




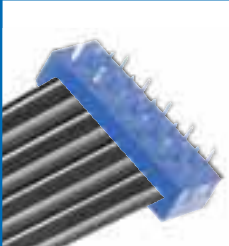
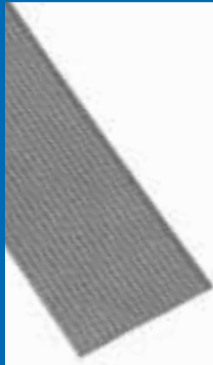




# CW Insulation Displacement Connectors:

	Description	Features	
	<p><b>Socket</b> Normally used to interconnect PC boards or points on a backplane through headers or pins on .100 in. x .100 in. spacing. Advanced design includes patented Torq-Tite™ contact for positive gas-tight cable termination. Nose end of contact provides superior wiping action and redundant electrical contact. Qualified per U.S. Defense Department to Mil-DTL-83503/7 and interchangeable and mateable with other connectors so qualified.</p>	<ul style="list-style-type: none"> <li>• Mil-DTL-83503/7 approved</li> <li>• Preassembled cover provides for precise, rapid assembly</li> <li>• Ridges on cover help align cable</li> <li>• Reusable contact and cover design</li> <li>• Choice of polarizing method and optional strain relief strap</li> </ul>	
	<p><b>Headers</b> Fully shrouded, 3 wall and low profile box headers are available to provide a reliable mating interface for standard sockets having .100 in. x .100 in. contact spacing. Headers have pins on their mating side and offer the designer a choice of either wire-wrap or solder pins in various lengths on the opposing end in straight or right angle styles. Qualified per U.S. Defense Department to Mil-DTL-83503/20, 21, 24 and 25.</p>	<ul style="list-style-type: none"> <li>• Mil-DTL-83503/20, 21, 24 and 25 approved</li> <li>• Mateable with sockets from other manufacturers, with or without strain relief</li> <li>• Patented polarization design consistent with Mil-DTL-83503 standards—integral ribs eliminate need for gluing polarizing keys to the header base</li> <li>• Polarization ribs can be removed for use with non-polarized sockets</li> <li>• Easy ejection, and secure locking available with long or short latches</li> </ul>	
	<p><b>D-Subminiature</b> Ideal for input/output applications and interconnecting electronic equipment. Connectors are UL recognized and CSA listed and are designed to meet the applicable standards of Mil-DTL-24308. They are interchangeable and mateable with other connectors that meet these standards. Available in all-plastic or metal-face versions with optional EMI/RFI shield.</p>	<ul style="list-style-type: none"> <li>• Choice of 3-way strain relief</li> <li>• Accepts standard .050 in. conductor spacing cable without special cable preparation</li> <li>• Preassembled cover provides for precise, rapid assembly</li> <li>• Accepts jacketed and shielded cable without the need for a backshell</li> <li>• Patented contact design provides for precise mating with our D-Subminiature connectors</li> <li>• Metal Face and shield provide EMI/RFI shielding</li> </ul>	
	<p><b>Card Edge</b> Provides a fast means for connecting/disconnecting single, double-sided or multi-layer PC boards. Extra long cantilevered contact provides an extended self-cleaning, wiping action, and ensures positive connection to the board. Good contact pressure is maintained with minimal wear on PC board pads.</p>	<ul style="list-style-type: none"> <li>• Factory pre-assembled cover provides for fast assembly</li> <li>• Self-adjusting contact force adjusts for variations in PC board thickness</li> <li>• Long cantilever contact provides consistent insertion/withdrawal forces</li> <li>• Full polarization capability</li> <li>• Reusable contact and cover design</li> </ul>	
	<p><b>DIP</b> Used for rapid, permanent connection of ribbon cable to a PC board or when connect/disconnect capabilities are required. Mates with a standard DIP socket. Cover is factory preassembled to connector base to simplify handling and assembly of cable. Qualified per U.S. Defense Department to Mil-DTL-83503/6.</p>	<ul style="list-style-type: none"> <li>• Mil-DTL-83503/6 approved</li> <li>• Sturdy, yet flexible terminal posts</li> <li>• No “bare shoulders” on the contact at the PC board interface</li> <li>• Preassembled cover minimizes assembly time</li> <li>• Optional strain relief strap is available</li> </ul>	
	<p><b>PCB</b> Used when a permanent connection of flat cable to the PC board is required. Cable is terminated to the PCB plug to make a reliable gas-tight connection through use of Torq-Tite™ contacts. The connector's pins are then soldered to the board. Qualified per U.S. Defense Department to Mil-DTL-83503/23.</p>	<ul style="list-style-type: none"> <li>• Mil-DTL-83503/23 approved</li> <li>• Sturdy, yet flexible solder posts able to withstand bending and straightening</li> <li>• No “bare shoulders” on the contact at the PC board interface</li> <li>• Integral strain-relief option available</li> <li>• Cover lip available for cable end termination</li> </ul>	

# Selection Guide to **CW** Flat Cable

No. of Conductors	Pages	Standards and Specifications
10, 14, 16, 20, 26, 34, 40, 50, 60	6, 7 8, 9	<ul style="list-style-type: none"> <li>• Contacts: phosphor bronze, standard.</li> <li>• 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 50 μ in. nickel, optional 100 μ in. tin-lead optional* 200 μ in. tin-lead optional*</li> </ul>
10, 14, 16, 20, 26, 34, 40, 50, 60	10, 11 12, 13 14, 15 16, 17	<ul style="list-style-type: none"> <li>• Housing Material UL 94V-0 flame-retardant thermoplastic</li> <li>• Color: blue</li> </ul>
9, 15, 25, 37 with pin or socket contacts	18, 19 20, 21 22, 23 24, 25	<ul style="list-style-type: none"> <li>• Operating Temperature: -55° to +125°C</li> <li>• Current Rating: 1 amp (maximum) per contact</li> <li>• Dielectric Withstand Voltage: greater than 500 Vdc at sea level</li> </ul>
10, 20, 26, 34, 40, 50	26, 27 28, 29	<ul style="list-style-type: none"> <li>• Insulation Resistance: greater than 5x10<sup>9</sup> ohms</li> <li>• Standard Contact Resistance 15 milliohms max.</li> </ul>
14, 16, 24, 40	30, 31 32, 33	<p>* Tin-lead plating not available on header connectors.</p> <p>10 μ in. gold over 50 μ in. nickel is standard contact plating on DIP connectors.</p> <p>100 μ in. tin-lead is standard contact plating on PCB connectors.</p>
10, 20, 26, 34, 40, 50, 60	34, 35 36, 37	

Flat Cable Guide	Page
 <p><b>Gray</b> 28 AWG (7/36) .050 in. conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60</p> <ul style="list-style-type: none"> <li>• Extruded, mirror image design</li> <li>• UL Style 2651</li> </ul>	38
 <p><b>Color-coded</b> 28 AWG (7/36) .050 in. conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60</p> <ul style="list-style-type: none"> <li>• Bonded</li> <li>• Thinner Bonded Cable—only .035 in. thick</li> </ul>	39
 <p><b>Jacketed-Shielded</b> 28 AWG (7/36) .050 in. conductor spacing No. Conductors: 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60</p> <ul style="list-style-type: none"> <li>• Aluminum/mylar shield (aluminum outward) provides for effective shielding and grounding</li> <li>• UL listed for external connection of Class 2 and 3 circuits</li> </ul>	40