

USB A & B WEATHERTIGHT CONNECTORS 1.44" [37_{MM}] OD



CABLE END-USBA OUICK CONNECT



CABLE END-USBA THREADED CONNECT MATES WITH PANEL MOUNT MATES WITH PANEL MOUNT



CABLE END-USBB OUICK CONNECT MATES WITH PANEL MOUNT



CABLE END-USBB THREADED CONNECT MATES WITH PANEL MOUNT



PANEL MOUNT - USB A OUICK CONNECT MATES WITH CABLE END



PANEL MOUNT - USB A THREADED CONNECT MATES WITH CABLE END



PANEL MOUNT - USB B OUICK CONNECT MATES WITH CABLE END



PANEL MOUNT - USB B THREADED CONNECT MATES WITH CABLE END

USB A & B WEATHERTIGHT CONNECTORS 1.44" [37mm] OD

SPECIFICATIONS

Mechanical Specifications

Life: 350 insertion/withdrawal cycles minimum

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: 1.5 A

Voltage Rating: Per USB 2.0 standard

Contact Resistance: $30 \text{ m}\Omega \text{ max}$ Insulation Resistance: $1000 \text{ M}\Omega \text{ min}$ Dielectric Withstanding Voltage: 500 V AC/one minute

Environmental Specifications

 $\begin{array}{lll} \text{Operating Temperature Rating:} & 0 \ ^\circ\text{C} \ \text{to} + 50 \ ^\circ\text{C} \ \text{(+32°F to} + 122°F) \\ \text{Storage Temperature:} & -20 \ ^\circ\text{C} \ \text{to} + 60 \ ^\circ\text{C} \ \text{(-4°F to} + 140°F) \\ \text{Moisture Resistance:} & \text{Mil-Std } 202G \ \text{Method } 106G \\ \text{Insulation Resistance:} & \text{Mil-Std } 202G \ \text{Method } 302 \\ \text{Vibration:} & \text{Mil-Std } 202G \ \text{Method } 201A \\ \text{Thermal Shock:} & \text{Mil-Std } 202G \ \text{Method } 107G \\ \end{array}$

Weathertight: IP67 & IP68, NEMA 250 (6P) (when mated)

Salt Spray: Mil-Std 202G Method 101E

Product Ratings: Tested per USB 2.0

Material Specifications

Plug Nut, Coupling Ring:ThermoplasticPlug Housing, Insert:ThermoplasticSealing Ring, O-Ring:ElastomerPanel Housing, Hex Nut:Thermoplastic

Retaining Nut: Copper Alloy, Nickel Plated

Gasket: Elastomer

USB A or B Plug:

Shell: Steel, Nickel Plated
Contacts: Copper Alloy, Gold Plated
Insulator: Thermoplastic UL94V-0, White

USB A Receptacle:

Shell: Steel, Nickel Plated
Contacts: Copper Alloy, Gold Plated
Insulator: Thermoplastic UL94V-0, White

USB B Receptacle:

Shell: Copper Alloy, Nickel Plated
Contacts: Copper Alloy, Gold Plated
Insulator: Thermoplastic UL94V-0, White

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

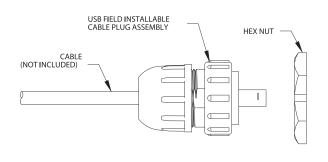
Conductor Type: Solid or Stranded Conductors

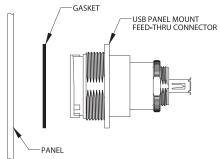
Outer Cable O.D. Range: Product 150 Series: 0.134"-0.170" [3.40mm-4.33mm]

Product 180 Series: 0.171"-0.208" [4.34mm-5.28mm]

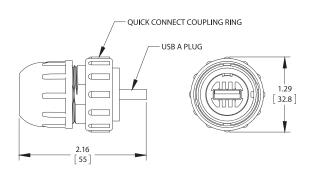
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DATA-CON-X®: USB A & B WEATHERTIGHT CONNECTORS

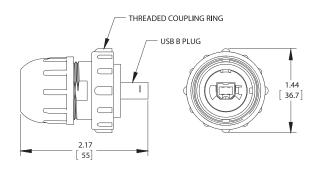




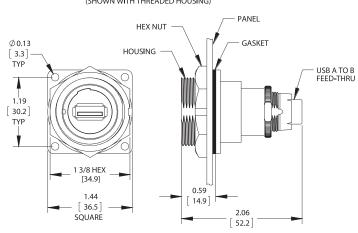
USB A FIELD INSTALLABLE CABLE PLUG (SHOWN WITH OUICK CONNECT COUPLING)



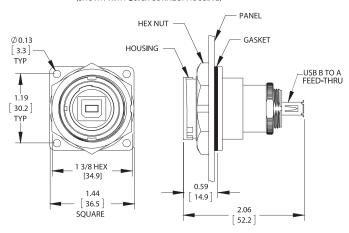
USB B FIELD INSTALLABLE CABLE PLUG (SHOWN WITH THREADED COUPLING)



USB PANEL MOUNT FEED-THRU CONNECTOR (SHOWN WITH USB A TO B FEED-THRU CONNECTOR) (SHOWN WITH THREADED HOUSING)



USB PANEL MOUNT FEED-THRU CONNECTOR (SHOWN WITH USB B TO A FEED-THRU CONNECTOR) (SHOWN WITH QUICK CONNECT HOUSING)



All dimensions are for reference only. Units shown: in[mm].

USB A & B WEATHERTIGHT CONNECTORS 1.44" [37mm] OD

PART NUMBER TO ORDER

DCC	- <u>xxxx</u>	X	- <u>xxx</u>			
USB FIELD INSTALLABLE CABLE PLUG PART NUMBER CHART						
USB FIELD INSTALLABLE CABLE PLUG ASSEMBLY						
DCC	USBA = USB "A" 2.0 USBB = USB "B" 2.0	B = QUICK CONNECT T = THREADED	150 = Ø0.134"-0.170" [3.40-4.33mm] 180 = Ø0.171"-0.208 "[4.34-5.28mm]			

DCC	- XXXX	X	- XXXX		
	USB PANEL MOUNT FEED-THRU CONNECTORS PART NUMBER CHART				
USB FIELD INSTALLABLE PANEL HOUSING ASSEMBLY	USB FIELD INSTALLABLE RECEPTACLE TYPE COUPLING RECEPTACLE TYPE PANEL HOUSING ASSEMBLY (SEALED END) TYPE (NON-SEALED END)				
1		B = QUICK CONNECT T = THREADED	USBA = USB "A" 2.0 * USBB = USB "B" 2.0 **		

*(NOT AVAILABLE WITH USBA ON SEALED END)
** (NOT AVAILABLE WITH USBB ON SEALED END)

CON-X® ELECTRICAL CURRENT RATING CHART

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
	#12	1 through 7	23.0A
	#14	1 through 3	17.0A
#12		4 through 6	12.75A
#12		7 through 9	11.0A
	#16	1 through 3	13.0A
		4 through 6	9.75A
		7	8.45A
	#16	1 through 10	13.0A
		11 and 12	7.5A
#16	#18	1 through 3	10.0A
		4 through 12	7.5A
		1 through 3	7.5A
	#18	4 through 20	5.6A
		21 through 31	2.3A
		1 through 3	7.5A
	#20	4 through 20	5.6A
		21 through 31	2.3A
#20	#20 Multi-Con-X	10 through 12	5.0A
		1 through 3	6.0A
	#22	4 through 20	2.5A
		21 through 31	2.5A
		1 through 3	4.5A
	#24	4 through 20	2.0A
		21 through 31	1.5A
#22	#22	4	5.5A
	#24	4	5.0A
	#24	5 to 6	4.0A
	#24	7	3.5A
#26	#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
	Multi Contact Turret		#12	12-14 AWG	7/32 in
359-24	Crimp Tool	357-124	#16	16-18-20 AWG	7/32 in
			#20	20-22-24 AWG	3/16 in
		357-122	#20	20-22-24 AWG	3/16 in
	Single Contact Crimp Tool	357-125	#22	22-24 AWG	5/32 in
339-21	1001	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
	Single Contact Hand Tool	356-12	#12
		356-16	#16
		356-20	#20
356-1		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
	Hand Crimp Tool		#12	12-14 AWG	7/32 in
359-24		358-112	#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