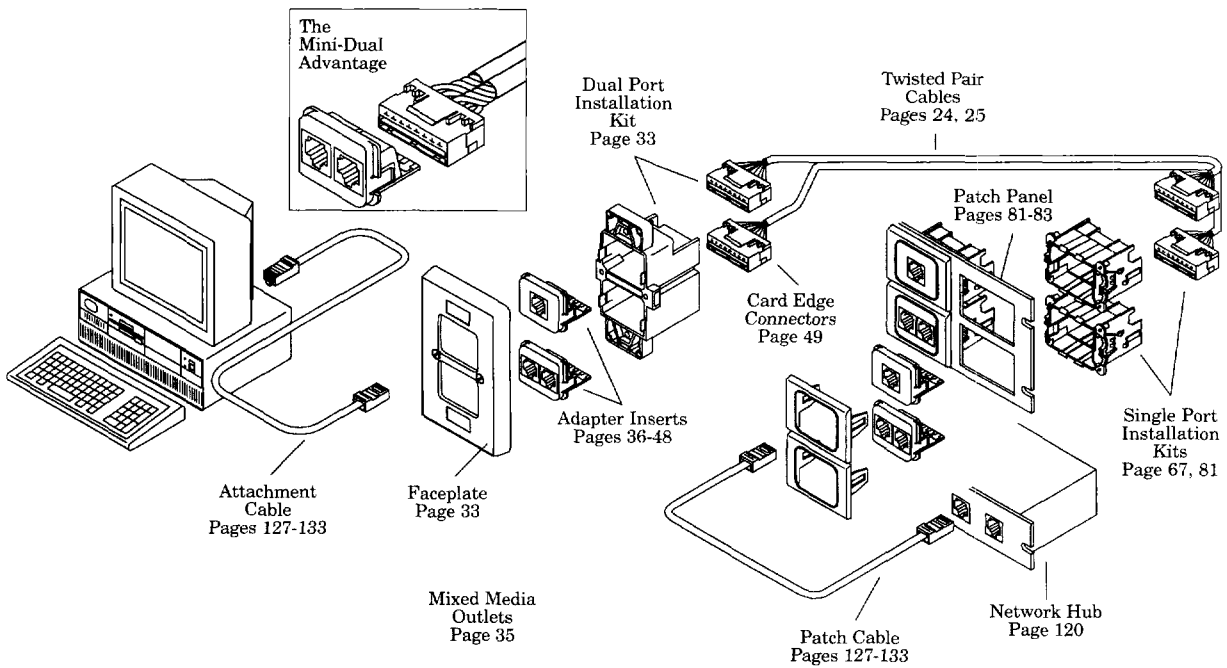


AMP Communications Outlet

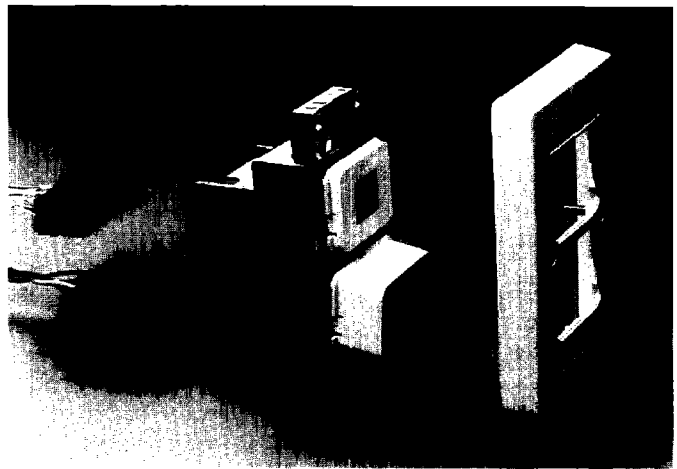


HOW TO ORDER AN AMP COMMUNICATIONS OUTLET SYSTEM


- Choose the appropriate installation kit to meet your cable (shielded or unshielded) and mounting requirements:
 - Dual port kits (page 33) for fixed wall, Access Floor Workstation Module and surface mounted applications.
 - Single port kits (page 67) for modular furniture, AMP Furniture Outlet, AMP Surface Mount Outlet and undercarpet applications.
- Choose the appropriate inserts to match your applications:
 - Category 5 inserts pages 36-37
 - Category 4 inserts page 38
 - Category 3 inserts pages 39-43
 - 150 ohm STP inserts page 44
 - Balun inserts page 45-47
 - Impedance matching adapters page 45

Make sure to order inserts for patch panels as well as workstation outlets.
- Choose the appropriate faceplate (page 33).
- Choose the appropriate shielded or unshielded patch panel kit (pages 81 thru 83).

Wire the Wall Once



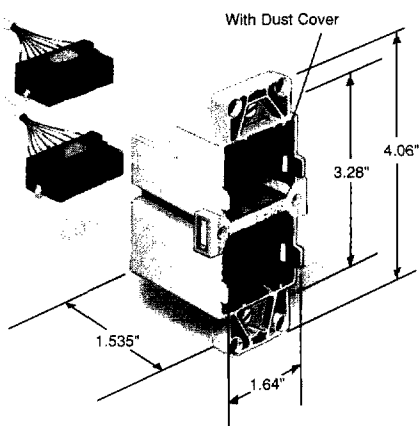
Features

- Maximizes cable usage with dual inserts
- Category 5 compliant
- Supports all twisted pair cable types
- Easy to install
- UL Listed File No. E81956 
- Can be reconfigured in minutes
- Initial and life cycle cost benefits

Dual Port Installation Kits

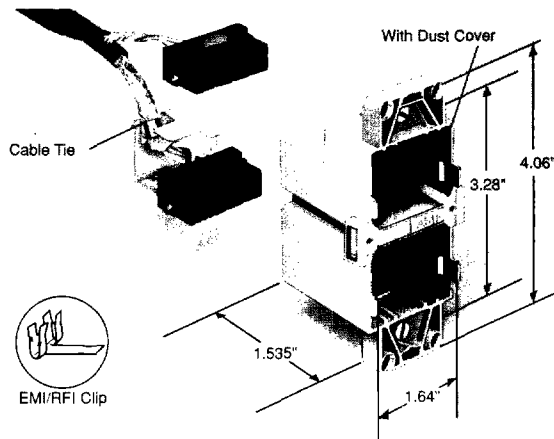
UNSHIELDED

This kit is recommended for installations utilizing unshielded twisted pair cable. It includes all components necessary to install an unshielded AMP Communications Outlet in an electrical box (4-inch square recommended, 2-1/2" depth including device cover). Kit components are: an unshielded connector housing with a protective cover, two card edge connectors and Instruction Sheet number IS 408-3199.



SHIELDED

This kit is recommended for installations utilizing 100 or 150 ohm shielded twisted pair cable. It includes all components necessary to install a shielded AMP Communications Outlet in an electrical box (4-inch square recommended, 2-1/2" depth including device cover). Kit components are: a shielded connector housing with a protective cover, two card edge connectors, one ground shield, one EMI/RFI clip, one cable tie, and Instruction Sheet number IS 408-3199. If shielding of both ports is required, an additional ground shield may be purchased separately (part number 555725-1, see page 49).



	AMP-BARREL Edge Connector	110 Style Edge Connector	AMP-BARREL For Pistol Grip Tool
Unshielded	555600-1	558621-1	569546-1
Shielded	555601-1	558622-1*	569547-1

*Not suitable for use with Type 1 Cable.

Faceplate Kits

FOR DUAL PORT INSTALLATION KIT IN STANDARD ELECTRICAL BOX OR AMP SURFACE MOUNT BOX (See page 60)

or AMP Double Gang Recessed box (See page 34)

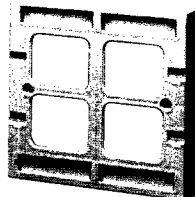
AMP recommends that a double gang box be used in all initial installations to allow for future expansion. A double gang faceplate with one side blank is initially installed, and is replaced with a double gang faceplate as additional outlets are needed.

Note: Add suffix (-#) for color:
-1 (Light Almond); -3 (Black);
-4 (NEMA Gray); or -5 (White)

Single Gang
Part No. 555650
Part No. 558510
(Iconable)



Double Gang
Accommodates Two
Installation Kits
Part No. 555670
Part No. 558512
(Iconable)



Double Gang
One Side Blank
Part No. 556340-1

Note: Requires removal of inside mounting ears from installation kits.

FOR IBM SURFACE BOX

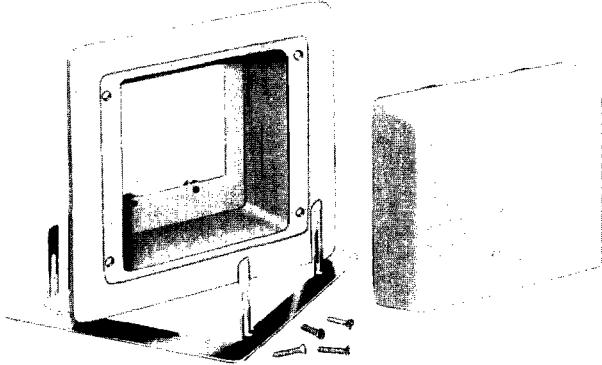
Part No. 556574-1

This faceplate is designed to be used in place of the faceplate on IBM Surface Box Part No. 4760486 or equivalent for AMP Communications Outlet surface-mount applications.

Note:
For support items see page 49
For Blank Insert Cover see page 48.

Dual Gang Recessed Box and Cover

Recessed Box with Mounting Bracket and four screws. Mounts directly to drywall or paneling (1/4 to 5/8 inches thick). Accepts two Dual Port Installation Kits (page 33). Optional snap-on cover. Order faceplates separately.



Part No. 556598-1
Recessed Box with Mounting Bracket and four screws

Part No. 556599-1
Snap-On Cover

Surface Box

Single Gang
Part No. 558251*
Double Gang
Part No. 569499*

*Add suffix for color -1 (Almond) -2 (Black) -3 (White) -4 (Gray)



These surface mount boxes also accept faceplates for:
110Connect pages 26-27
Data Connectors pages 50-53

The single gang box is compatible with Wiremold 400, 800 and similar surface raceways.

The double gang box is compatible with Wiremold 800, 2300 and similar surface raceways.

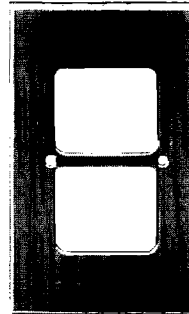
Semtron Faceplates

Semtron, Inc. manufactures single gang faceplates for the AMP Communications Outlet in stainless steel and brass as well as special plates to allow the standard installation kits (555600 and 555601) to be mounted in Walkerdect 500/501 pedestal series and Hubbell "LO-CON" above-floor models FR-15/35/355/55. These and other custom faceplates are available only from:

Semtron, Inc.,
G-6465 Corunna Rd.
Flint, MI 48504
Phone: 1-800-732-9080

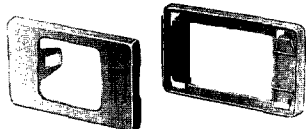


Part No. HUBACO
Single Gang Mounting Plate for Hubbell "LO-CON" service fitting



Part No. 500ACO
Single Gang Mounting Plate for Walker 500/501 floor fittings

Modular Furniture Single Port Outlets



See page 67

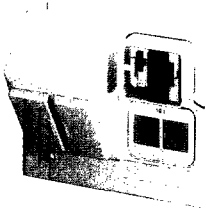
AMP Furniture Outlet



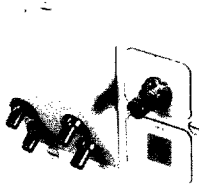
See page 67

Fiber Optic/AMP Communications Outlet

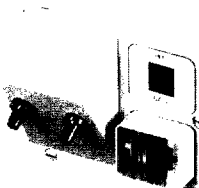
- All part numbers include fiber optic adapters
(All AMP Communications Outlet components are sold separately. See pages 36-48.)



Description	Keying	Part Numbers
2 Port FSD to ST-Style w/ 2 AMP Communications Outlet Cutout	A-B	502503-1
	M-S	502503-2
1 Port FSD to ST-Style/ AMP Communications Outlet Wall Outlet	A	502571-1
	B	502571-2
	M	502571-3
	S	502571-4



Description	Part Numbers
	Without Receptacle Box
4 Port ST-Style w/ 2 AMP Communications Outlet Cutout	502604-1

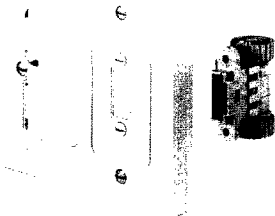


Description	Part Numbers
	Without Receptacle Box
2 Port ST-Style w/ 2 AMP Communications Outlet Cutout	502604-2

Thinnet Tap/AMP Communications Outlet

Coax

Part No. 556341-1 combines an AMP Communications Outlet with an AMP Thinnet Tap (included) for 10BASE2 Ethernet.



Adapter inserts plug into the card edge connectors supplied with installation kits and are used to adapt the cabling system to various communications devices. The standard color for adapter inserts is light almond. The inserts may also be obtained in black, gray and white. These custom colors carry a premium price and require a longer lead time.

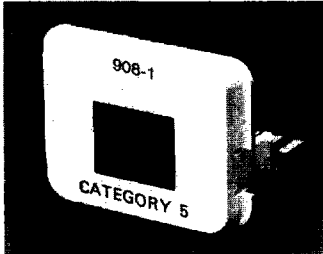
Color	Part Number Suffix
Light Almond	-1,-2
Black	-3
Gray	-4
White	-5

AMP Communications Outlet/Category 5 Inserts for 100 Ohm Cable

AMP Category 5 inserts are UL verified to comply with all requirements of TIA/EIA-568A. Dual inserts allow the combination of two applications on one 4-pair cable. Two 10BASE-T or two 16 Mbps token ring links may safely be combined on a single 4-pair Category 5 cable within certain

design parameters. However, in order to allow transparent migration to 100 Mbps or faster data rates, it is recommended that Mini-Dual 2-pair x 2-pair (see page 25) be used with dual Category 5 inserts.

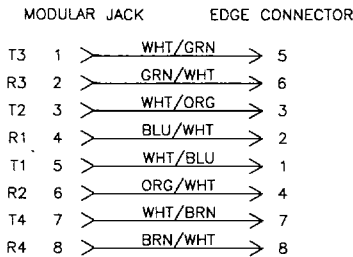
Single Inserts



T568A WIRING

Part No. 558908-1
unshielded

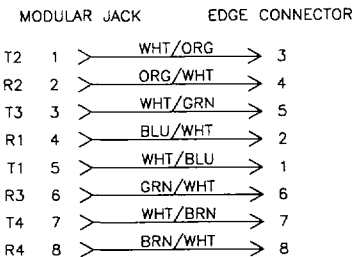
Part No. 557257-1
shielded



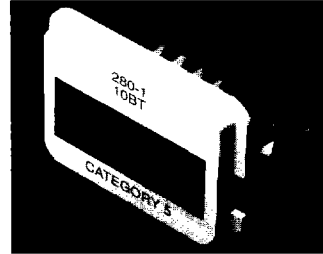
T568B WIRING

Part No. 558909-1
unshielded

Part No. 557262-1
shielded



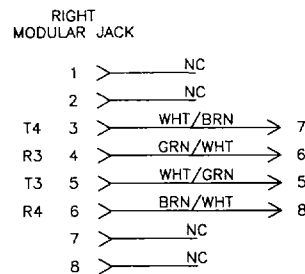
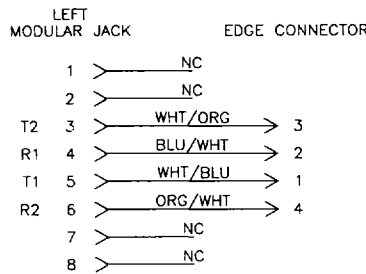
Dual Inserts



DUAL TOKEN RING WIRING

Part No. 558907-1
unshielded

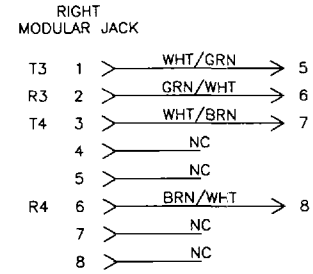
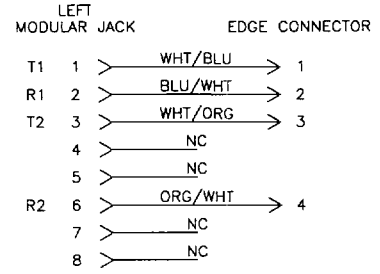
Part No. 557283-1
shielded



DUAL 10/100BASE-T WIRING

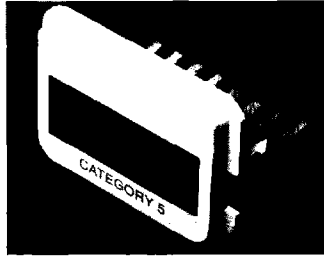
Part No. 557280-1
unshielded

Part No. 557284-1
shielded



AMP Communications Outlet/Category 5 Inserts for 100 Ohm Cable

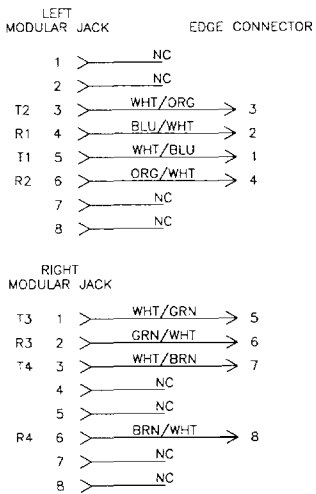
Dual Inserts (Continued)



WORKSTATION OUTLETS

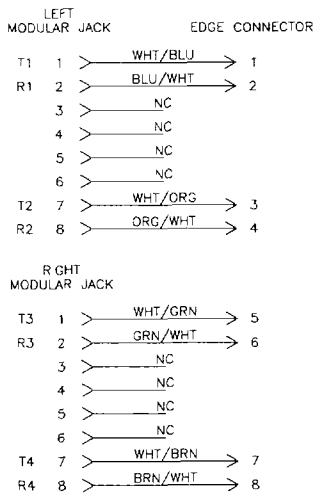
TOKEN RING & 10/100BASE-T WIRING

Part No. 557260-1
unshielded



DUAL ATM/TP-PMD WIRING

Part No. 557272-1
unshielded

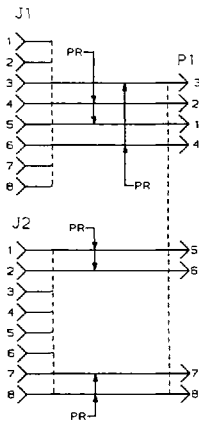


TYPICAL NEAR END CROSSTALK LOSS (NEXT) FOR CATEGORY 5 INSERTS (PINS 4&5/3&6).

Frequency MHz	Near End Crosstalk Loss (dB)	
	Category 5 Spec	Category 5 Inserts
1	>65	75
4	>65	72
8	62	67
10	60	65
16	56	61
20	54	59
25	52	57
31.25	50	55
62.5	44	49
100	40	43

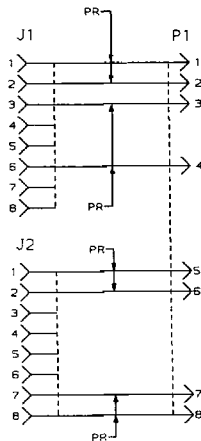
TOKEN RING & ATM/TP-PMD WIRING

Part No. 558913-1
unshielded



10/100BASE-T & ATM/TP-PMD WIRING

Part No. 558914-1
unshielded



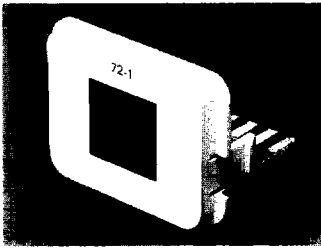
Flush Mount

AMP Communications Outlet

AMP Communications Outlet/Category 4 Inserts for 100 Ohm Cable

WORKSTATION OUTLETS

Single Inserts



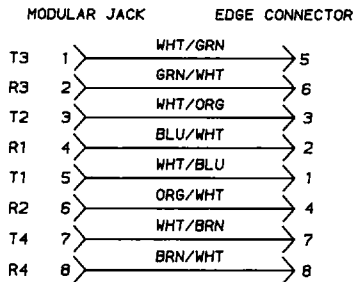
T568A WIRING

Part No. 555672-1

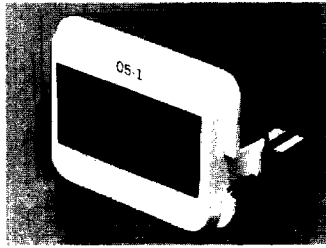
unshielded

Part No. 555643-1

shielded



Dual Inserts



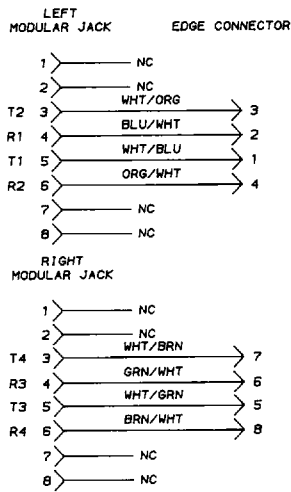
DUAL TOKEN RING WIRING (4&5/3&6)

Part No. 555605-1

unshielded

Part No. 557220-1

shielded



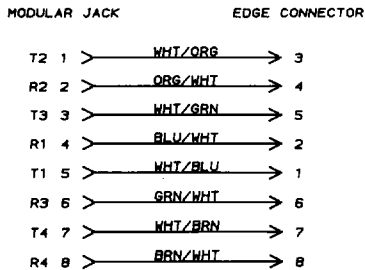
T568B WIRING

Part No. 555621-1

unshielded

Part No. 555669-1

shielded



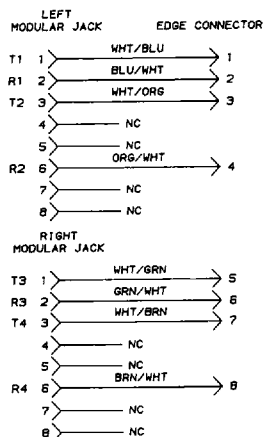
DUAL 10BASE-T WIRING (1&2/3&6)

Part No. 555606-1

unshielded

Part No. 555636-1

shielded

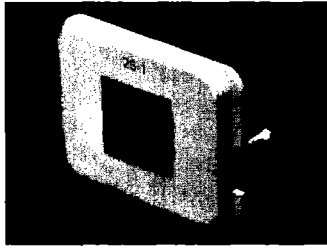


Flush Mount

AMP Communications Outlet

AMP Communications Outlet/Category 3 Inserts for 100 Ohm Cable

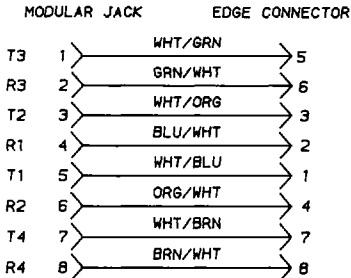
8-Position Modular Jack



WORKSTATION OUTLETS

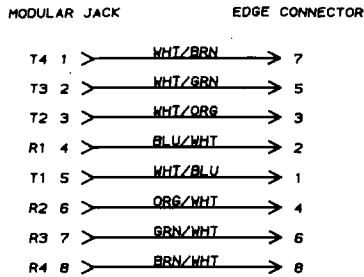
T568A WIRING
10BASE-T & TOKEN RING
COMPATIBLE

Part No. 555672-1
unshielded
Part No. 555643-1
shielded



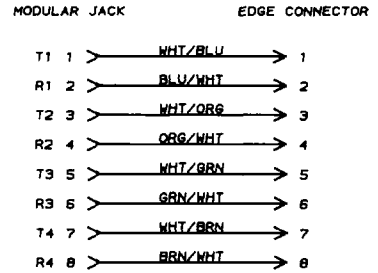
USOC RJ61X WIRING

Part No. 555625-1
unshielded, non-keyed
Part No. 555625-2
unshielded, keyed



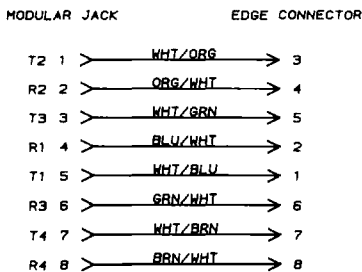
STRAIGHT-THRU WIRING

Part No. 555630-1
unshielded, non-keyed
Part No. 555630-2
unshielded, keyed
Part No. 555647-1
shielded, keyed



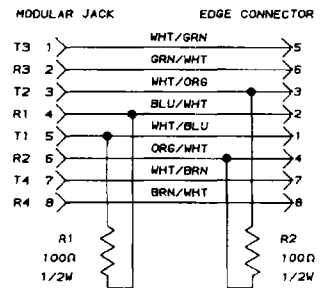
T568B WIRING
10BASE-T & TOKEN RING
COMPATIBLE

Part No. 555621-1
unshielded, non-keyed
Part No. 555621-2
unshielded, keyed
Part No. 555669-1
shielded, non-keyed



T568A WIRING
WITH ISDN TERMINATING
RESISTORS

Part No. 555681-1
unshielded, keyed
Part No. 555603-1
shielded, non-keyed



Note: Part numbers 555672, 555643, 555621 and 555669 actually provide Category 4 performance and so are suitable for Category 3 systems.

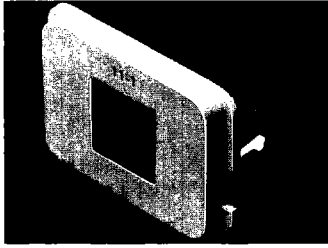
Flush Mount

AMP Communications Outlet

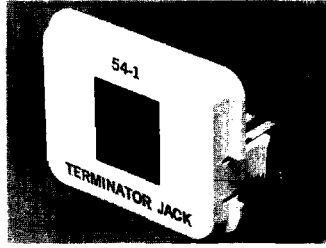
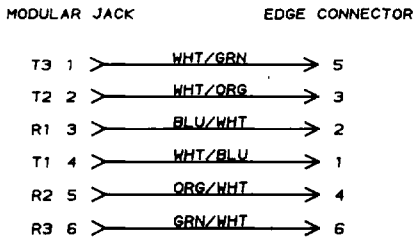
AMP Communications Outlet/Category 3 Inserts for 100 Ohm Cable

WORKSTATION OUTLETS

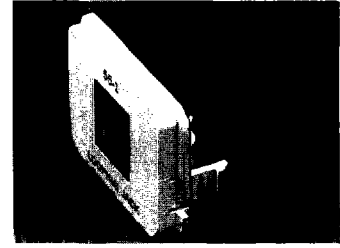
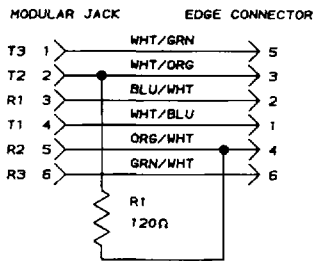
6-Position Modular Jack



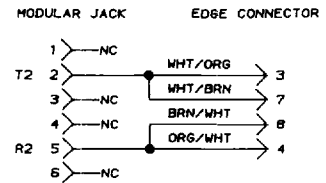
Part No. 555611-1
RJ11/RJ14/RJ25 compatible



Part No. 555654-1
Terminator Jack
AppleTalk (PhoneNet) compatible with terminating resistor.

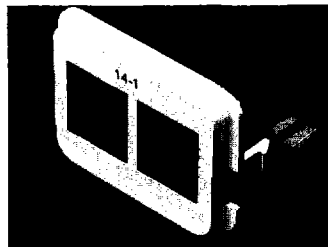


Part No. 555655-1
Looping Jack AppleTalk (PhoneNet) compatible looping jack.

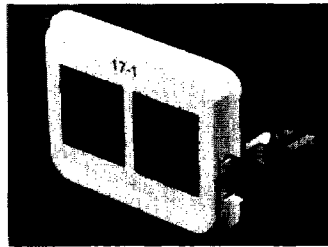
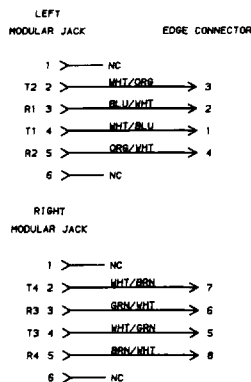


Dual 6-Position Modular Jack

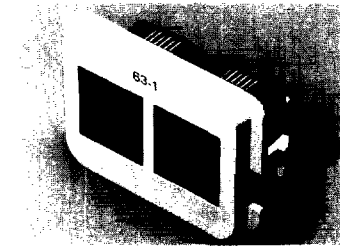
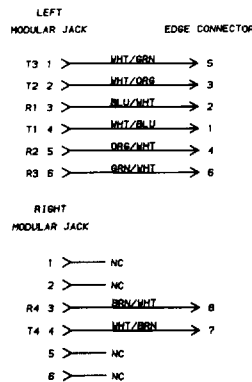
Flush Mount



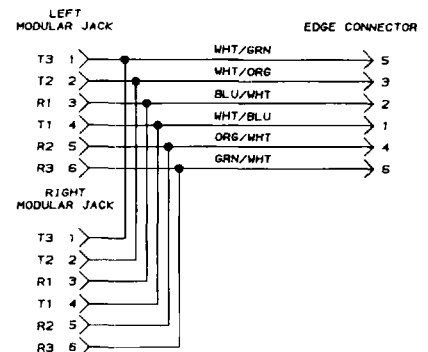
Part No. 555614-1
(2-pair/2-pair)



Part No. 555617-1
(3-pair/1-pair)



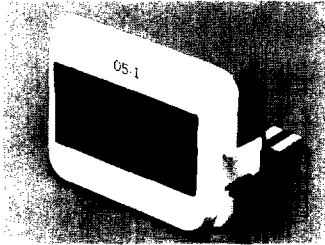
Part No. 555663-1
Line sharing



AMP Communications Outlet

AMP Communications Outlet/Category 3 Inserts for 100 Ohm Cable

Dual 8-Position Modular Jack



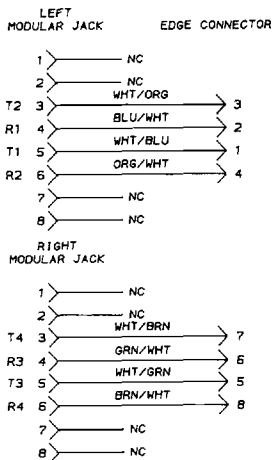
DUAL TOKEN RING WIRING

Part No. 555605-1

unshielded

Part No. 557220-1

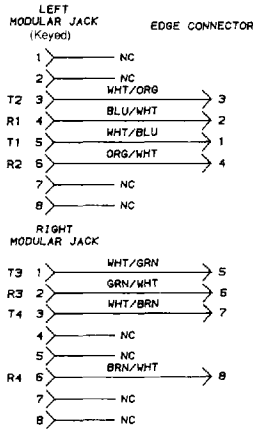
shielded



TOKEN RING & 10BASE-T WIRING

Part No. 555608-1

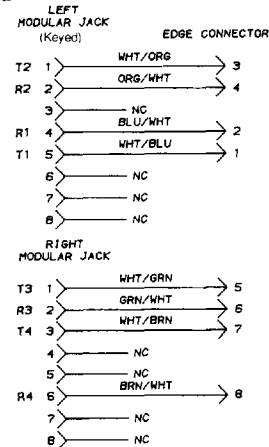
unshielded



10BASE-T & 2-PAIR WIRING

Part No. 555604-1

unshielded



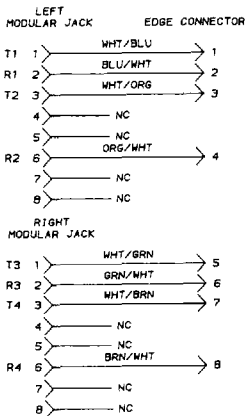
DUAL 10BASE-T WIRING*

Part No. 555606-1

unshielded

Part No. 555636-1

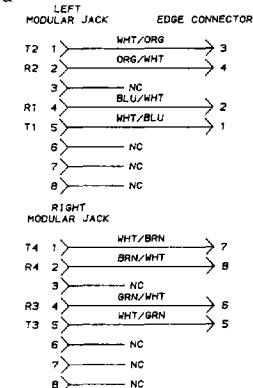
shielded



DUAL 2-PAIR WIRING

Part No. 555607-1

unshielded



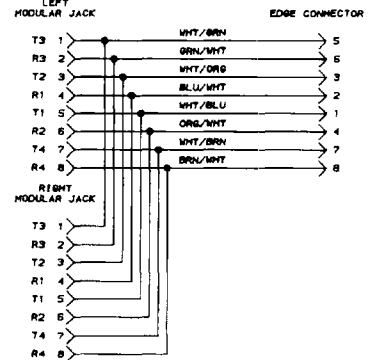
DUAL ISDN (T568A) WIRING WITHOUT TERMINATING RESISTORS

Part No. 555648-1

unshielded

Part No. 555622-1

shielded



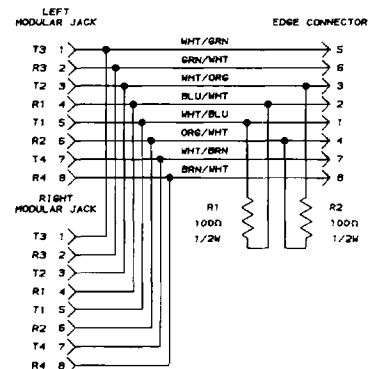
DUAL ISDN (T568A) WIRING WITH TERMINATING RESISTORS

Part No. 555680-1

unshielded

Part No. 555602-1

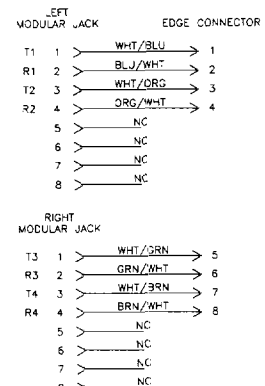
shielded



DUAL STRAIGHT-THRU WIRING

Part No. 555696-1

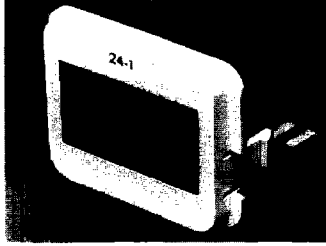
unshielded



*Note: Part numbers 555605, 557220, 555606 and 555636 actually provide Category 4 performance and so are suitable for Category 3 systems.

AMP Communications Outlet/Category 3 Inserts for 100 Ohm Cable

Combination 6- & 8-Position Modular Jacks

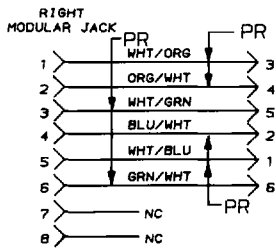
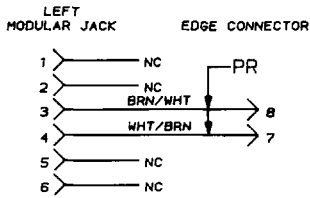


WORKSTATION OUTLETS

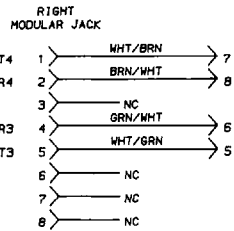
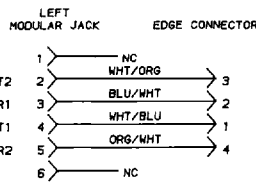
Flush Mount

AMP Communications Outlet

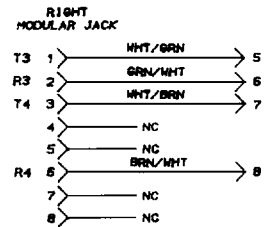
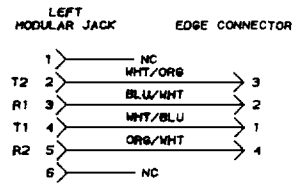
Part No. 555662-1
6-Position (1-pair) and
8-Position (3-pair)



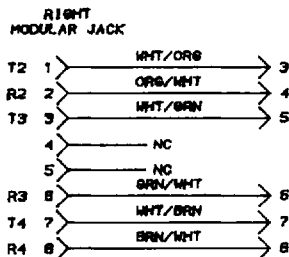
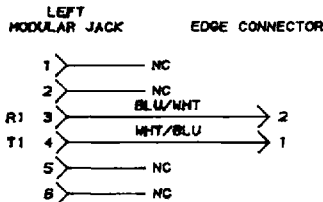
Part No. 555624-1
(non-keyed)
Part No. 555624-2
(keyed) 6-Position (2-pair) and 8-Position
(2-pair) Modular Jacks



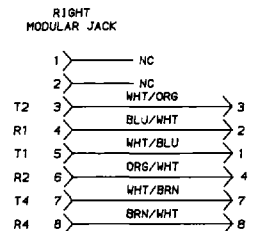
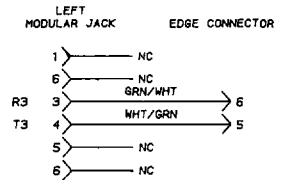
Part No. 555658-1
6-Position (2-pair) and 8-Position (2-pair)
10BASE-T compatible



Part No. 555656-1
AT&T Definity System



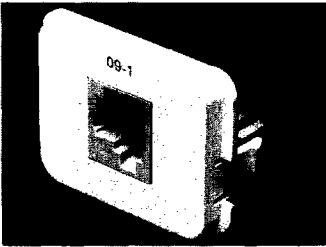
Part No. 555660-1
6-Position (1-pair) and
8-Position (3-pair)



AMP Communications Outlet/Category 3 Inserts for 100 Ohm Cable

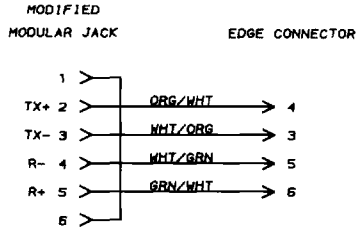
DEC Modified Modular Jack (MMJ) Inserts

WORKSTATION OUTLETS

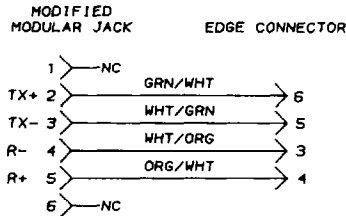


Part No. 555609-1
Straight-Thru (one-to-one) wiring

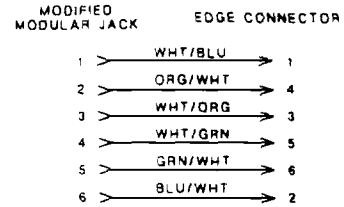
Part No. 555613-1
Compatible with DEC option H-3113-A



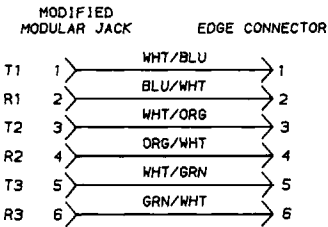
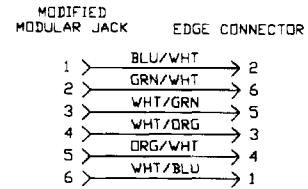
Part No. 555620-1
Compatible with DEC option H-3113-B



Part No. 555676-1
Modified Modular Jack
DECserver

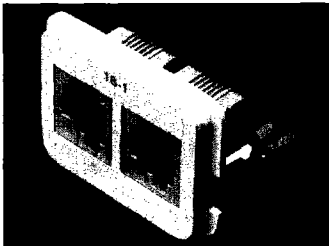


Part No. 557242-1

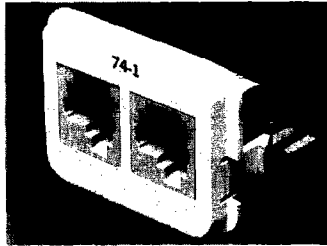
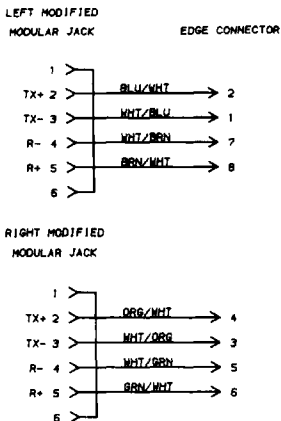


Dual 6-Position Modified Modular Jacks

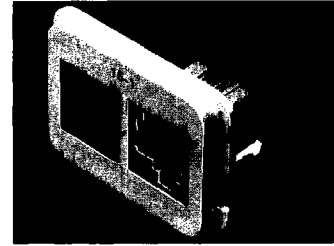
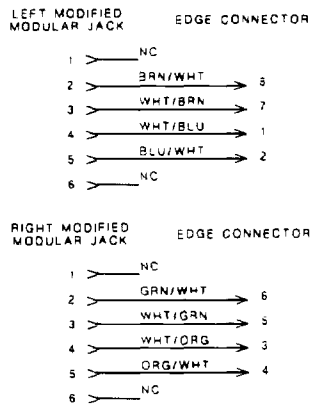
Combination Dual 6-Position Modular Jacks



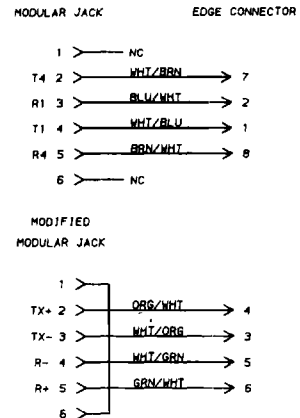
Part No. 555618-1
(2-pair/2-pair)
Dual DEC Modified Modular Jack (MMJ)
compatible with DEC option H-3113-A



Part No. 555674-1
(2-pair/2-pair)
Dual DEC Modified Modular Jack (MMJ)
compatible with DEC option H-3113-B



Part No. 555615-1
(2-pair/2-pair) RJ11 and DEC Modified
Modular Jack (MMJ) (H-3113-A)



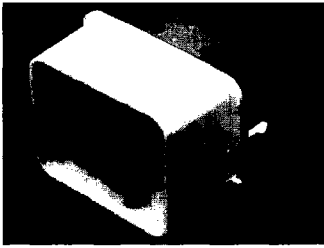
Flush Mount

AMP Communications Outlet

AMP Communications Outlet/Inserts for 150 Ohm 2-Pair Shielded Cable

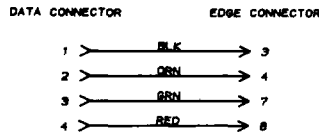
WORKSTATION OUTLETS

Four-Position Data Connector

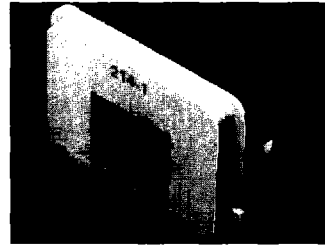


Functionally equivalent to IBM #8310574
IEEE 802.5 compatible

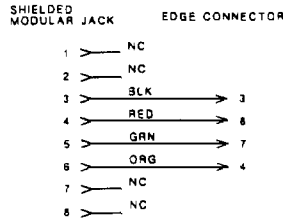
Part No. 555631-1



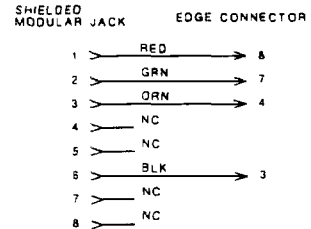
Shielded 8-Position Modular Jack



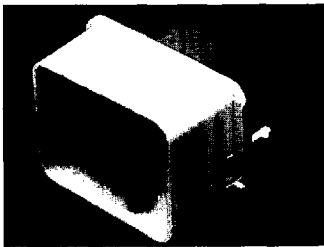
Part No. 557243-1
Token Ring wiring



Part No. 557214-1
10BASE-T wiring

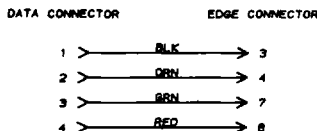


EMC Data Connector

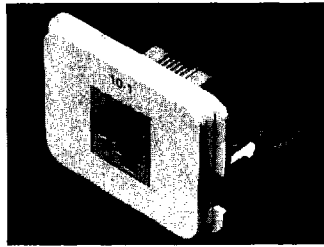


Performance equivalent to IBM #73G7500
TIA/EIA-568A compliant

Part No. 558910-1

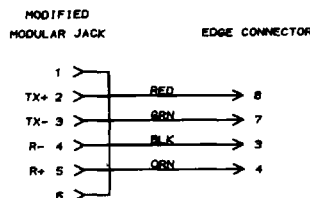


DEC Modified Modular Jack (MMJ) Insert

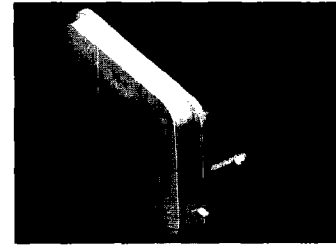


DECconnect compatible

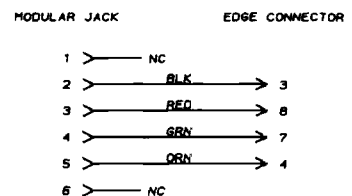
Part No. 555610-1
(not shielded)



6-Position Modular Jack



Part No. 555616-1
(not shielded)

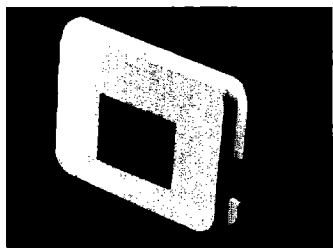


Flush Mount

AMP Communications Outlet

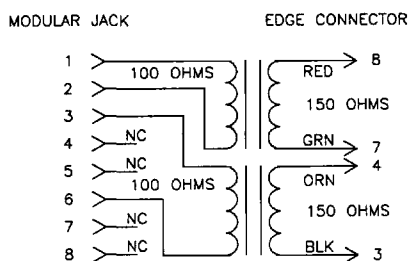
AMP Communications Outlet/Impedance Matching Inserts

2-Position 100/150 10BASE-T

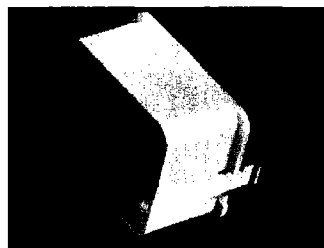


Part No. 555694-1

100 ohm to 150 ohm impedance matching for 10BASE-T on Type 1 cable

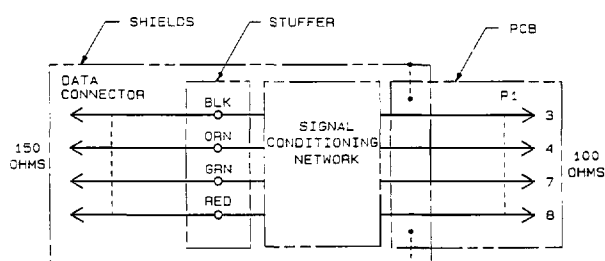


Four-Position Data Connector



Part No. 555649-1

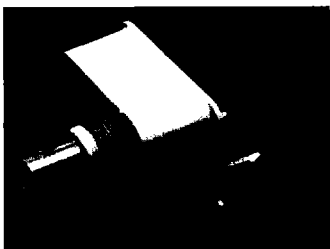
150 ohm to 100 ohm impedance matching for token ring on shielded 100 ohm cable



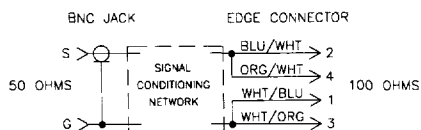
Balun Inserts for 100 Ohm Cable

Thinnet (10BASE2) Balun

Thinnet (10BASE2) compatible 50 ohm Coax to 100 ohm unshielded twisted pair.
Distance - 350' max.
Not compatible with 10BASE-T.

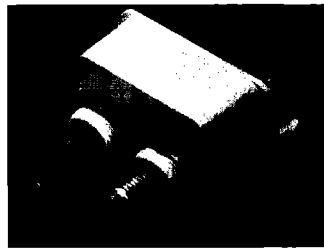


Part No. 555675-1

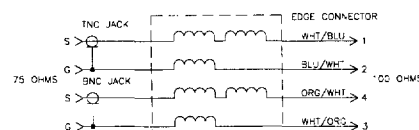


VS/OIS Balun

VS/OIS compatible Dual 75 ohm Coax to 100 ohm unshielded twisted pair
Distance-300' max., 50' min.



Part No. 555635-1

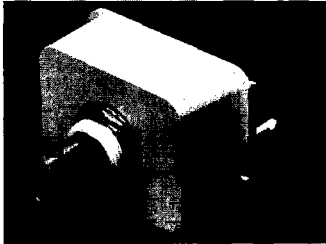


AMP Communications Outlet/Balun Inserts for 100 Ohm Cable

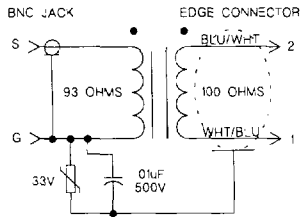
WORKSTATION OUTLETS

IBM 3270 Baluns

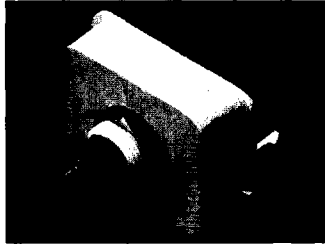
100 Ohm Shielded Cable



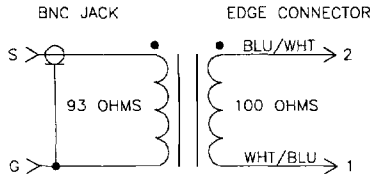
Part No. 555664-1 (Single)



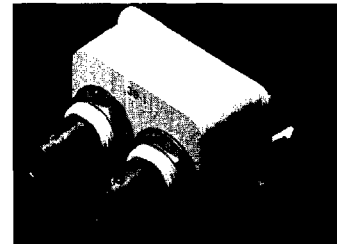
100 Ohm Unshielded Cable



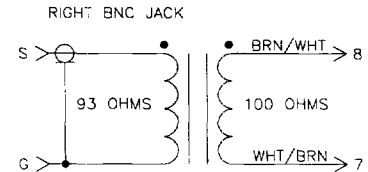
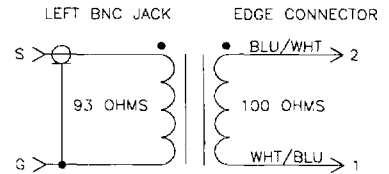
Part No. 555632-1 (Single)



100 Ohm Unshielded Cable



Part No. 557245-1 (Dual)

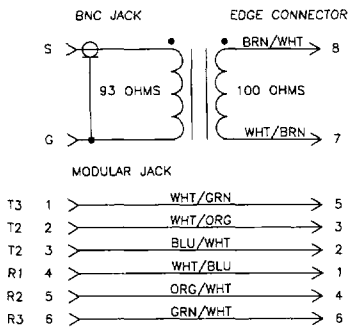


Combination IBM 3270 Baluns and Modular Jacks

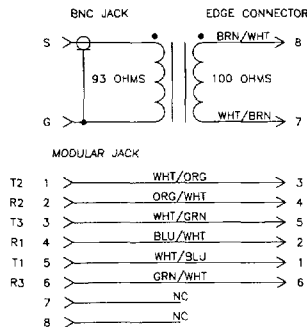
Flush Mount



Part No. 555637-1
IBM 3270 Balun and 6-Position (3-pair)
Category 3 Modular Jack



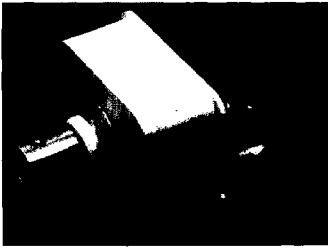
Part No. 555638-1
(non-keyed)
Part No. 555638-2
(keyed)
BNC Jack Balun IBM (Category "A")
compatible and 8-Position (3-pair)
Category 3



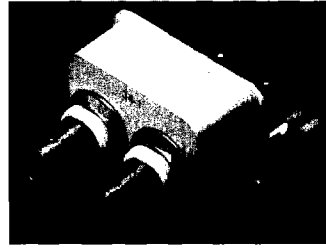
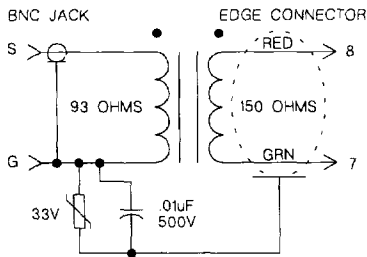
AMP Communications Outlet

AMP Communications Outlet/Balun Inserts for 150 Ohm Shielded Cable

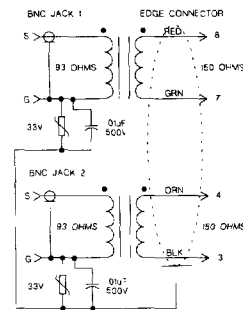
IBM 3270 Baluns



Part No. 555633-1 (Single)
Functionally equivalent
to IBM #6339082



Part No. 555634-1 (Dual)
Functionally equivalent
to IBM #6339083

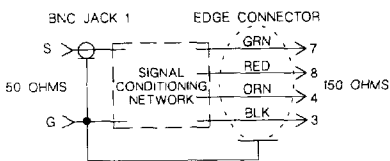


Thinnet (10BASE2) Balun

Thinnet (10BASE2) compatible
50 ohm Coax to 150 ohm shielded twisted
pair. Distance-350' max.
Not compatible with 10BASE-T.



Part No. 555665-1

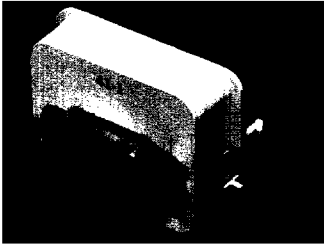


AMP Communications Outlet/Miscellaneous Inserts

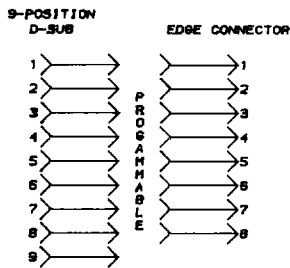
WORKSTATION OUTLETS

9-Position Sub D (DB9)

Field-programmable for EIA RS-232 applications.

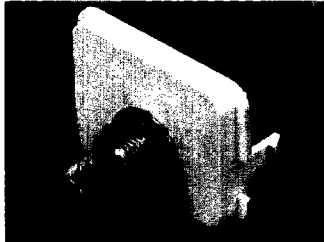


Part No. 555641-1



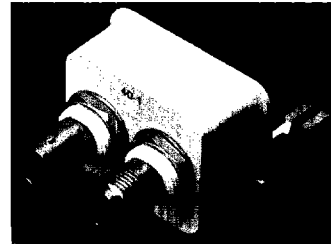
BNC Bulkhead Jack-to-Jack Splice

Part No. 555642-1
IEEE 802.3 compatible
Note: Card Edge Connector not used with this insert

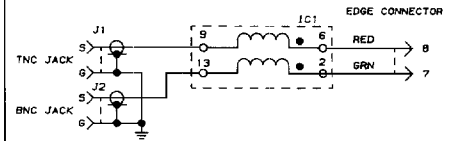


BNC/TNC WANG Balun

VS/OIS compatible
Dual 75 ohm Coax to 150 ohm shielded twisted pair
Distance-300' max., 50' min.

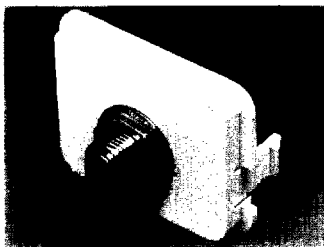


Part No. 555640-1



75 Ohm F Series Bulkhead Jack-to-Jack Splice

Part No. 555645-1
IEEE 802.7/CATV/Broadband compatible



Note: Card Edge Connector not used with this insert

Blank Insert Cover

Part No. 555644-1 Light Almond
Part No. 555644-3 Black
Part No. 555644-5 Gray
Part No. 555644-9 White



Flush Mount

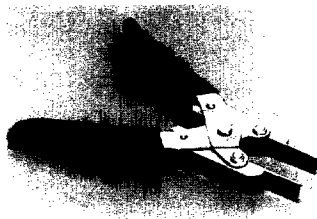
AMP Communications Outlet

AMP Communications Outlet/Miscellaneous Support Items

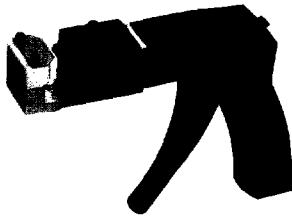
COMPRESSION TOOL**Part No. 1085 CT**

This tool provides improved termination of AMP-BARREL Edge Connectors compared to standard pliers. It may also be used with all AMP Four-Position Data Connector, Universal Data Connector and Keystone Modular Jack products.

This tool can be purchased from:
Rostra Tool Co.
30 East Industrial Rd.
Branford, CT 06405
Phone: 1-203-488-8665

**PISTOL GRIP TOOL
For AMP-BARREL Edge
Connectors****Tool with Head
Part No. 58568-1**

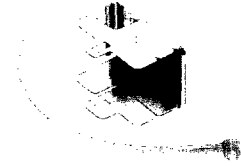
Head Only Part No. 122533-1
This Pistol Grip Tool terminates AMP-BARREL edge connectors one pair at a time. It shortens assembly time by trimming conductors to the proper length and helps to maintain proper pair twist for high performance cables. This tool requires the edge connector to be outfitted with a special strain relief cap. These strain relief caps are kitted with a special installation kit shown on page 33. Standard edge connectors may be modified by using the punchdown conversion kit shown on this page.

**EDGE CONNECTOR
ASSEMBLIES****Part No. 558570-1****110 Style Edge Connector****Part No. 556524-1
AMP-BARREL Edge
Connector**

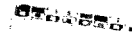
Edge connector contacts are plated with a minimum of 40 microinches of gold over 50 microinches of nickel. Connectors incorporate insulation displacement termination of 22-26 AWG solid or stranded wires (up to 8 per connector) and are capable of a minimum of 250 insertion/withdrawal cycles. 110-style edge connectors are not suitable for use with Type 1 cable.

GROUND SHIELD KIT**Part No. 555725-1**

Used when two ports of connector housing are to be shielded.

**PUNCHDOWN
CONVERSION KIT****Part No. 556805-1**

Used to convert AMP-BARREL Edge Connectors for use with Punchdown Tool (556706-1). Kit includes 50 strain reliefs.

**PUNCHDOWN TOOL****Part No. 556706-1**

May be used to insert wires into AMP-BARREL Edge Connector Stuffer Caps or in conjunction with Punchdown Conversion Kit (556805-1) to punch wires down onto AMP-BARREL Edge Connectors.

