

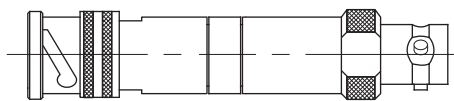
ADAPTER: CIRCUITRY SCHEMATICS, IMPEDANCE MATCHING

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:

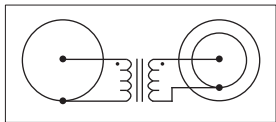
Conn #1 **BJ20** BNC JACK
Schematic **E1** CIRCUIT CODE
Conn # 2 **PL75** TRB PLUG



Schematic
Conn #1 Conn #2
ADB J20 - 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 			



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 129-130 in this catalog). For specific information and part numbers please contact the factory.