

HDMI WEATHERTIGHT CONNECTORS

NPB | C714



FEATURES & BENEFITS

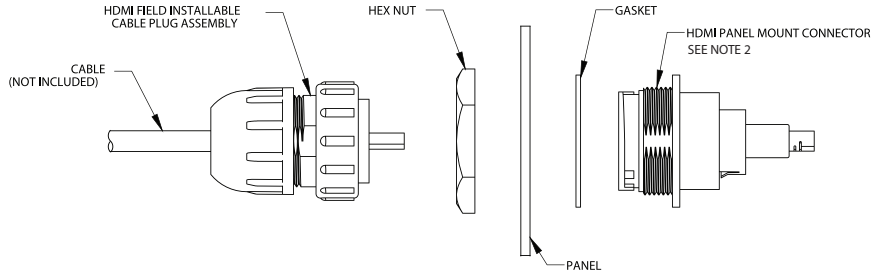
- Sealed to IP67 & IP68 NEMA 250 (6P)
(when panel connector is rear mounted
and mated to the cable)
- Feed-thru termination on the panel for
easy field installation
- Easy to assemble
- Quick connect bayonet or threaded
style interface
- RoHS Compliant - UV F1 rated housing

APPLICATIONS

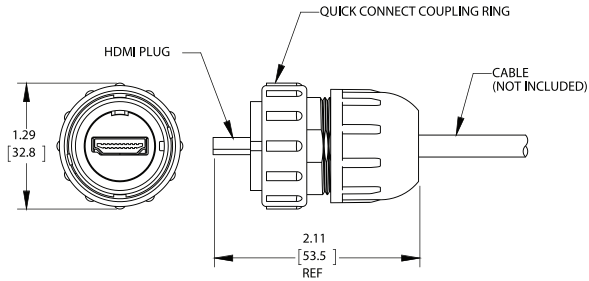
- Data transmission
- Military or industrial
GPS location devices
- Instrumentation
- Medical data carts
- Data acquisition units
- General industrial applications

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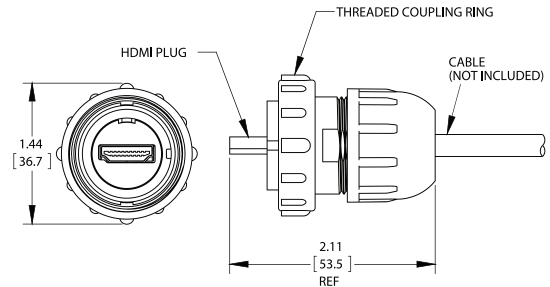
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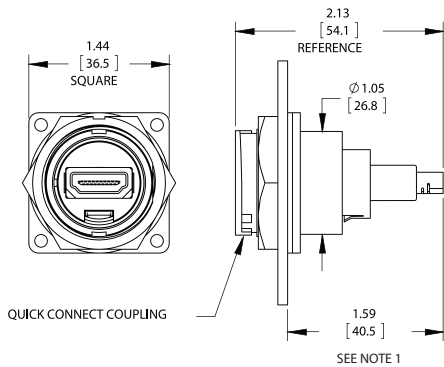
INDUSTRIAL HDMI CABLE PLUG
 QUICK CONNECT COUPLING
 (DCC-HDMIB-310 SHOWN)



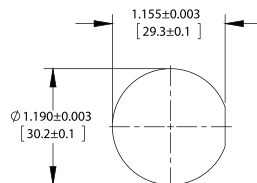
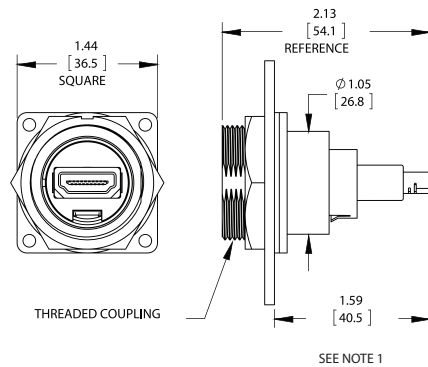
INDUSTRIAL HDMI CABLE PLUG
 THREADED COUPLING
 (DCC-HDMIT-310 SHOWN)



DCP-HDMIB-F SHOWN
 (HDMI FEED-THRU CONNECTOR WITH QUICK-CONNECT COUPLING)



DCP-HDMIT-F SHOWN
 (HDMI FEED-THRU CONNECTOR WITH THREADED COUPLING)



RECOMMENDED PANEL CUT-OUT
 QUICK CONNECT COUPLING
 OR THREADED COUPLING

NOTE 1: THE DIMENSION DOES NOT INCLUDE GASKET COMPRESSION.

NOTE 2: THE PANEL CONNECTOR MEETS IP67 & IP68, NEMA 250 (6P) WHEN CONNECTOR IS REAR MOUNTED USING THE HEX NUT.

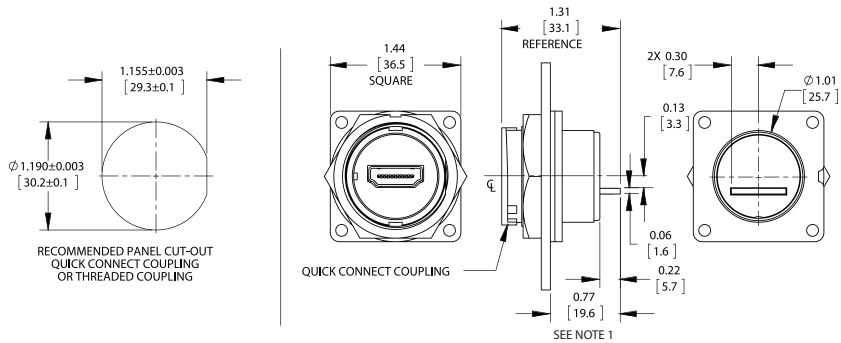
UNITS ARE LISTED IN INCHES [mm]. ALL DIMENSIONS ARE REFERENCE ONLY.

PLEASE VISIT WWW.CONXALL.COM FOR THE MOST UP-TO-DATE PRODUCT SPECIFICATIONS.

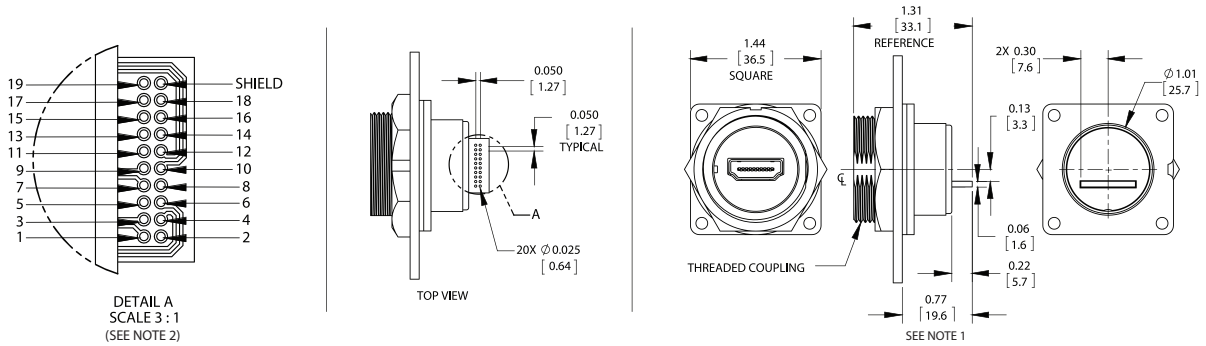
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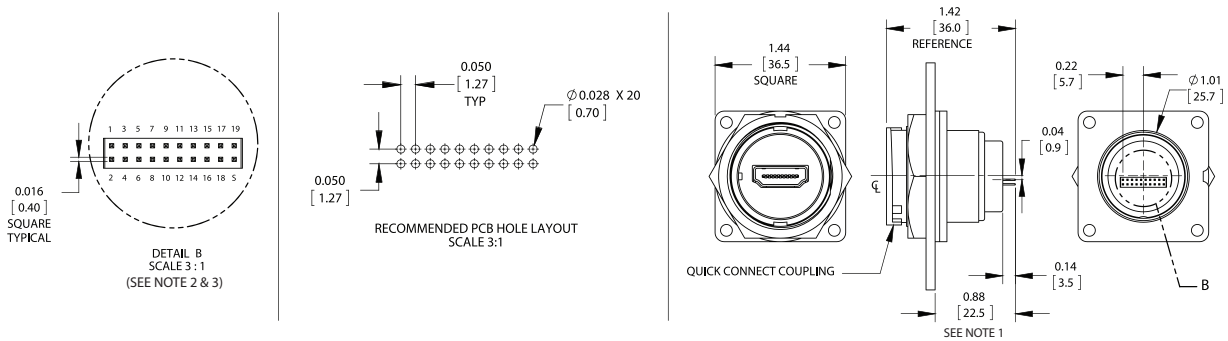
DCP-HDMIB-SC SHOWN
(HDMI CONNECTOR TO PCB HOLES WITH QUICK-CONNECT COUPLING)



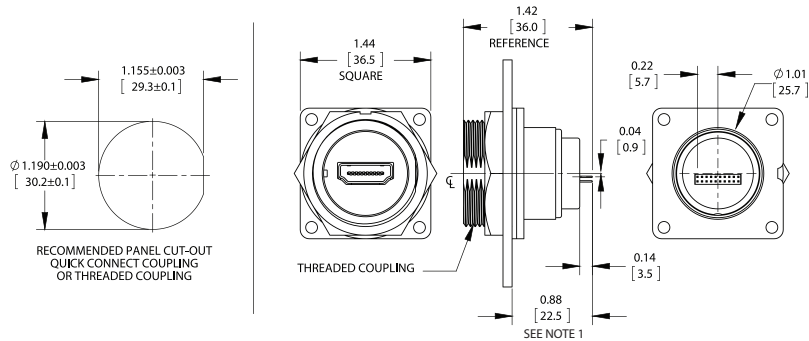
DCP-HDMIT-SC SHOWN
(HDMI CONNECTOR TO PCB HOLES WITH THREADED COUPLING)



DCP-HDMIB-HD SHOWN
(HDMI CONNECTOR TO HEADER WITH QUICK-CONNECT COUPLING)



DCP-HDMIT-HD SHOWN
(HDMI CONNECTOR TO HEADER WITH THREADED COUPLING)



NOTE 1: THE DIMENSION DOES NOT INCLUDE GASKET COMPRESSION. NOTE 2: THE PINOUT IS TYPICAL FOR THREADED OR QUICK CONNECT COUPLING.
NOTE 3: THE NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON THE PART.
UNITS ARE LISTED IN INCHES [mm]. ALL DIMENSIONS ARE REFERENCE ONLY.

PLEASE VISIT WWW.CONXALL.COM FOR THE MOST UP-TO-DATE PRODUCT SPECIFICATIONS.

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SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Life:	Minimum 350 insertion/withdrawal cycles
Hex Nut Torque:	10-12 in-lb max
Coupling Locking Style:	Quick Connect (Bayonet) or Threaded
Backshell Style:	Threaded Nut-Squeezed Grommet

ELECTRICAL SPECIFICATIONS

Current Rating:	0.5 A
Contact Resistance:	50 mΩ max
Insulation Resistance:	10 MΩ min (mated)
Dielectric Withstanding Voltage:	300 V AC/one minute (mated)

ENVIRONMENTAL SPECIFICATIONS

Temperature Rating:	-20 °C to +80 °C (-4°F to +176°F)
Moisture Resistance:	Mil-Std 202G Method 106G
Insulation Resistance:	Mil-Std 202G Method 302
Vibration:	Mil-Std 202G Method 201A
Thermal Shock:	Mil-Std 202G Method 107G
Weathertight:	IP67 & IP68, NEMA 250 (6P) (when rear mounted & mated)
Salt Atmosphere (Corrosion):	Mil-Std 202G Method 101E

MATERIAL SPECIFICATIONS

Plug Nut, Coupling Ring:	Thermoplastic
Plug Housing, Insert:	Thermoplastic
Sealing Ring, O-Ring:	Elastomer
Panel Housing, Hex Nut:	Thermoplastic
Gasket:	Elastomer

HDMI Plug:

Shell:	Copper Alloy, Nickel Plated
Contacts:	Copper Alloy, Gold Plated over Nickel
Insulator:	Thermoplastic
PCB:	FR-4

HDMI Feed-Thru Receptacle:

Shell:	Copper Alloy, Nickel Plated
Contacts:	Copper Alloy, Gold Plated
Insulator:	Thermoplastic

HDMI PCB Receptacle:

Shell:	Copper Alloy, Tin Plated
Contacts:	Copper Alloy, Selective Gold Plated
Insulator:	Thermoplastic

MOLDED CABLE ASSEMBLIES

Consult factory for molded options

OTHER

Flame Rating:	UL 94V-0
Recommended Panel Thickness:	1/32" - 3/16" [0.8mm to 4.8mm] - Quick Connect Coupling 1/32" - 5/32" [0.8mm to 3.9mm] - Threaded Coupling

Recommended Cable Type

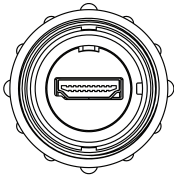
Cable Type:	HDMI High Speed
Outer Cable O.D. Range:	0.197"-0.236" [5.0mm-6.0mm]

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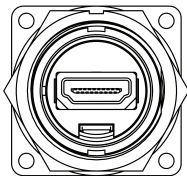
PART NUMBERS

INDUSTRIAL HDMI PLUG - FIELD INSTALLABLE



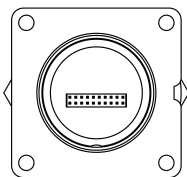
PART NUMBER	COUPLING TYPE
DCC-HDMIB-310	QUICK CONNECT
DCC-HDMIT-310	THREADED

HDMI PANEL CONNECTOR - FEED-THRU



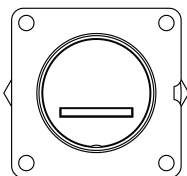
PART NUMBER	COUPLING TYPE	DESCRIPTION
DCP-HDMIB-F	QUICK CONNECT	HDMI FEED-THRU PANEL CONNECTOR
DCP-HDMIT-F	THREADED	HDMI FEED-THRU PANEL CONNECTOR

HDMI PANEL CONNECTOR - HDMI TO HEADER



PART NUMBER	COUPLING TYPE	DESCRIPTION
DCP-HDMIB-HD	QUICK CONNECT	HDMI CONNECTOR TO 20 PIN HEADER
DCP-HDMIT-HD	THREADED	HDMI CONNECTOR TO 20 PIN HEADER

HDMI PANEL CONNECTOR - HDMI TO PCB HOLES



PART NUMBER	COUPLING TYPE	DESCRIPTION
DCP-HDMIB-SC	QUICK CONNECT	HDMI CONNECTOR TO PCB HOLES
DCP-HDMIT-SC	THREADED	HDMI CONNECTOR TO PCB HOLES

CON-X[®] ELECTRICAL CURRENT RATING CHART

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
#12	#12	1 through 7	23.0A
	#14	1 through 3	17.0A
		4 through 6	12.75A
		7 through 9	11.0A
	#16	1 through 3	13.0A
		4 through 6	9.75A
7		8.45A	
#16	#16	1 through 10	13.0A
		11 and 12	7.5A
	#18	1 through 3	10.0A
		4 through 12	7.5A
#20	#18	1 through 3	7.5A
		4 through 20	5.6A
		21 through 31	2.3A
	#20	1 through 3	7.5A
		4 through 20	5.6A
		21 through 31	2.3A
	#20 Multi-Con-X	10 through 12	5.0A
	#22	1 through 3	6.0A
		4 through 20	2.5A
		21 through 31	2.5A
	#24	1 through 3	4.5A
		4 through 20	2.0A
21 through 31		1.5A	
#22	#22	4	5.5A
	#24	4	5.0A
#26	#24	5 to 6	4.0A
	#24	7	3.5A
	#26	5 to 6	2.5A
	#26	7	2.5A
	#28*	5 to 6	2.0A
	#28*	7	2.0A

*Not UL tested for this wire conductor size

MAX. NUMBER AND SIZE OF CONTACTS PER SERIES:

4 - #12 Multi-Con-X	6 - #16 Multi-Con-X	8 - #20 Mini-Con-X	31 - #20 Mega-Con-X
7 - #12 Maxi-Con-X	12 - #16 Maxi-Con-X	9 - #20 Multi-Con-X	4 - #22 Micro-Con-X
5 - #16 Mini-Con-X	3 - #20 Micro-Con-X	20 - #20 Maxi-Con-X	7 - #26 Micro-Con-X

TOOLING

CON-X® MANUAL CONTACT CRIMPING TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes	Conductor Strip Length
359-24	Multi Contact Turret Crimp Tool	357-124	#12	12-14 AWG	7/32 in
			#16	16-18-20 AWG	7/32 in
			#20	20-22-24 AWG	3/16 in
359-21	Single Contact Crimp Tool	357-122	#20	20-22-24 AWG	3/16 in
		357-125	#22	22-24 AWG	5/32 in
		357-126	#26(Cable Pin Only)	24-26-28 AWG	3/16 in
		357-127	#26(Panel Pin, Cable & Panel Socket)	24-26-28 AWG	3/16 in

CON-X® MANUAL CONTACT INSERTION TOOL

Handle	Description	Insertion Bits	Contact Sizes
356-1	Single Contact Hand Tool	356-12	#12
		356-16	#16
		356-20	#20
		356-22	#22 (20 AWG Crimp Barrel)
		356-22-1-K	#22 (22 AWG Crimp Barrel)
		356-26-K	#26

MIL-E-QUAL® MANUAL CONTACT CRIMPING TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes	Conductor Strip Length
359-24	Hand Crimp Tool	358-112	#12	12-14 AWG	7/32 in
			#16	16-18-20 AWG	9/32 in

MIL-E-QUAL® MANUAL CONTACT INSERTION TOOL

Handle	Description	Insertion Bits	Contact Sizes
356-1	Single Contact Hand Tool	356-12	#12
		356-16	#16