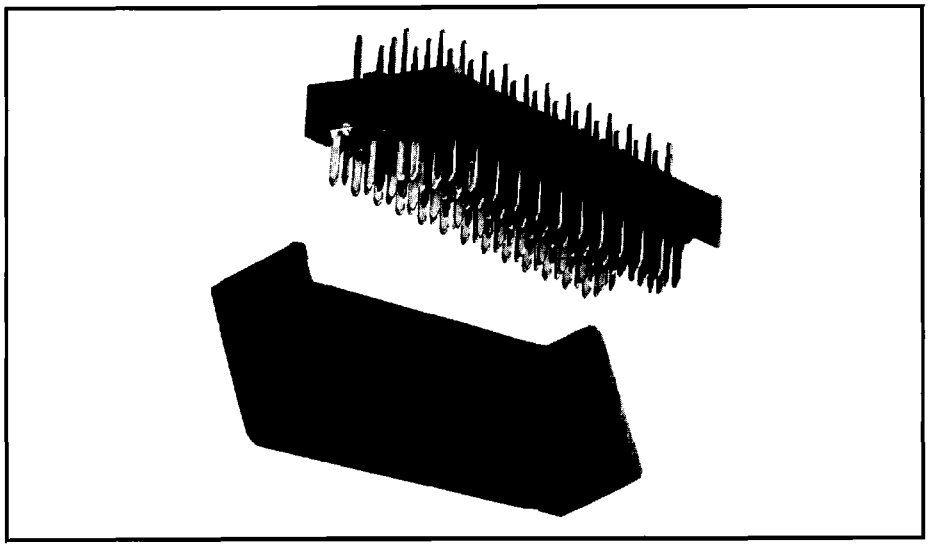
HIGH DENSITY .025" IDC TRANSITION CONNECTORS



description

Amphenol high density 25 MIL IDC transition connectors, featuring 0.025" contact spacing, are designed for use in condensed FRC wiring applications on printed circuit boards in computers and other electronic equipment.

These highly miniaturized connectors offer opportunities for significant reductions in size, and/or increased printed circuit densities.

25 MIL transition connectors feature an innovative, three-blade contact arrangement allowing mass termination of 0.025" conductor center flat ribbon cable without costly pre-processing procedures. Each blade has a tapered tip and chamfered edges to help prevent wire and blade damage during displacement.

This feature also helps assure precise contact alignment and positioning in the holes in the insulation plates. These holes easily accommodate insertion of test probes for simplified conductivity testing. All 845 series 25 MIL connectors feature Gold flash over Nickel plated, Copper alloy contacts for excellent conductivity.

compatibility

The following Amphenol cable series are appropriate for use with these connectors:

Cable series 133-3014, 151-3033, 191-3003, 191-3404

termination tooling

See page 58

benefits

- Gold over nickel plating
- High contact density saves board space
- Unique three-blade IDC contact design helps prevent cable conductor degradation during displacement
- Separation cover separates cable from contacts prior to termination speeding up assembly

characteristics

Physical

Contact material: Copper alloy
Contact plating: Gold flash over nickel
Contact spacing: 0.05" grid on 0.025" centers
Housing and cover material: 94 V-O glass reinforced PBT, blue
Operating temperature: -20°C to +105°C (-4°F to +221°F)
Mating cable: 30 AWG solid conductor or 32 AWG stranded flat ribbon cable

Electrical

Insulation resistance: 5,000 megaohms minimum at 500V DC
Breakdown voltage: 750V DC for one minute
Voltage rating: 185V
Current rating: 0.5 amps

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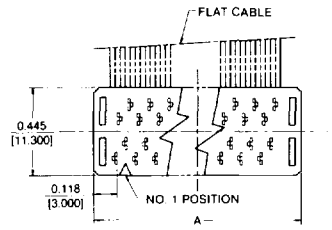
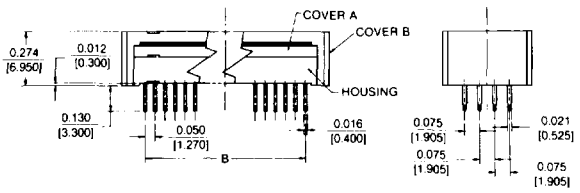
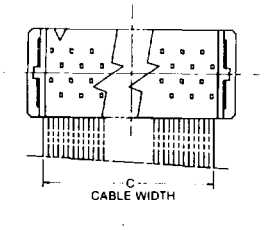
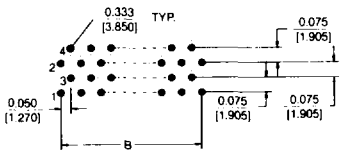
dimensions and ordering information







recommended board layout



Part Number	No. of Contacts		Dimensions In Inches (mm)		
		A	B = N x .050 (1.27)		C
			N	B	
845-C010T-BGA55	10	.436 (11.08)	N = 4	.200 (5.08)	.250 (6.35)
845-C016T-BGA55	16	.586 (14.89)	N = 7	.350 (8.89)	.400 (10.16)
845-C020T-BGA55	20	.686 (17.43)	N = 9	.450 (11.43)	.500 (12.70)
845-C026T-BGA55	26	.836 (21.24)	N = 12	.600 (15.24)	.650 (16.51)
845-C034T-BGA55	34	1.036 (26.32)	N = 16	.800 (20.32)	.850 (21.59)
845-C040T-BGA55	40	1.186 (30.13)	N = 19	.950 (24.13)	1.000 (25.40)
845-C050T-BGA55	50	1.436 (36.48)	N = 24	1.200 (30.48)	1.250 (31.75)
845-C060T-BGA55	60	1.686 (42.83)	N = 29	1.450 (36.83)	1.500 (38.10)
845-C064T-BGA55	64	1.786 (45.37)	N = 31	1.550 (39.37)	1.600 (40.64)
845-C068T-BGA55	68	1.886 (47.90)	N = 33	1.650 (41.91)	1.700 (43.18)
845-C080T-BGA55	80	2.186 (55.52)	N = 39	1.950 (49.53)	2.000 (50.80)
845-C100T-BGA55	100	2.686 (68.22)	N = 49	2.450 (62.23)	2.500 (63.50)

All connectors are flat ribbon cable IDC for use with solid 30 AWG cable of .025" (0.64) pitch or stranded 32 AWG cable of .025" (0.64 m) pitch.
All contacts are .000012" gold plated on the mating area, gold flash plated on the termination area with nickel underplate on the entire contact.