

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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D-Subminiature connectors with metal face and EMI/RFI shield

The Problem:

Stray Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) emitted from unshielded cables, connectors, and assemblies can affect the performance of electronic devices within the range of these emissions. The Federal Communications Commission requires EMI/RFI shielding to standards defined in F.C.C. Docket 20780, Part 15 on all newly manufactured equipment. Connectors, cable, and assemblies, if an integral part of this equipment, are within the scope of the F.C.C. decree and must be appropriately shielded.

The CW Solution:

connectors.

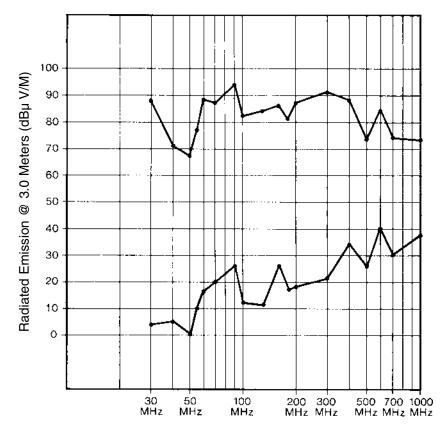
CW makes available a choice of two solutions. Select the system that best solves your EMI/RFI emission problem.

METAL-FACED D-SUBMINIATURE-A metal face forms the front of your D-Subminiature connector and shields high-frequency radiation that eminates principally from the point of external interconnection. These connectors also mate with traditional metal-faced D

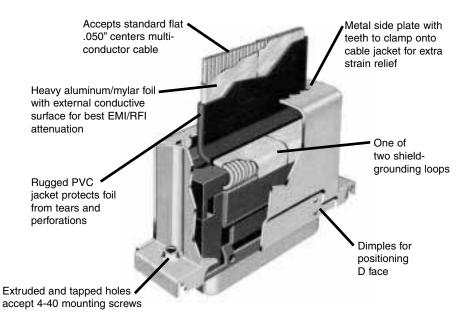
EMI/RFI SHIELD-A bright tin-plated metal shield can be added to the METAL-FACED connector to form a complete metal enclosure. Laboratory tests show that our Subminiature D connector enclosed in our assembled shield can reduce strays by up to 80dB. Performance comparison and test results are indicated graphically in the chart at right. When terminated to jacketed-and-shielded flat cable, properly stripped to expose an external conductive surface, the shielding interfaces redundantly with CW's conductive shield placing the entire assembly at "ground". CW's shield can be used on either cable end terminations or in "daisy chain" terminations along the cable. METAL SHIELDS are available to cover 9, 15, 25, and 37 pin or socket Subminiature D connectors. CW's METAL SHIELDS are designed for easy and rapid assembly to our METAL-FACED Subminiature D-connectors. No supplemental fasteners or assembly tools are required.

Test Results

Radiated Emission Comparison Unshielded vs. CW Shielded D-Subminiatures Assemblies

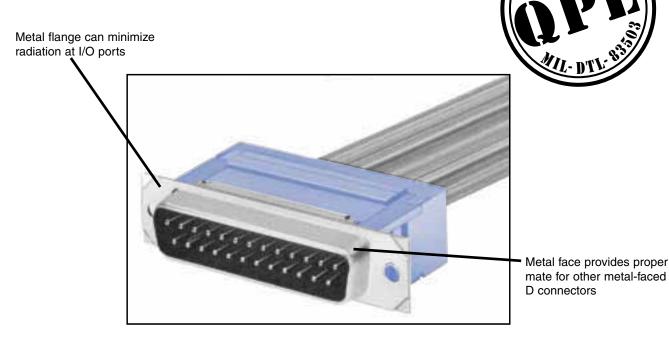


CW metal-faced D-Subminiature connector with assembled EMI/RFI shield



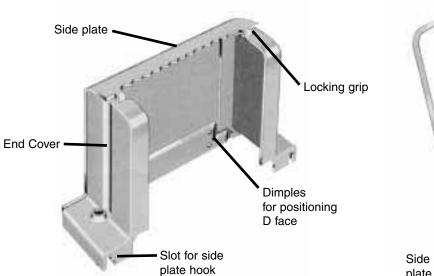
D-Subminiature connector with metal face

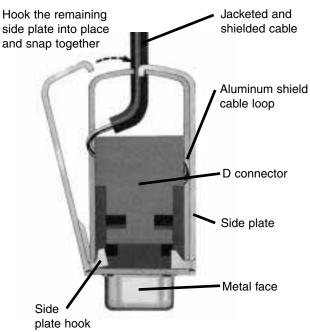
CW metal faced D-Subminiature connectors are ideal for input/output applications and interconnecting electronic equipment. These connectors are designed to the applicable standards of Mil-DTL-24308 and are interchangeable and mateable with other connectors so designed.



Assemble an EMI/RFI shield to our D-Subminiature connector in a snap

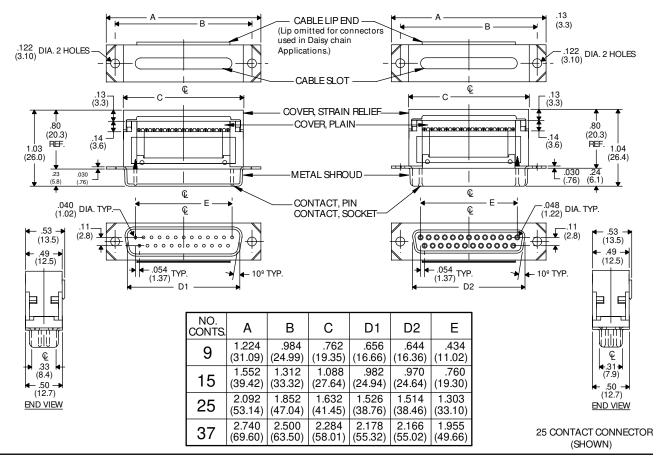
After terminating the connector to C-03-021 or C-03-031 style jacketed and shielded flat cable, slide the D-Subminiature connector with metal face into the preassembled shield.



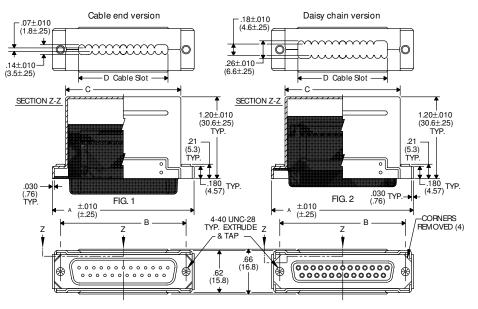


D-Subminiature connectors with metal face

(Bright tin-plated C.R.S.)



EMI/RFI Shielded (Bright tin-plated C.R.S.)



NO. CONTS.	Α	В	С	D
9	1.284	.984	.830	.550
	(32.61)	(24.99)	(21.08)	(13.97)
15	1.612	1.312	1.158	.856
	(40.94)	(33.32)	(29.41)	(21.74)
25	2.152	1.852	1.698	1.366
	(54.66)	(47.04)	(43.13)	(34.70)
37	2.800	2.500	2.346	1.978
	(71.12)	(63.50)	(59.59)	(50.24)

Note: EMI/RFI shield will accept either pin or socket connector in standard (Fig. 1) or recessed (Fig. 2) mounting configurations, as shown.

Hardware Mounting Kits for Metal Faced D-Connectors

To order, specify CWN-HK-XX.

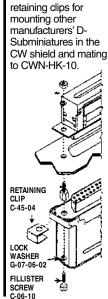


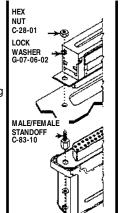




CWN-HK-08 Two 4-40 standoffs with lock washers and hex nuts for front panel mounting of D-Subminiature connector with metal face.

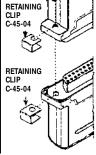
CWN-HK-09 Two 4-40 screws. lock washers and retaining clips for mounting other manufacturers' D-Subminiatures in the to CWN-HK-10. RETAINING

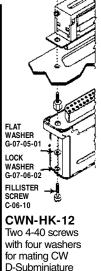




CWN-HK-10 Two 4-40 standoffs with lock washers and nuts for rear panel mounting of D-Subminiature connector with metal face.







connectors with the CW EMI/RFI shield to front or rear panel mounted connector. *Flat washer not used when mated with front panel

mounted connector.

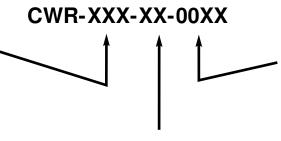
How to Order D-Subminiature Connectors with Metal Face

Type of Connector 282=D-Subminiature with metal face for cable end terminations, pin contact (Standard)

283=D-Subminiature with metal face for cable end terminations, socket contact (Standard)

280=D-Subminiature connector with metal face for daisy chain applications, pin contact

281=D-Subminiature connector with metal face for daisy chain applications, socket contact



Number of Contacts (9, 15, 25 or 37)

Plating

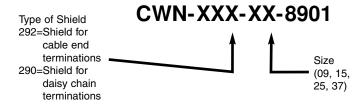
0021=30µ in. gold (in mating area) over 50µ in. nickel (standard)

 $0000=10\mu$ in. gold (in mating area) over 50µ in. nickel

0022=50µ in. gold (in mating area) over 50µ in. nickel Mil-DTL-24308 approved.

0003=100μ in. tin-lead

How to Order EMI/RFI Shield



Note: For information on 100% tested, ready-touse cable assemblies, contact the factory or your local value-added distributor.