

# HDMI WEATHERTIGHT CONNECTORS NPB | C714

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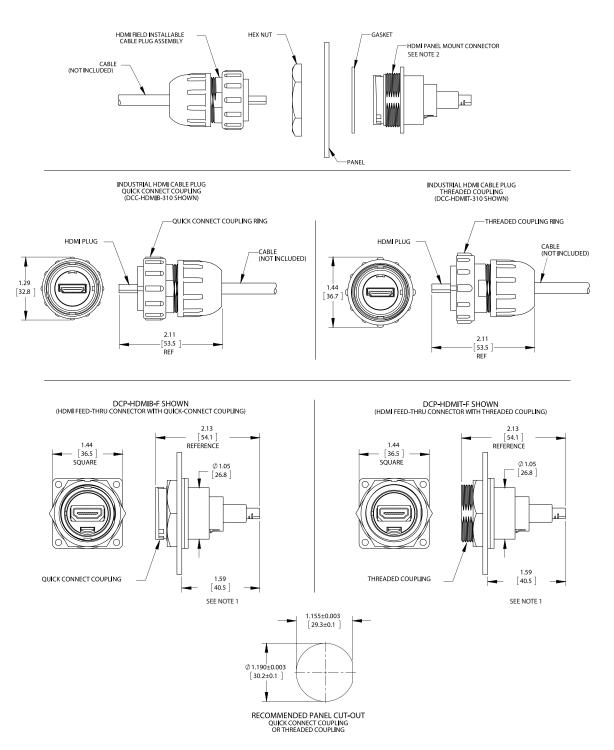
### **FEATURES & BENEFITS**

- 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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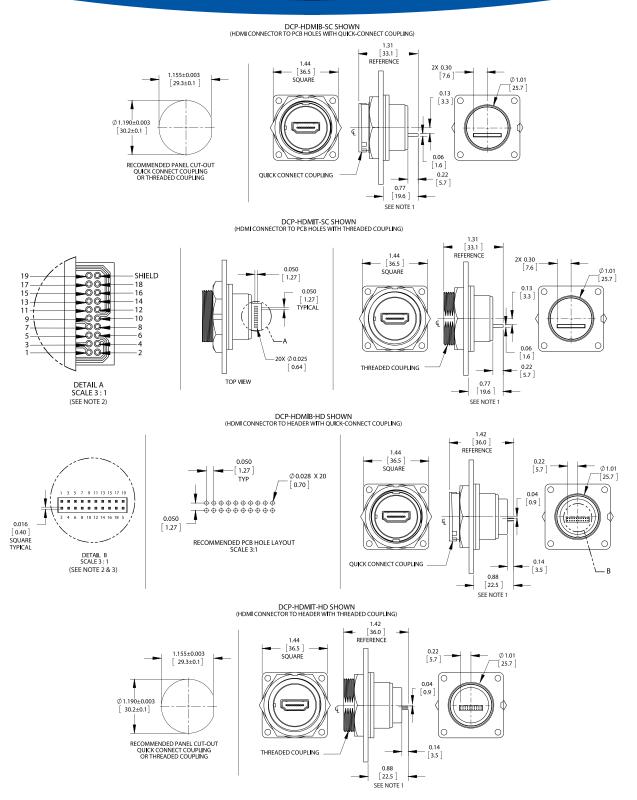


NOTE 1: THE DIMENSION DOES NOT INCLUDE GASKET COMPRESSION.

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.

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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.

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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** 

 $\begin{array}{ll} \text{Current Rating:} & 0.5 \text{ A} \\ \text{Contact Resistance:} & 50 \text{ m}\Omega \text{ max} \end{array}$ 

Insulation Resistance:  $10 \text{ M}\Omega \text{ min (mated)}$ 

Dielectric Withstanding Voltage: 300 V AC/one minute (mated)

**ENVIRONMENTAL SPECIFICATIONS** 

Temperature Rating:  $-20 \,^{\circ}\text{C}$  to  $+80 \,^{\circ}\text{C}$  ( $-4 \,^{\circ}\text{F}$  to  $+176 \,^{\circ}\text{F}$ ) 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:

Plug Housing, Insert:

Sealing Ring, O-Ring:

Panel Housing, Hex Nut:

Gasket:

Thermoplastic

Thermoplastic

Elastomer

Thermoplastic

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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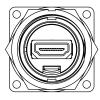
### **PART NUMBERS**

#### INDUSTRIAL HDMI PLUG - FIELD INSTALLABLE



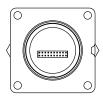
PART NUMBER	COUPLING TYPE
DCC-HDMIB-310	QUICK CONNECT
DCC-HDMIT-310	THREADED

#### HDMI PANEL CONNECTOR - FEED-THRU



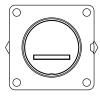
PART NUMBER	COUPLING TYPE	DESCRIPTION
DCP-HDMIB-F	QUICK CONNECT	HDMI FEED-THRU PANEL CONNECTOR
DCP-HDMIT-F	THREADED	HDMI FEED-THRU PANEL CONNECTOR

#### 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