





ITT Cannon HDx[™] Series

High-Density, Ultra-Reliable Small Form Factor Interconnect Solution



ITT Cannon's HDx^{TM} 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 enable 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 it's 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 & power
- Support high speed data
 - USB® 3.1 Gen1 up to 5Gbit/s
 - Ethernet up to 10Gbit/s
 - HDMI® up to 8.16 Gbit/s
- Watertight to 20 meter depth
- High-durability +5000 mating cycles
- Anti-glare, non-reflective plating
- Break-Away or Threaded Locking Options

Specifications

Mechanical Shock	No electrical discontinuity $> 1\mu$ s 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 $> 1\mu s$ 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 M Ω , 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)				

Ordering Guide



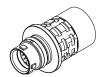


In-Line Breakaway Plug with Locknut- C1



Rear Panel Mount Receptacle - GK

4 - Shell Style



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	А	1	М	0-09	Х	М	А		

1 - Product						
HDX	High Density Small Form Factor					
2 - Se	2 - Series					
W -	High Density					
3- Ty _l	3- Type					
G -	Receptacle, Panel Mount					
K -	In-Line Receptacle					
Α -	Break-Away Plug					
C -	Plug with Locknut					

1 -	In-Line				
K -	Rear Panel Mount, Low Profile Inside Device				
5 - M	aterial and Finish				
M -	Brass Alloy / Ruthenium over Electroless Ni (Series W)				
6- Arrangement (See Table Below)					
	0-09, 0-12, 0-16				
7 - Co	ontact Style				
W -	Socket, Solder Cup (Receptacle Only)				
X -	Pin, Solder Cup (Plug Only)				
U-	Socket, PC-Tail (Receptacle Only)				

8 - Contact	t Diameter					
В -	0.3mm					
F-	0.7mm					
M -	Combo / Mixed					
9- Shell Polarization						
Α-	Brown Color Code					
В -	Red Color Code					
C -	Blue Color Code					
D -	Green Color Code					
10- Recept	10- Receptacle Earth Tag					
L -	Applicable to GC, GK and G8 ONLY					
OMIT -	All other styles and types					
11- MOD Codes						
Leave Blank	Leave Blank if None					

Contact Specification								
Layout		Contact Count	Contact Diameter (mm)	Wire Size (AWG)	Max Current	Voltage (VDC)	Application	
0.00		3	0.3	28 AWG	1A	250	USB 2.0 + Power	
0-09		6	0.7	22 AWG	5A			
0.12	000	10	0.3	28 AWG	1A	250	USB 3.2 Gen 1 + Power	
0-12		2	0.7	22 AWG	5A	250		
0-16	0000	16	0.3	28 AWG	1A	250	Signal	

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