cannon





MIL-DTL-83513 Series Microminiature Connectors

Offering Proven Reliability & Performance, When it Matters Most

Cannon MIL-DTL-83513 Series Microminiature interconnects and cable assemblies are ideally suited for applications requiring extremely small, lightweight and ruggedized solutions with higher density contact configurations. They are available in eight shell sizes that accommodate from 9 to 100 contacts. These robust, space-saving connectors meet ongoing industry demand for environmental, high performance and moisture-sealed Micros that perform reliably in the harshest environments.

- Multiple shell options in aluminum
- Wired pigtail, solder cup, right angle, condensed right angle and straight PC tail options
- High performance Cannon Twist Pin Contacts
- Turnkey & custom cabling solutions

The CANNON Difference:

- Highly engineered
- Exceptional versatility & performance
- Proven reliability
- A commitment to delivering the highest quality interconnect solutions for standard and custom design requirements

Key Features:

- Designed to MIL-DTL-83513 specifications
- .050" center-to-center contact spacing
- 500 mating cycles
- Push-pull hardware option requires no torque, reducing misalignments and rocking





Markets & Applications



MISSILES & ORDNANCE



AEROSPACE LAUNCH VEHICLES



OIL & GAS EXPLORATION



INDUSTRIAL AUTOMATION

Micro-D Metal Shell -.050" Contact Spacing | MIL-DTL-83513



How to Order | Part Number Configurator Slash Sheets 1-5, 10-27



| | Series Prefix | Slash Sheet | Insert Arrangement | Wire Type | Shell Finish | Hardware |
|--------------|--|----------------------|-------------------------------------|----------------------|---------------------------|---------------------------------|
| Series | Wired/Solder | | РСВ | | | |
| | 01 - Plug, connector, solderpot (metal shell) | | 10 - Connector, plug, conde | ensed board right an | gle (CBR), sizes 9-37 | |
| | 02 - Receptacle, connector, solderpot (metal shell) | | 11 - Connector, plug, CBR, | | J \ " | |
| | 03 - Plug, connector, crimp type (metal shell) | | 12 - Connector, plug, CBR, | | | |
| | 04 - Receptacle, connector, crimp type (metal shell) | | 13 - Connector, receptacle, | | | |
| | 05 - Hardware only ⁵ | | 14 - Connector, receptacle, | | | |
| Slash Sheet | , | | 15 - Connector, receptacle, | | | |
| | | | 16 - Connector, plug, board | | es 9-37 | |
| | | | 17 - Connector, plug, BR, si | | | |
| | | | 18 - Connector, plug, BR, si | | | |
| | | | 19 - Connector, receptacle, | BR, sizes 9-37 | | |
| | | | 20 - Connector, receptacle, | BR Size 51 | | |
| | | | 21 - Connector, receptacle, | BR Size 100 | | |
| | | | 22 - Connector, plug, board | straight (BS), Sizes | 9-37 | |
| | | | 23 - Connector, plug, BS, Si | ze 51 | | |
| | | | 24 - Connector, plug, BS, Si | ze 100 | | |
| | | | 25 - Connector, receptacle, | BS, Size 9-37 | | |
| | | | 26 - Connector, receptacle, | BS, Size 51 | | |
| | | | 27 - Connector, receptacle, | BS Size 100 | | |
| Insert | A - 9 Contact | | A - 9 Contact (metal shell) | | | |
| | B - 15 Contact | | B - 15 Contact (metal shell) | | | |
| | C - 21 Contact | | C - 21 Contact (metal shell) | | | |
| | D - 25 Contact | | D - 25 Contact (metal shell) | | | |
| Arrangement | E - 31 Contact | | E - 31 Contact (metal shell) | | | |
| | F - 37 Contact | | F - 37 Contact (metal shell) | | | |
| | G - 51 Contact | | G - 51 Contact (metal shell) | | | |
| | H - 100 Contact ³ | | H - 100 Contact (metal shel | II) | | |
| | No Number - For solderpot | | No Number - For solderpot | | | |
| | 01 - 18" long, #26 AWG per SAE-AS22759/11-26-9 (all | white) | 01109" long, #24 AWG | solid cooper wire pe | er A-A-59551-343, Type "S | ", solder dipped ⁶ |
| | 02 - 36" long, #26 AWG per SAE-AS22759/11-26-9 (all | white) | 02140" long, #24 AWG | solid copper wire po | er A-A-59551-343, Type "S | ", solder dipped ^{1,6} |
| | 03 - 18" long, #26 AWG per SAE-AS22759/11-26 | | 03172" long, #24 AWG | solid copper wire po | er A-A-59551-343, Type "S | ", solder dipped ⁶ |
| | color coded per MIL-STD-681, system 1, 10 colors repea | ting⁴ | | | | |
| | 04 - 26" long, #26 AWG per SAE-AS22759/11-26 | | | | | |
| Wire Type | color coded per MIL-STD-681, system 1, 10 colors repea | | | | | |
| | 055" long, #25 AWG, type S per A-A-59551-343, Go | | | | | |
| | 06 - 1.0" long, #25 AWG, type S per A-A-59551-343, G | | | | | |
| | 075" long, #25 AWG, type S per A-A-59551-343, Tin | | | | | |
| | 08 - 1.0" long, #25 AWG, type S per A-A-59551-343, Ti | | | | | |
| | 09 - 18" long, #26 AWG per SAE-AS22759/33-26-9 (all | | | | | |
| | 10 - 36" long, #26 AWG per SAE-AS22759/33-26-9 (all | white) ² | | | | |
| | 11 - 18" long, #26 AWG per SAE-AS22759/33-26 | +:? 4 | | | | |
| | color coded per MIL-STD-681, system 1, 10 colors repear | | | | | |
| | 12 - 36" long, #26 long #AWG per ASAE-AS2759/33-2 color coded per MIL-STD 681, system 1, 10 colors repeat | | | | | |
| | 13 - 72" long, #26 AWG per SAE-AS22759/11-26-9 (all | | | | | |
| | 13 - 72" long, #26 AWG per SAE-AS22759/11-26-9 (all 14 - 72" long, #26 AWG per SAE-AS22759/11-26 | wille) | | | | |
| | color coded per MIL-STD-681, system 1, 10 colors repea | tina ⁴ | | | | |
| | 15 - 72" long, #26 AWG per SAE-AS22759/33-26-9 (all | | | | | |
| | 16 - 72" long, #26 AWG per SAE-AS22759/33-26 | wintej | | | | |
| | color coded per MIL-STD-681, system 1, 10 colors repea | tina ^{2, 4} | | | | |
| | C - Cadmium | -··· y | C - Cadmium | | | |
| Shell Finish | N - Electroless nickel | | N - Electroless nickel ² | | | |
| | | | N - No jackpost | | | |
| Hardware | | | P - Jackpost (permanently a | ittached) | | |
| Haraware | | | T - Threaded insert | | | |

^{1 -} Tolerance on wire lengths: 18", 36" and 72" long - +1.00"/-0.00. 2 - For space applications, connector shell finish must be "A174" and wire must be per SAE-AS22759/33-26. 3 - Size 100 not available in /06 through /09. 4 - Color coding in accordance with MilL-STD-681, system 1. 5 - For mounting hardware to Military Specifications (sizes 9 to 100). 6 - Tolerance on termination ± .015



Why ITT

ITT is a focused, multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, industrial and medical end markets. We design and engineer a variety of interconnect solutions that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Cannon representative today or visit www.ittcannon.com

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