

## ADAPTER: CIRCUITRY SCHEMATICS, IMPEDANCE MATCHING

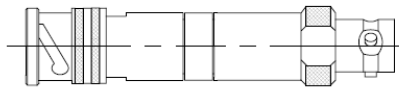
### Custom Adapters Ordering Format.

Adapters indexed with a designated number are *standard adapters*, refer to page 50 for identifications.

Adapters index with a "\*" are *custom adapters* and may be ordered using the example below. For adapters not referenced contact the factory.

#### ORDERING EXAMPLE:

Conn #1     **BJ20**   BNC JACK  
 Schematic   **E1**     CIRCUIT CODE  
 Conn # 2     **PL75**   TRB PLUG



Schematic  
 Conn #1   Conn #2  
**ADBJ20 - E1 - PL75**

### Adapter Circuitry Schematics

Concentric Twinax/Triax to Concentric Twinax/Triax	2-Pin Twinax to 2-Pin Twinax	Coax 2-Pin Twinax	Coax to Concentric Twinax/Triax	2-Pin Twinax to Concentric Twinax/Triax	Coax to Coax
A1	C1	D1	E1	G1	K1
A2	C2	D2	E2	G2	K2
A3	C3	D3	E3	G3	K3
A4	C4	D4	E4	G4	
A5	C5	D5	E5		
A6	C6	D6			
A7	C7	D7			
A8		D8			

● BLUE CENTER COND

IMPEDANCE MATCHING SCHEMATIC

### Impedance Matching Adapter

Trompeter has developed a line of *Impedance Matching Adapters* that provides the designer a quick, elegant and affordable solution for connecting mismatched data transfer devices.

Why impedance matching? Impedance Matching exists in order to improve the performance of electronic circuits. A transmission line is properly terminated when the load impedance is equal to the source impedance. This prevents reflections and transfers the maximum signal to the output. Data transfer rates are increasing and frequency is an important component in determining the impedance of a transmission medium. When devices are not properly matched, the higher frequencies create greater signal attenuation.

Trompeter incorporates embedded transformer technology into our rugged in-line adapter package. The transformers are step-up/down and DC isolated so you do not have to contend with your signal floating on a DC level. These *Impedance Matching Adapters* are available in BNC, TNC, TRB and TRT, male and female interfaces. The input/output configurations are interchangeable, i.e. TRB to BNC, with bulkhead mounting options.

For more information on how this product can benefit your design, please refer to the technical paper: '*Signal Transmission in High Frequency/High Density Applications*' (see pages 81-82 in this catalog). For specific information and part numbers please contact the factory.







# ADAPTER TABLE: COAX/TWINAX/TRIAX & IDENTIFICATIONS

## Coax/Twinax/Triax Adapters Continued...

		TRB										TRT				TWBNC			TWTNC				
		BJ77	BJ77FL	BJ77TL	BJ79	CJ70	CJ70FL	CJ70TL	PL74	PL75	PL75FL	PL374	BJ377	BJ379	CJ370	PL375	BJ30	BJ39	CJ30	PL30	BJ330	BJ339	CJ330
		F	F	F	F	F	F	M	M	M	F	F	F	F	M	F	F	F	M	F	F	F	M
TRS	BJ154	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	BJ154FL	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	BJ157	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	BJ157FL	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	BJ159	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	BJ159FL	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	CJ150	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	CJ150FL	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PL150	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PL153	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PL155	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PL155FL	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
TTM	BJ3154	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ3159	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	CJ3150	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	PL3155	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
TRB	BJ74	F	B	I	18	.	.	.	.	18	18	.	.	.	.	.	.	.	.	.	.	.	
	BJ74TL	F	B	I	.	.	.	.	.	.	39	.	.	.	.	.	.	.	.	.	.	.	
	BJ74FL	F	B	I	.	.	40	.	.	.	40	.	.	.	.	.	.	.	.	.	.	.	
	BJ77	F	B	I	3	.	.	.	.	.	34	3	.	.	.	.	.	.	.	.	.	.	
	BJ77TL	F	B	I	.	.	.	.	.	.	29	.	.	.	.	.	.	.	.	.	.	.	
	BJ77FL	F	B	I	.	.	28	.	.	.	28	.	.	.	.	.	.	.	.	.	.	.	
	BJ79	F	B	I	34	.	.	34	34	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ79TL	F	B	I	.	.	35	.	.	.	35	.	.	.	.	.	.	.	.	.	.	.	
	BJ79FL	F	B	I	.	.	36	.	.	.	36	.	.	.	.	.	.	.	.	.	.	.	
	BJ79TLRG	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	CJ70	F	B	I	3	.	.	34	3	.	.	.	.	.	.	.	.	.	.	.	.	.	
	CJ70TL	F	B	I	.	.	29	.	.	.	29	.	.	.	.	.	.	.	.	.	.	.	
	CJ70FL	F	B	I	.	.	28	.	.	.	28	.	.	.	.	.	.	.	.	.	.	.	
	PL71	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	PL73	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	PL74	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	PL75	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PL75FL	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
TRT	PL375	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ374	F	B	I	.	.	.	.	.	.	25	25	25	25	.	.	.	.	.	.	.	.	
	BJ377	F	B	I	.	.	.	.	.	.	.	25	12	26	12	.	.	.	.	.	.	.	
	BJ379	F	B	I	.	.	.	.	.	.	.	25	26	26	26	.	.	.	.	.	.	.	
	BJ379RG	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
CJ370	F	B	I	.	.	.	.	.	.	.	25	12	26	12	.	.	.	.	.	.	.		
TWBNC	BJ30	F	B	I	.	.	.	.	.	.	.	.	.	.	.	15	.	.	.	.	.	.	
	BJ39	F	B	I	.	.	.	.	.	.	.	.	.	.	.	15	15	15	.	.	.	.	
	CJ30	F	B	I	.	.	.	.	.	.	.	.	.	.	.	15	.	.	.	.	.	.	
	PL30	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
TWTNC	BJ330	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	.	
	BJ339	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	37	
	PL330	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ89	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ89F	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ893	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	BJ893F	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	CJ80	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	CJ380	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	TRC/TRN	CJ803	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PL80		M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PL380		M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PL803		M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
BJ389		F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
BJ389F		F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PL150		M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
PATCH	J72D	F	B	I	67	.	.	.	.	67	.	.	.	.	.	.	.	.	.	.	.	.	
	J150	F	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	PL150	M	B	I	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

Adapters indexed with a designated number are standard adapters, use the table below to determine the part number. Adapters indexed with "\*" are custom adapters, see page 47.

Trompeter also carries Impedance Matching Adapters, see page 47.

### STANDARD ADAPTERS IDENTIFICATION NUMBERS:

ID#	Part Number	ID#	Part Number
1	(U)AD28	41	BJ883
2	(U)AD48	42	BJ58FL
3	AD78 (Note 2)	43	BJ138
4	AD1	44	AD192
5	(U)AD95	45	AD1W
6	(U)AD195	46	ADH1
7	AD122	47	ADH1W
8	AD130	48	ADM1 (Note 8)
9	AD131	49	ADM2 (Note 8)
10	AD133	50	ADMW12 (Note 9)
11	(U)AD142	51	J11 (Note 9)
12	AD378	52	J11B (Note 9)
13	(U)AD2848	53	J152 (Note 11)
14	(U)BJ28	54	J152FL (Note 12)
15	BJ38 (Note 3)	55	J3152 (Note 13)
16	(U)BJ48	56	J3
17	BJ58	57	J3W
18	BJ73 (Note 2)	58	(Note 10)
19	BJ88	59	AD158FL
20	(U)BJ98	60	J3F
22	BJ158 (Note 4)	61	J3WF
23	BJ158FL (Note 5)	62	J5
24	BJ358	63	J5W
25	BJ373	64	(U)J9
26	BJ378	65	(U)J9W
27	(Note 1)	66	J8
28	AD78FL	67	J72
29	AD78TL	68	BJ3153
30	BJ24		
31	BJ3158 (Note 6)		
32	AD158		
33	AD3158		
34	BJ78		
35	BJ78TL		
36	BJ78FL		
37	BJ338		
38	BJ388 (Note 7)		
39	BJ73TL		
40	BJ73FL		

(U) = 75 ohm version available (Note) = See below

### STANDARD ADAPTER NOTES:

Note:	1	Bulkhead Mounted BNC Side	(U)BJ4828
		Bulkhead Mounted TNC Side	(U)BJ2848
	2	Polarization Table (Call Factory)	
	3	Insulated Version	BJ33
	4	Insulated Version	BJ153
	5	Insulated Version	BJ153FL
	7	Insulated Version	BJ383
	8	50 Ohm Version Only	
	9	75 Ohm Version Only	
		J308 50 Ohm TCM Jack Threaded	
	10	Panel Mount J8D	
		J311 75 Ohm TCM Jack to J8D	
	11	Threaded Panel Mount	J152
12	Threaded Panel Mount	J152FLFT	
13	Threaded Panel Mount	J3152FT	

