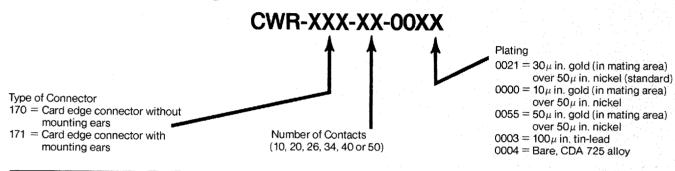
Specifications and Ordering Information

Specifications , \$\mathbf{A}\mathbf{I}\$

- Contacts: phosphor bronze, standard; bare CDA 725, optional
- Contact Plating: 30μ in. gold (in mating area) over 50μ in. nickel, standard; 10μ in. gold (in mating area) over 50μ in. nickel, optional; 50μ in. gold (in mating area) over 50μ in. nickel, optional; 100μ in. tin-lead, optional
- Insulator Material: UL 94V-0 flame retardant thermoplastic

- Color: blue
- Operating Temperature: −55°C to +125°C
- Current Rating: 1 A (maximum) per contact
- Dielectric Withstand Voltage: greater than 500 Vdc at sea level
- Insulation Resistance: greater than 5 x 10° ohms.
- Cover pull-off force 8 oz/contact min. (force along contacts' primary axes)

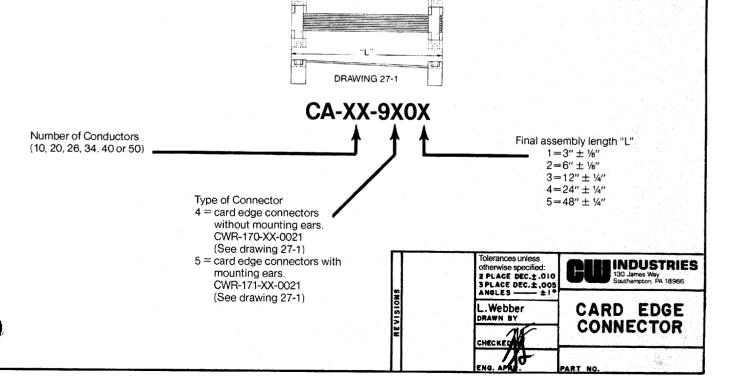
How to Order Card Edge Connectors



How to Order Card Edge Cable Assemblies

Cable assemblies with two card edge connectors on a prescribed length of color-coded cable are available with the connectors oriented per drawing 27-1. (#1 contacts oriented to brown conductor.)

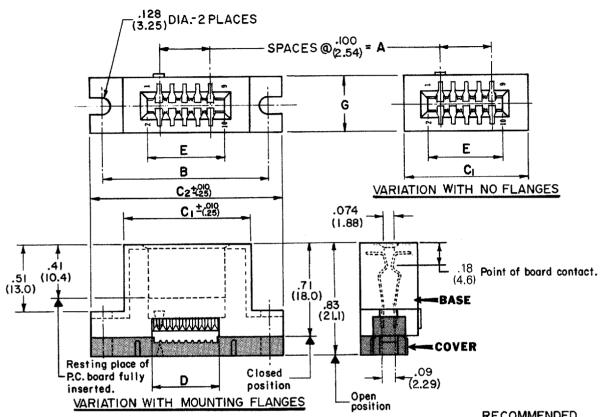
For other lengths, orientations, numbers or combinations of connectors, contact your local value - added distributor.



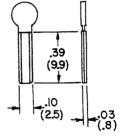
Card Edge Connectors

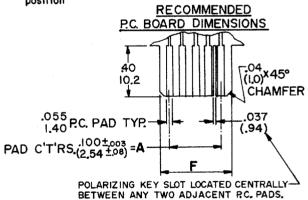
Engineering Dimensions

Dimensions



POLARIZING KEY CWN-KEY 2 .39





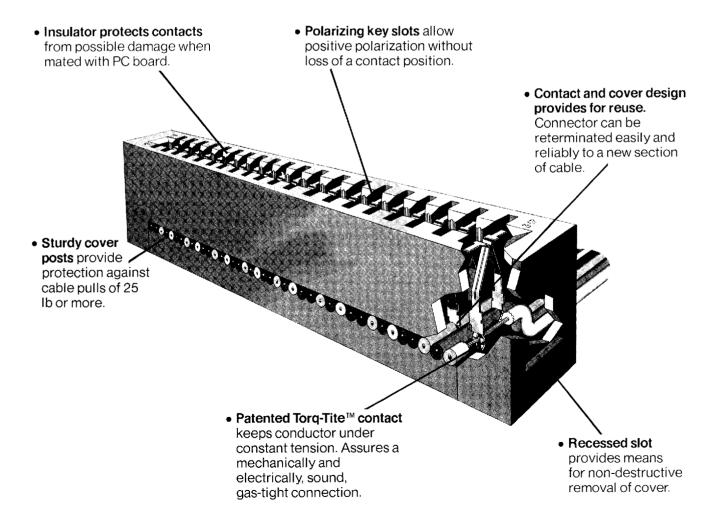
CONNECTOR DIMENSIONS										
No. Conts.	A	В	C1	C2	D	E	F	G		
10	.400	1.300	.976	1.500	520	.604	.596	.43		
	(10.16)	(33.02)	(24.79)	(38.10)	(13.21)	(15.34)	(15.14)	(10.9)		
20	.900	1.800	1.476	2.000	1.020	1.104	1.096	.43		
	(22.86)	(45.72)	(37.49)	(50.80)	(25.91)	(28.04)	(27.84)	(10.9)		
26	1.200	2.100	1.776	2.300	1.320	1.404	1,396	.43		
	(30.48)	(53.34)	(45.11)	(58.42)	(33.53)	(35.66)	(35,46)	(10.9)		
34	1.600	2.500	2.176	2.700	1.720	1.804	1.796	.43		
	(40.64)	(63.50)	(55.27)	(68.58)	(43.69)	(45.82)	(45.62)	(10.9)		
40	1.900	2.800	2.476	3.000	2.020	2.104	2.096	.43		
	(48.26)	(71.12)	(62.89)	(76.20)	(51.31)	(53.44)	(53.24)	(10.9)		
50	2.400	3.400	2.976	3.900	2.520	2.604	2.596	.44		
	(60.96)	(86.36)	(75.59)	(99.06)	(64.01)	(66.14)	(65.94)	(11.2)		

No. of Conductors	Pages	Standards and Specifications		Flat Cable Guide	Page	
10, 14, 16, 20. 26, 34, 40, 50, 60	6, 7 8, 9	 Contacts: phosphor bronze, standard, bare CDA 725, optional Contact Plating: 30 μ in. gold over 50 μ in. nickel, standard* 10 μ in. gold over 50 μ in. nickel, optional* 50 μ in. gold over 		Gray 28 AWG (7/36) .050 in. conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60 Extruded, mirror image design UL Style 2651	38	
10, 14, 16, 20, 26, 34, 40, 50, 60	10, 11 12, 13 14, 15 16, 17	 50 μ in. nickel, optional 100 μ in. tin-lead optional* 200 μ in. tin-lead optional* Housing Material UL 94V-0 flame-retardant thermoplastic Color: blue Operating Temperature: -55° to + 125°C 		Color-coded 28 AWG (7/36) .050 in. conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60 • Bonded or Laminated	39	
9, 15, 25, 37 with pin or socket contacts	18, 19 20, 21 22, 23 24, 25	Ourrent Rating: 1 amp (maximum) per contact Dielectric Withstand Voltage: greater than 500 Vdc at sea level Insulation Resistance:		Styles available Thinner Bonded Cable—only .035 in. thick Jacketed-Shielded 28 AWG (7/36) .050 in.	40	
10, 20, 26, 34, 40, 50	26, 27 28, 29	greater than 5 x 10° ohms • Standard Contact Resistance 15 milliohms max. * Tin-lead plating not available on header connectors. 10 μ in. gold over 50μ in. nickel is standard contact plating on DIPconnectors. 100 μ in. tin-lead is standard contact plating on PCB connectors.		conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60 • Aluminum/mylar shield (aluminum outward) provides for effective shielding and grounding • UL listed for external connection of Class 2 and 3 circuits		
14, 16 24, 4C	30, 31 32, 33		New From CW! Please see the inside back cover for information on our Nano and American Din connector systems. Send for the latest designers' guide for Microminiature and high density connectors.			
10, 20, 26, 34, 40, 50 60	34, 35 36, 37					

The card edge connector provides a fast means for connecting/disconnecting single, double-sided or multi-layer printed circuit boards.

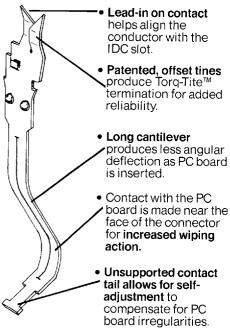
Contact force consistency is obtained through the use of a long cantilevered contact having a minimum deflection angle and an extended selfcleaning, wiping action. These contacts ensure positive connection to the board, even when pad surfaces are irregular.

Good contact pressure is maintained with minimum wear on PC board pads, even in hostile environments, and after numerous insertions and withdrawals or shock and vibration.



ird Edge Connectors

Contact

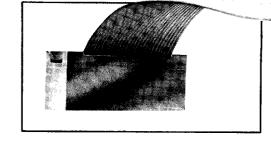


Card Edge Connector Features

- 10, 20, 26, 34, 40, and 50 contact versions.
- Compatible with various PC board thicknesses, from .032 in. to .070 in, thick,
- Standard gold-plated phosphor bronze contacts; tin-lead plated, or bare CDA 725 alloy contacts optional.
- Can be daisy-chained or applied in cable end terminations.
- Factory pre-assembled cover minimizes assembly time.
- Available with or without mounting flanges.
- Dependable long cantilever contact design maintains consistent pressure even after repeated matings with PC boards. Insures a long insertion/withdrawal cycle life and a good self-cleaning wipe on each PC board pad.
- Self-adjusting contact compensates for variations in PC board thickness.
- Closed entry protection prevents possible damage caused by PC board irregularities.

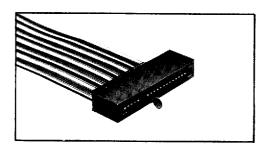
Strain Relief

Strain relief is an integral part of CW Card Edge connector. A strain relief lip is molded into the connector body. Upon installation of the cover, this lip causes a strain relief bend in the cable that prevents forces applied to the cable from being transferred to the IDC termination.



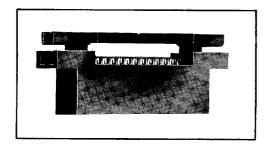
Polarization

Positive polarization is available on all CW card edge connectors. A polarizing key, inserted into a V-slot located between any two contacts, fits into a corresponding .037 in. slot cut into the PC board. This technique not only provides positive polarization without loss of a contact position, but also helps ensure precise alignment of the contacts to the PC board's pads.



Assembly

Assembling these connectors is both fast and easy using only a simple bench press. The connector body is designed to orient the cable to the contact tines, and the factory preassembled cover permits termination of all conductors in one step—simply apply opposing parallel forces on the connector cover and base.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CWR-170-26-0021