC Attenuator, SM, 15 dB
LTA002-11 FC Attenuator, SM, 20 dB

LTA002-8 FC Attenuator, SM, 5 dB LTA002-9 FC Attenuator, SM, 10 dB

BIC (Biconical Optical Connector)

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TABLE D. 828AF Equipment Cables

PART NUMBER PART DESCRIPTION QUANTITY

Ribbon Cable As required

AWX104G1 Mux-to-Mux

AWX104G2 Mux-to-Fuse and Alarm Panel AWX104G3 Mux-to-Mux (to bypass Air Baffle)

ACXO25 Fuse and Alarm Panel DC Power Cable (Wire Harness)

AWX127G1 Fuse and Alarm Panel to MUX 1
AWX127G2 Fuse and Alarm Panel to MUX 2
AWX127G3 Fuse and Alarm Panel to MUX 3
AWX127G4 Fuse and Alarm Panel to MUX 4
AWX127G5 Fuse and Alarm Panel to MUX 5
AWX127G6 Fuse and Alarm Panel to MUX 6
AWX127G7 Fuse and Alarm Panel to MUX 7
AWX127G8 Fuse and Alarm Panel to MUX 8
AWX127G9 Fuse and Alarm Panel to MUX 9
AWX127G10 Fuse and Alarm Panel to MUX 10
AWX127G11 Fuse and Alarm Panel to MUX 11

ACXO43 Fuse and Alarm Panel Cables

AWX127G12 Fuse and Alarm Panel to MUX 12

AWX182G* Power Cable Harness from Fuse and Alarm Panel to Mux

AWX181G* RAC-II: 828A/828AF (J7) to Fuse and Alarm Panel (J4)

AWX184G* RAC-II: 828A/828AF (J7) to 50-pin Amphenol connector (female) to interconnect to connectorized wire-wrap block HTB013-1

AWX185G* RAC-II: Extension cable from AWX184G* to customer supplied wire-wrap pin block (bare wires)

AWX104G5 Ribbon cable from 828A/828AF (Jl) to Fuse and Alarm Panel (J3)

^{*} G number indicates length of cable, which can be ordered in lengths of 6, 12, 18, 24, 30, 36, 48 and 60 feet.

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TABLE D. 828AF Equipment Cables (Cont.)

PART NUMBER PART DESCRIPTION OUANTITY

TELTRAC Cables

As Required

- AWX105G* Connect Fuse and Alarm Panels (ACXO25/ACXO43)(modular-to-modular connectors)
- AWXI25G* Connect Fuse and Alarm Panel (ACXO25/ACXO43) to 828/M560 system (modular-to-dual row)
- AWXI26G1 Three-foot patch cable to connect Fuse and Alarm Panel (ACXO25/ACXO43) to TELTRAC cable (modular-to-female Sub D)
- AWX126G2 Three-foot patch cable to connect Fuse and Alarm Panel (ACXO25/ACXO43) to TELTRAC cable (modular-to-male Sub D)
- AWXO71G** Connect TELTRAC patch cable to TELTRAC system (male Sub D-to-male Sub D)
- AWX181G* Connect RAC II Communication via 828AF backplane (J7) to Fuse/Alarm panel (ACXO43G1)
- * G number indicates length of cable, which can be ordered in lengths of 6, 12, 18, 24, 30, 36, 48 and 60 feet.
- ** G number indicates length of cable, which can be ordered lengths of 5-foot increments, up to 75 feet. (Example: AWX07lG5 is five feet).

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TABLE D. 828AF Equipment Cables (Cont.)

PART NUMBER PART DESCRIPTION AVAILABLE LENGTHS

Optical Patch Cords

```
      OSJ001G8
      SM, Jumper, BIC-BIC, SIE, 8 Ft

      OSJ001G15
      SM, Jumper, BIC-BIC, SIE, 15 Ft.

      OSJ001G30
      SM, Jumper, BIC-BIC, SIE, 30 Ft.

      OSJ001G45
      SM, Jumper, BIC-BIC, SIE, 45 Ft.

      OSJ001G60
      SM) Jumper, BIC-BIC, SIE, 60 Ft.

      OSJ002G75
      SM, Jumper, BIC-BIC, SIE, 75 Ft.

      OSJ001G90
      SM, Jumper, BIC-BIC, SIE, 90 Ft.

      OSJ002G*
      SM, Jumper, FC-FC

      OSJ011G*
      MM, Jumper, BIC-BIC

      G8,15,30,45,60
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Optical Pigtails

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OSP001G8 SM, Pigtail, BIC, SIE, 8 Ft.
OSP001G15 SM, Pigtail, BIC, SIE, 15 Ft.
OSP001G24 SM, Pigtail, BIC, SIE, 24 Ft.
OSP001G30 SM, Pigtail, BIC, SIE, 30 Ft.
OSP001G40 SM, Pigtail, BIC, SIE, 40 Ft.
OSP001G45 SM, Pigtail, BIC, SIE, 45 Ft.
OSP001G60 SM, Pigtail, BIC, SIE, 60 Ft.
OSP002G* SM, Pigtail, FC, SIE G8,15,24,30,40,45
OSP004G* MM, Pigtail, BIC, SIE Same as above
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Miscellaneous Cables

0SC001 T1 Cable, 30 Pair, 22GA, Solid

* Optical Patch Cords/Pigtails are available in lengths listed above.

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Telephone Equipment Order

TELCO PURCHASE ORDER NO.

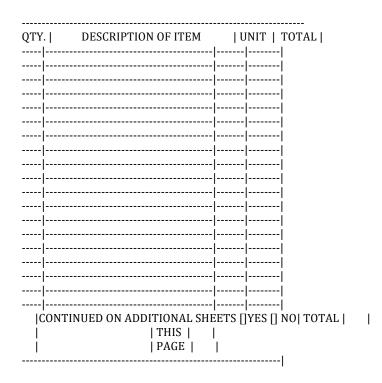


Figure 3-1. Telco Systems Telephone Equipment Order Form