Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

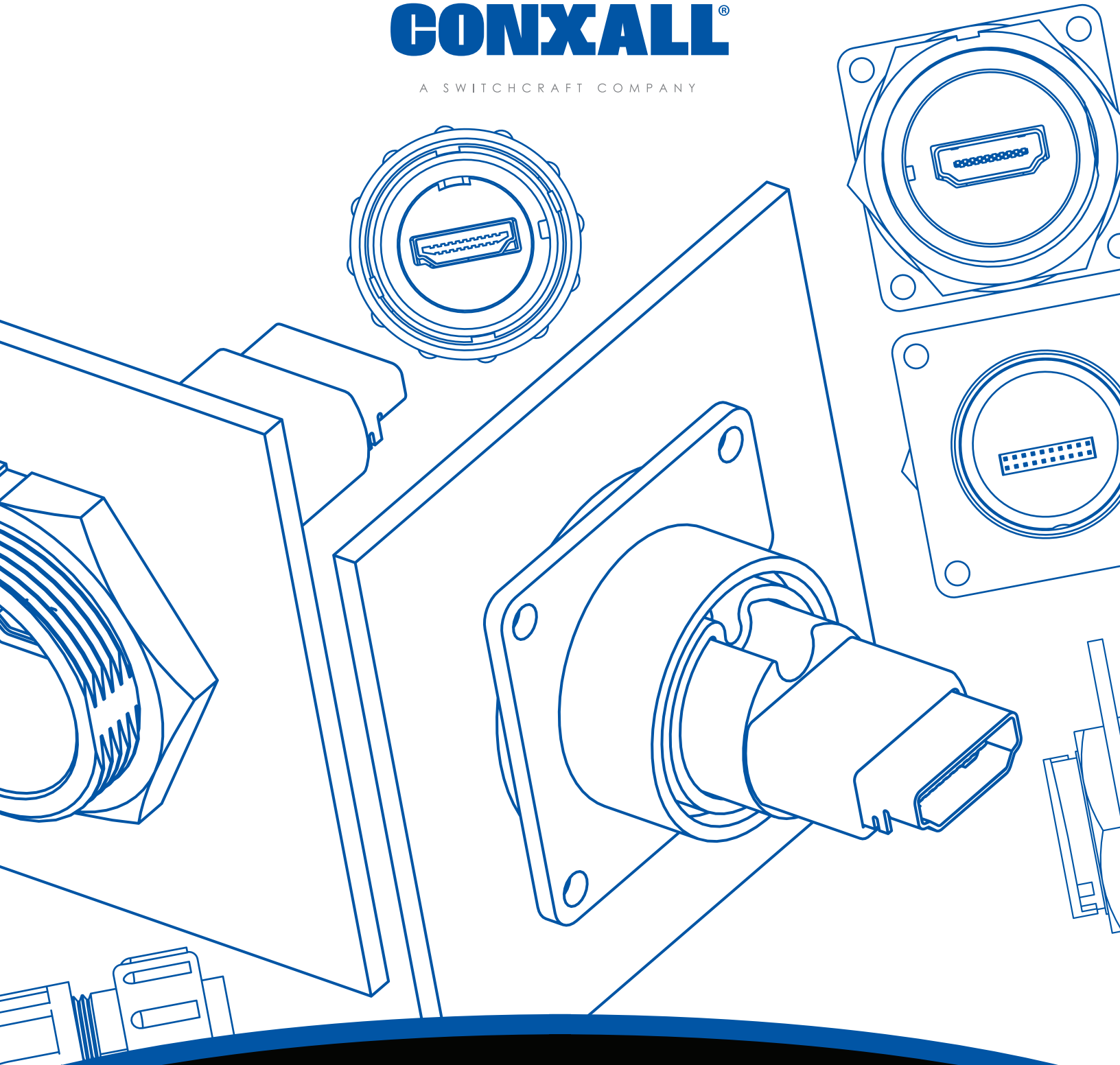Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

CONXALL®

A SWITCHCRAFT COMPANY

HDMI WEATHERTIGHT CONNECTORS
NPB | C714

HDMI WEATHERTIGHT CONNECTORS
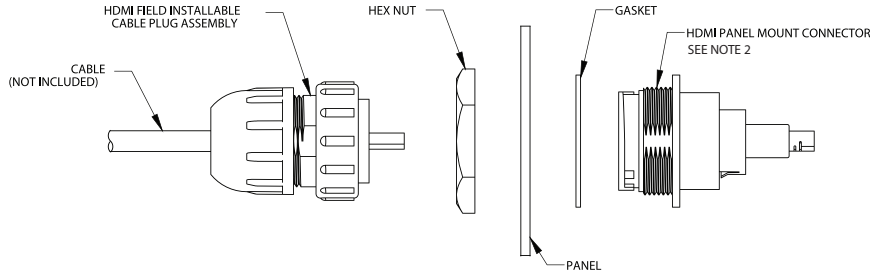
NPB | C714

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

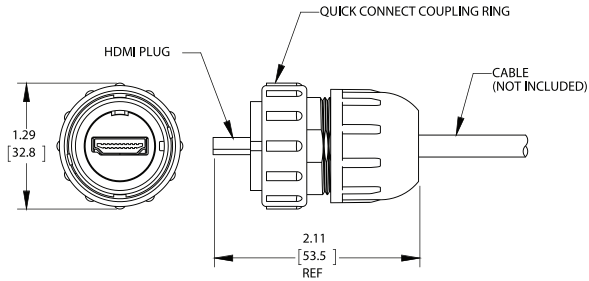- RoHS Compliant - UV F1 rated housing

APPLICATIONS

- Data transmission

- Military or industrial GPS location devices

- Instrumentation

- Medical data carts

- Data acquisition units

- General industrial applications
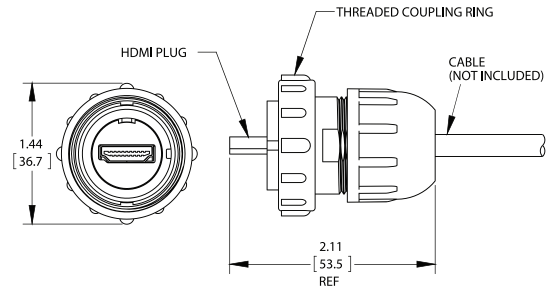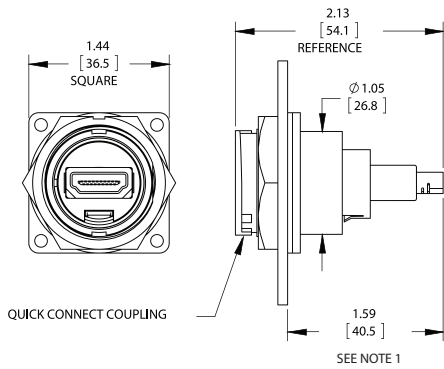
HDMI WEATHERTIGHT CONNECTORS
NPB | C714

HDMI FIELD INSTALLABLE
CABLE PLUG ASSEMBLY

HEX NUT

GASKET

HDMI PANEL MOUNT CONNECTOR
SEE NOTE 2

CABLE
(NOT INCLUDED)

PANEL

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

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

QUICK CONNECT COUPLING RING

THREADED COUPLING RING

HDMI PLUG

HDMI PLUG

CABLE
(NOT INCLUDED)

CABLE
(NOT INCLUDED)

1.29
[32.8]

1.44
[36.7]

2.11
[53.5]
REF

2.11
[53.5]
REF

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

DCP-HDMIT-F SHOWN
(HDMI FEED-THRU CONNECTOR WITH THREADED COUPLING)
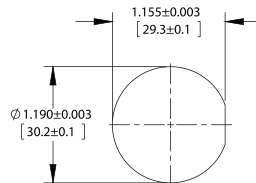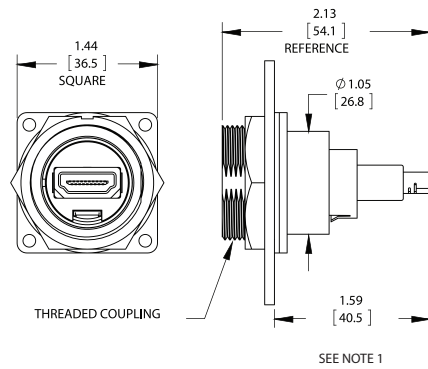
1.44
[36.5]
SQUARE

2.13
[54.1]
REFERENCE

∅ 1.05
[26.8]

1.44
[36.5]
SQUARE

2.13
[54.1]
REFERENCE

∅ 1.05
[26.8]

QUICK CONNECT COUPLING

1.59
[40.5]

SEE NOTE 1

THREADED COUPLING

1.59
[40.5]

SEE NOTE 1

1.155±0.003
[29.3±0.1]

∅ 1.190±0.003
[30.2±0.1]

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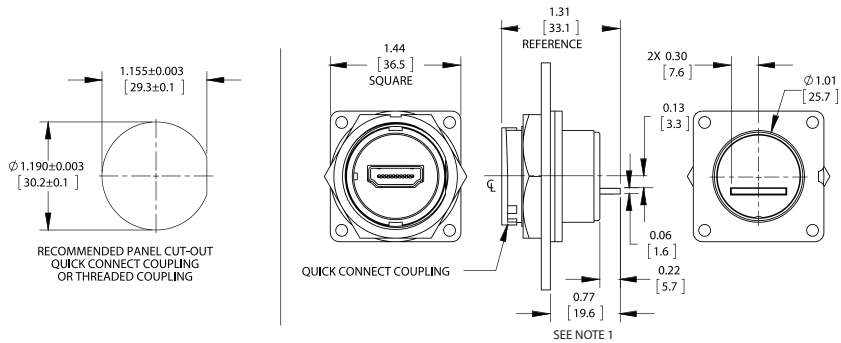
UNITS ARE LISTED IN INCHES [mm]. ALL DIMENSIONS ARE REFERENCE ONLY.

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

1.31 [33.1] REFERENCE
1.44 [36.5] SQUARE
2X 0.30 [7.6]
Ø1.01 [25.7]
0.13 [3.3]
0.06 [1.6]
0.22 [5.7]
0.77 [19.6]
SEE NOTE 1

1.155±0.003 [29.3±0.1]
Ø1.190±0.003 [30.2±0.1]
RECOMMENDED PANEL CUT-OUT
QUICK CONNECT COUPLING
OR THREADED COUPLING

QUICK CONNECT COUPLING

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

19 SHIELD
17 18
15 16
13 14
11 12
9   10
7   8
5   6
3   4
1   2

DETAIL A
SCALE 3 : 1
(SEE NOTE 2)

0.050 [1.27]
0.050 [1.27] TYPICAL
20X Ø0.025 [0.64]
TOP VIEW
A

1.31 [33.1] REFERENCE
1.44 [36.5] SQUARE
2X 0.30 [7.6]
Ø1.01 [25.7]
0.13 [3.3]
0.06 [1.6]
0.22 [5.7]
0.77 [19.6]
SEE NOTE 1
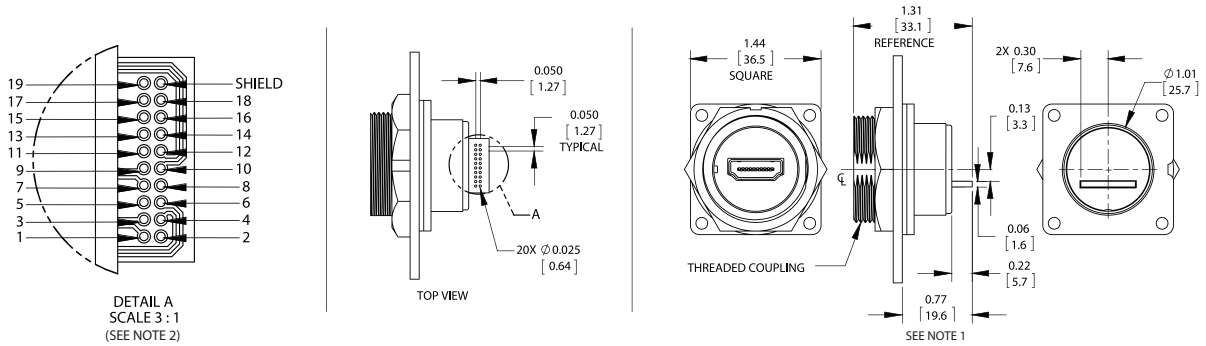
THREADED COUPLING

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

1 3 5 7 9 11 13 15 17 19
2 4 6 8 10 12 14 16 18 S

0.016 [0.40] SQUARE TYPICAL

DETAIL B
SCALE 3 : 1
(SEE NOTE 2 & 3)

0.050 [1.27] TYP
Ø0.028 X 20 [0.70]
0.050 [1.27]
RECOMMENDED PCB HOLE LAYOUT
SCALE 3:1

1.42 [36.0] REFERENCE
1.44 [36.5] SQUARE
0.22 [5.7]
Ø1.01 [25.7]
0.04 [0.9]
0.14 [3.5]
0.88 [22.5]
SEE NOTE 1
B

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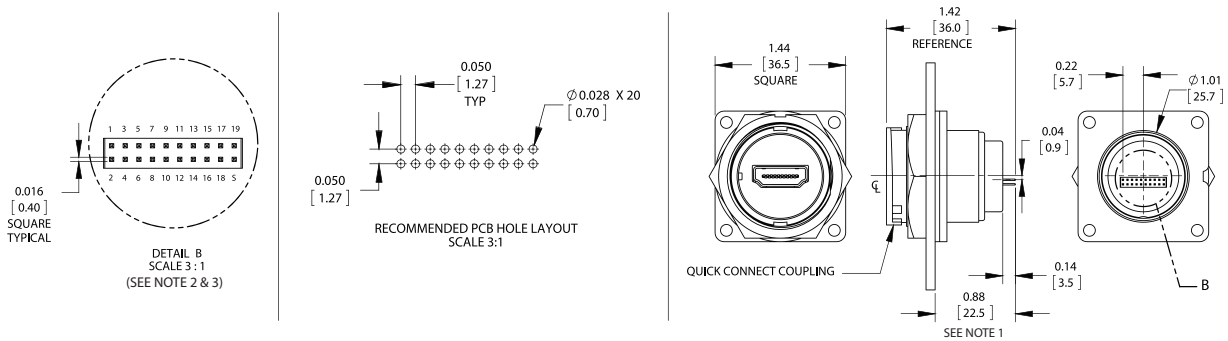
DCP-HDMIT-HD SHOWN
(HDMI CONNECTOR TO HEADER WITH THREADED COUPLING)

1.155±0.003 [29.3±0.1]
Ø1.190±0.003 [30.2±0.1]
RECOMMENDED PANEL CUT-OUT
QUICK CONNECT COUPLING
OR THREADED COUPLING

1.42 [36.0] REFERENCE
1.44 [36.5] SQUARE
0.22 [5.7]
Ø1.01 [25.7]
0.04 [0.9]
0.14 [3.5]
0.88 [22.5]
SEE NOTE 1
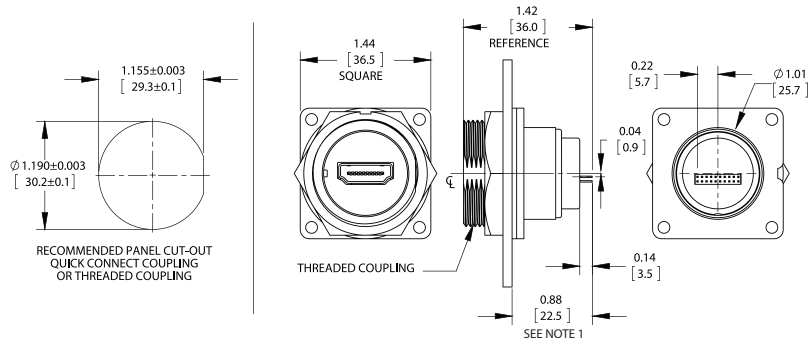
THREADED COUPLING

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.

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

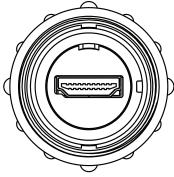|	
Flame Rating:	UL 94V-0
Recommended Panel Thickness:	1/32" - 3/16" [0.8mm to 4.8mm] - Quick Connect Coupling
	1/32" - 5/32" [0.8mm to 3.9mm] - Threaded Coupling

Recommended Cable Type

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

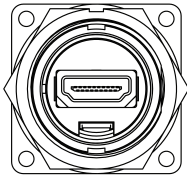## PART NUMBERS

INDUSTRIAL HDMI PLUG - FIELD INSTALLABLE
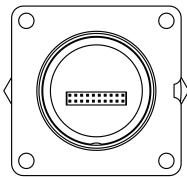
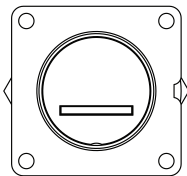| PART NUMBER	COUPLING TYPE
DCC-HDMIB-310	QUICK CONNECT
DCC-HDMIT-310	THREADED

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