



ITT Cannon HDx™ Series

High-Density, Ultrareliable Small-Form-Factor Interconnect Solution



ITT Cannon's HDx™ Series offers a reliable, small form factor (SFF) solution in a lightweight, compact design. With breakaway or screw-lock breakaway coupling options, this high-density interconnect enables critical USB, HDMI, or Ethernet high speed data transmission.



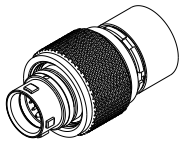
Cannon's HDx™ Series comes in an anti-glare, non-reflective Ruthenium plating and is rated up to 20-meter sealing depth when mated. This combined with its high durability rating, provide end users with a dependable interconnect system in any mission critical situation.

Features & Benefits

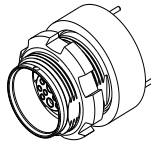
- Lightweight, compact design
- Ultra-high-density layouts
- Support signal and power
- Support high speed data
 - USB® 3.2 Gen 1 up to 5Gbit/s
 - Ethernet up to 10Gbit/s
 - HDMI® up to 8.16Gbit/s
- Watertight to 20-meter depth
- High durability: +5000 mating cycles
- Anti-glare, non-reflective plating
- Breakaway or threaded locking options

Specifications

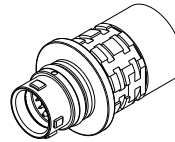
Mechanical Shock	No electrical discontinuity > 1µs from 50g amplitude, 1/2 sine shock pulse of 6ms MIL-STD-810G method 516.5 procedure I, figure 516.7-12 / EIA-364-27C	
Sinusoidal Vibration	10-2,000Hz, 15g, No electrical discontinuity > 1µs Sine Profile: EIA-364-28F condition IV / MIL-STD-202, method 204, condition G	
Reflectance	Exposed portions of connectors shall not expose shiny, reflective surfaces	
Color	Exposed portions of connector shall be dark gray	
Chemical Safety	Materials shall not create a toxic health hazard	
Durability @ Ambient Temperature	5000 mating cycles	
Wire Accommodation	#22 - #28 AWG, layout dependent: Ø0.3mm solder contacts: 28 AWG and Ø0.7mm solder contacts: 22 AWG"	
Intermateability	Tested to Intermate with competitor plugs and receptacles	
Current Rating (MIL-STD-810G)	Ø0.3mm Contacts: 1 Amp max. (Single Contact)	Ø0.7mm Contacts: 5 Amps (single contact)
Operational Voltage	250VDC	
DWV, At Sea Level	Leakage less than 2mA @ 1000 VDC. No flashover	
Insulation Resistance @ Ambient Temp	> 100 MΩ, tested at 500 VDC +/- 10% @ 1 Amp	
Low Level Contact Resistance (Mated, unwired contacts only)	Ø0.3mm <5 mOhm	Ø0.7mm <4 mOhm
Shell to Shell Conductivity	<5 mOhms	
Operating Temperature	-51°C to +125°C	
Salt Spray, Static / Corrosion Resistance	Connector shall operate in and when stored in a salt fog atmosphere without protective covers - 96 hours unmated. (EIA-364-26, condition A / MIL-STD-810G method 509.5)	
Water Immersion-Mated	20 meters / 28.5 psi for 120 minutes (MIL-STD-810G method 512.5 procedure 1 / 20 meter profile, IPX8)	



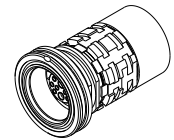
In-Line Breakaway Plug with Locknut - C1



Rear Panel Mount Receptacle - GK



In-Line Breakaway Plug - A1



In-Line Breakaway Receptacle - K1

1- Product	2- Series	3- Type	4- Shell Style	5- Material	6- Arrangement	7- Contact Style	8- Contact Diameter	9- Polarization	10- Earth Tag	11- Mod Codes
HDX -	W	A	1	M	0-09	X	M	A		

1 - Product	
HDX	Density small form factor (SFF)
2 - Series	
W	High density
3- Type	
G	Receptacle, panel mount
K	In-line receptacle
A	Breakaway plug
C	Plug with locknut

4 - Shell Style	
1	In-line
K	Rear panel mount, low profile inside device
5 - Material and Finish	
M	Brass alloy / ruthenium over electroless nickel (series W)
6- Arrangement (See Table Below)	
0-09, 0-12, 0-16	
7 - Contact Style	
W	Socket, solder cup (receptacle only)
X	Pin, solder cup (plug only)
U	Socket, PC-tail (receptacle only)

8 - Contact Diameter	
B	0.3mm
F	0.7mm
M	Combo / Mixed
9- Shell Polarization	
A	Brown color code
B	Red color code
C	Blue color code
D	Green color code
10- Receptacle Earth Tag	
L	Applicable to GC, GK and G8 ONLY
OMIT	All other styles and types
11- MOD Codes	
Leave blank if none	

Contact Specification							
Layout	Contact Count	Contact Diameter (mm)	Wire Size (AWG)	Max Current	Voltage (VDC)	Application	
0-09		3	0.3	28 AWG	1A	250	USB 2.0 + Power
		6	0.7	22 AWG	5A		
0-12		10	0.3	28 AWG	1A	250	USB 3.2 Gen 1 + Power
		2	0.7	22 AWG	5A		
0-16		16	0.3	28 AWG	1A	250	Signal

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