





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 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 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



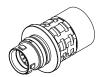


In-Line Breakaway Plug with Locknut- C1



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 - Series					
W -	High Density				
3- Туре					
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 - Material and Finish						
M -	Brass Alloy / Ruthenium over Electroless Ni (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						
В -	0.3mm					
F-	0.7mm					
M -	Combo / Mixed					
9- Shell Polarization						
A -	Brown Color Code					
В -	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	
0.00		3	0.3	28 AWG	1A	250	USB 2.0 + Power	
0-09		6	0.7	22 AWG	5A			
0-12	0000	10	0.3	28 AWG	1A	250	USB 3.2 Gen 1 + Power	
		2	0.7	22 AWG	5A			
0-16	0000	16	0.3	28 AWG	1A	250	Signal	

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

Follow us



CHINA - Shenzhen City +86.755.2726.7888

FRANCE HONG KONG +33.1.60.04.93.93 +852.2732.2720

GERMANY - Weinstadt +49.7151.699.0

ITALY - Lainate +39.02938721 JAPAN - Kanagawa

+81.462.57.2010

KOREA +82.2.702.7111

MEXICO - Nogales +52.631.311005 **SHANGHAI** + 86.21.2231.2222.2 **SINGAPORE** +65 66974205 UK - Basingstoke +44.1256.347400 USA - Irvine, CA +1.800.854.3028