

# CONXALL®

A SWITCHCRAFT COMPANY



## HDMI WEATHERTIGHT CONNECTORS

NPB | C714

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## FEATURES & BENEFITS

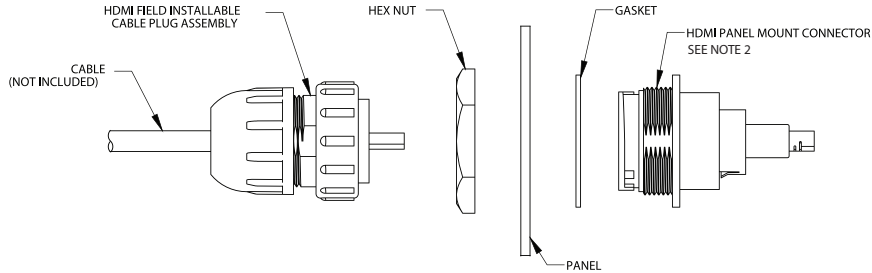
- Sealed to IP67 & IP68 NEMA 250 (6P)  
(when panel connector is rear mounted  
and mated to the cable)
- Feed-thru termination on the panel for  
easy field installation
- Easy to assemble
- Quick connect bayonet or threaded  
style interface
- RoHS Compliant - UV F1 rated housing

## APPLICATIONS

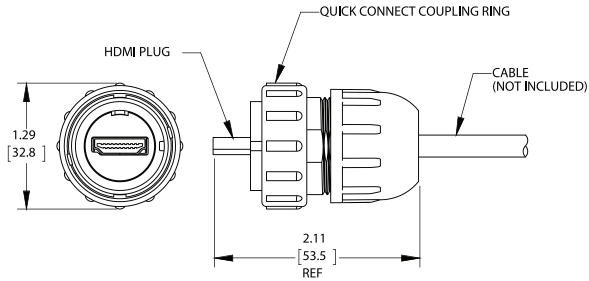
- Data transmission
- Military or industrial  
GPS location devices
- Instrumentation
- Medical data carts
- Data acquisition units
- General industrial applications

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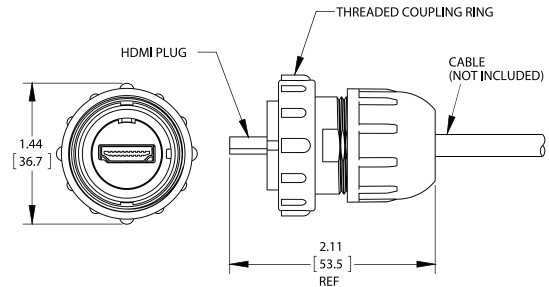
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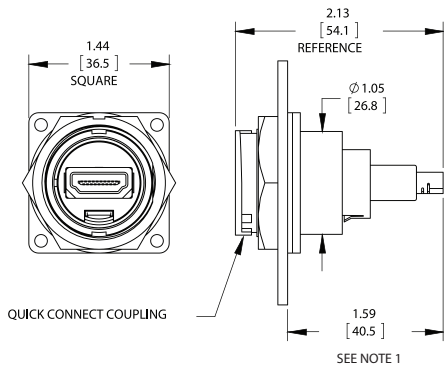
INDUSTRIAL HDMI CABLE PLUG  
QUICK CONNECT COUPLING  
(DCC-HDMIB-310 SHOWN)



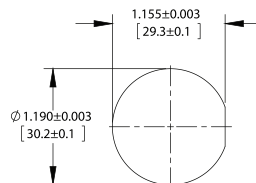
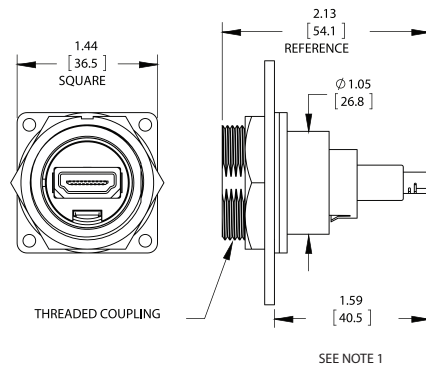
INDUSTRIAL HDMI CABLE PLUG  
THREADED COUPLING  
(DCC-HDMIT-310 SHOWN)



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.

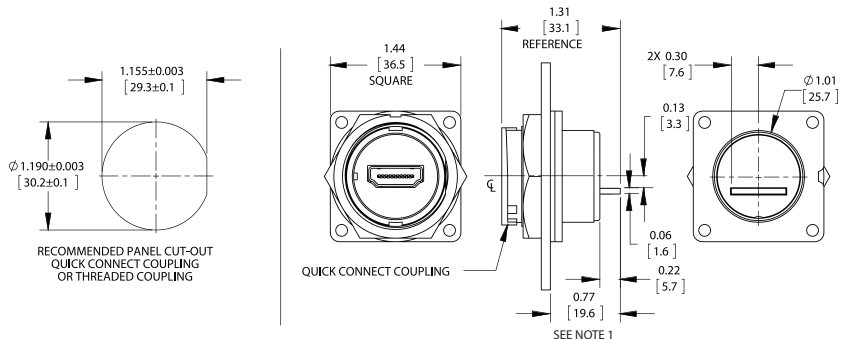
UNITS ARE LISTED IN INCHES [mm]. ALL DIMENSIONS ARE REFERENCE ONLY.

PLEASE VISIT [WWW.CONXALL.COM](http://WWW.CONXALL.COM) FOR THE MOST UP-TO-DATE PRODUCT SPECIFICATIONS.

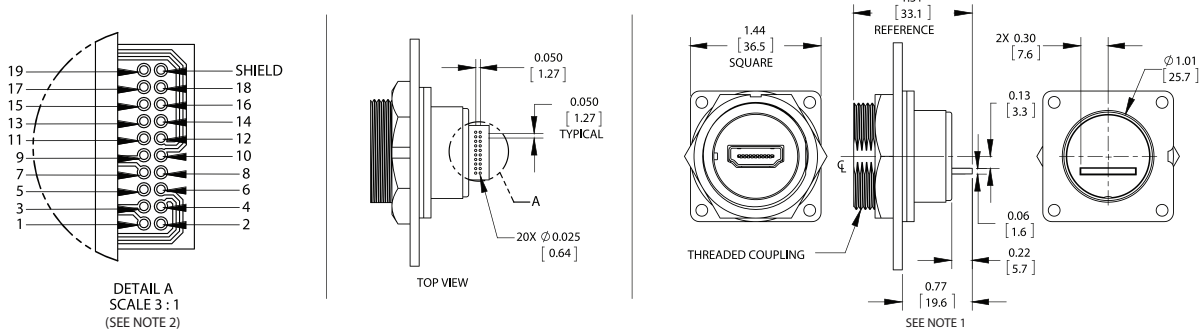
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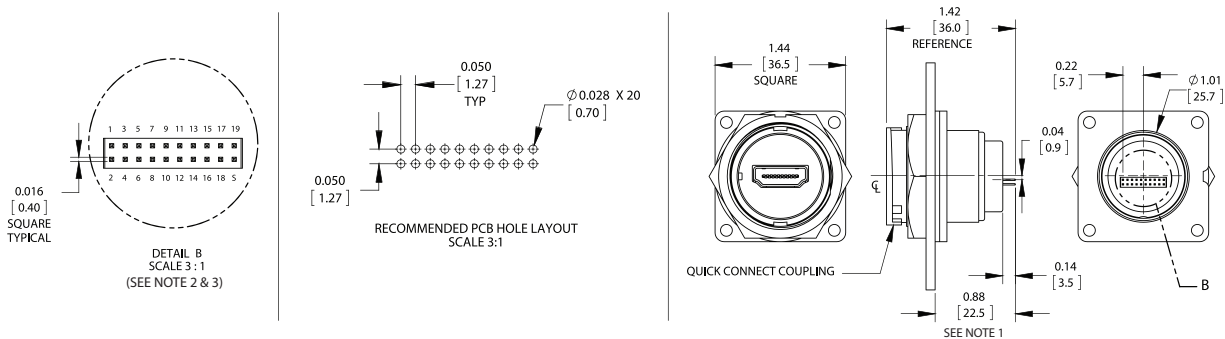
DCP-HDMIB-SC SHOWN  
(HDMI CONNECTOR TO PCB HOLES WITH QUICK-CONNECT COUPLING)



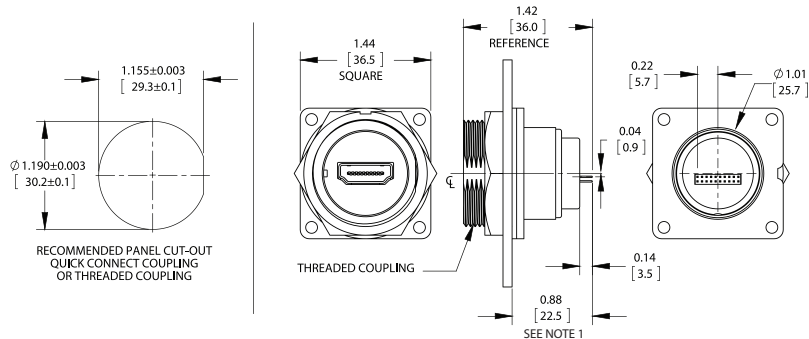
DCP-HDMIT-SC SHOWN  
(HDMI CONNECTOR TO PCB HOLES WITH THREADED COUPLING)



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.

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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<br>1/32" - 5/32" [0.8mm to 3.9mm] - Threaded Coupling |

### Recommended Cable Type

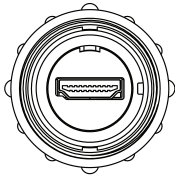
|                         |                             |
|-------------------------|-----------------------------|
| Cable Type:             | HDMI High Speed             |
| Outer Cable O.D. Range: | 0.197"-0.236" [5.0mm-6.0mm] |

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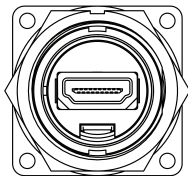
## PART NUMBERS

### INDUSTRIAL HDMI PLUG - FIELD INSTALLABLE



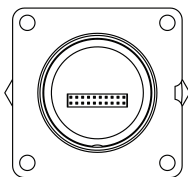
| PART NUMBER   | COUPLING TYPE |
|---------------|---------------|
| DCC-HDMIB-310 | QUICK CONNECT |
| DCC-HDMIT-310 | THREADED      |

### HDMI PANEL CONNECTOR - FEED-THRU



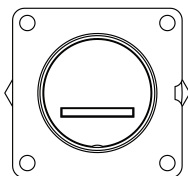
| PART NUMBER | COUPLING TYPE | DESCRIPTION                    |
|-------------|---------------|--------------------------------|
| DCP-HDMIB-F | QUICK CONNECT | HDMI FEED-THRU PANEL CONNECTOR |
| DCP-HDMIT-F | THREADED      | HDMI FEED-THRU PANEL CONNECTOR |

### 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 |

# Mouser Electronics

Authorized Distributor

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## Switchcraft:

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