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Technical Information

Wire Gauge Conversion Chart

Conversion between American Wire Gauge (AWG), Circular Mil Area (CMA), and approximate metric millimeter squared (mm²) wire sizes.

Diameter		Area		Diameter			Area		
AWG	in.	mm	СМА	mm ^{2*}	AWG	in.	mm	СМА	mm ^{2*}
4/0 (0000)	0.46	11.68	212000	120	14	0.062	1.57	4110	2.5
3/0 (000)	0.41	10.41	168000	95	15	0.057	1.45	3260	-
2/0 (00)	0.365	9.27	133000	70	16	0.051	1.30	2580	1.5
1/0 (0)	0.325	8.26	106000	50	17	0.045	1.14	2050	1
1	0.289	7.34	83700	-	18	0.040	1.02	1620	0.75
2	0.258	6.55	66400	35	19	0.036	0.91	1290	-
3	0.229	5.82	52600	-	20	0.032	0.81	1020	0.5
4	0.204	5.18	41700	25	21	0.0285	0.72	810	-
5	0.182	4.62	33100	-	22	0.0253	0.643	642	0.34
6	0.162	4.11	26300	16	23	0.0226	0.574	509	-
7	0.144	3.66	20800	-	24	0.0201	0.511	404	0.25
8	0.128	3.25	16500	10	25	0.0179	0.45	320	-
9	0.114	2.90	13100	-	26	0.0159	0.404	254	0.14
10	0.102	2.59	10400	6	27	0.0142	0.361	202	-
11	0.091	2.31	8230	-	28	0.0126	0.320	160	0.08
12	0.081	2.06	6530	4	29	0.0113	0.29	127	-
13	0.072	1.83	5180	-	30	0.01	0.254	101	0.05

*Nearest metric wire size

Use to Convert American Wire Gauge to Diameter and Circular Mil Area.

How to Order

USB 2.0 & 3.0 Cable Assemblies

1		2	3	4		5
USB	-	3	WPA	PA	-	1M
SERIES		USB VERSION	CONNECTOR STYLE (END A)	CONNECTOR STYLE (END B)		LENGTH

SERIES

USB = USB Composite USBM = USB Metal*

USB VERSION

2 = USB 2.0 3 = USB 3.0

CONNECTOR STYLE (END A)

WPA = Molded Plug USB-A WPB = Molded Plug USB-B WJA = Molded Receptacle USB-A WJB = Molded Receptacle USB-B

CONNECTOR STYLE (END A)

WPA = Molded Plug USB-A WPB = Molded Plug USB-B PA = USB-A PB = USB-B

LENGTH**

1M = 1 meters 2M = 2 meters 3M = 3 meters

* Molded USB-B only available in composite

** Additional lengths are available upon request

USB 2.0 & 3.0 Receptacles

1		2	3
IPUSB	-	2	JAFL
SERIES		USB VERSION	STYLE

SERIES

IPUSB = USB Composite IPUSBM = USB Metal*

STYLE

JAFL = Molded Receptacle USB-A to 500 mm Flying Leads JBFL = Molded Receptacle USB-B to 500 mm Flying Leads

USB VERSION

2 = USB 2.0

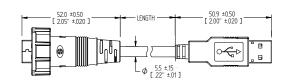
3 = USB 3.0

- JAPC = Molded Receptacle A to PC Contacts JBPC = Molded Receptacle B to PC Contacts
- AABHD = Molded Receptacle A to A Feed Thru
- BABHD = Molded Receptacle B to A Feed Thru
- ASTB = Molded Receptacle A to Terminal Block

* Molded USB-B only available in composite

USB-A Circular Plug to USB-A Plug Cable Assembly

Connector series: USB Gender: Male Part No.: IPUSB-*WPAPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





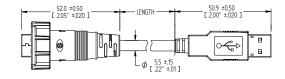
General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Plug to USB-A Plug Cable Assembly

Connector series: USB Gender: Male Part No.: IPUSBM-*WPAPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	$\leq 30 M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

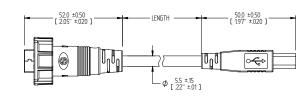
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².



USB-A Circular Plug to USB-B Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPAPB-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

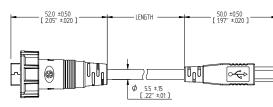
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Plug to USB-B Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSBM-*WPAPB-#M

*refers to use version (2.0 or 3.0) # refers to cable length

General Information





Connector Type:	USB-A to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (mated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

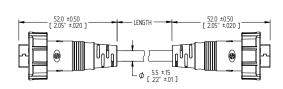
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Plug to Circular USB-A Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPAWPA-#M *refers to use version (2.0 or 3.0)

*refers to use version (2.0 or 3.0) # refers to cable length





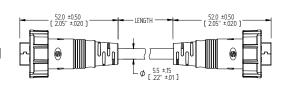
General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	\leq 30M Ω

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Plug to Metal Circular USB-A Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSBM-*WPAWPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

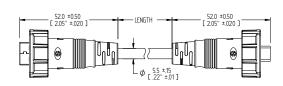
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 5 for part number breakdown.

USB-A Circular Plug to Circular USB-B Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPAWPB-#M

*refers to use version (2.0 or 3.0) # refers to cable length



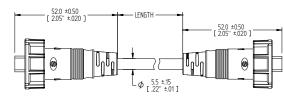


General Information

Connector Type:	USB-A to USB-B	Withstanding voltage:	AC 500V/1 minute
Temperature range:	-20°C ~ +80°C	Salt spray:	48 hr.
Terminal:	Copper alloy, gold plated	Protection class:	IP67 (unmated)
Screw nut:	Nylon + GF	Durability:	1000 times
Mating style:	Screw thread	Current rating:	1.5A
Contact resistance:	≤ 30MΩ	Voltage rating:	30V

USB-B Circular Plug to Circular USB-B Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPBWPB-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-B to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	≤ 30MΩ

AC 500V/1 minute
48 hr.
IP67 (mated)
1000 times
1.5A
30V

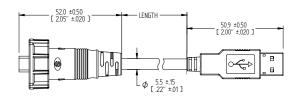
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-B Circular Plug to USB-A Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPBPA-#M *refers to use version (2.0 or 3.0)

*refers to use version (2.0 or 3.0) # refers to cable length





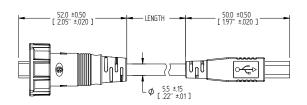
General Information

Connector Type:	USB-B to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	\leq 30M Ω

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-B Circular Plug To USB-B Plug Cable Assembly

Connector series: USB Gender: Male to Male Part No.: IPUSB-*WPBPB-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-B to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	\leq 30M Ω

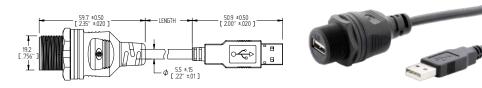
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Cable Mounted Receptacle to USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJAPA-#M *refers to use version (2.0 or 3.0) # refers to cable length



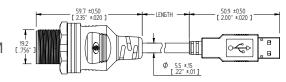
General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30 M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Cable Mounted Receptacle to USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSBM-*WJAPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

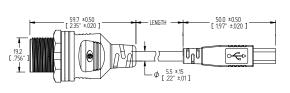
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Cable Mounted Receptacle to USB-B Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJAPB-#M *refers to use version (2.0 or 3.0)

refers to use version (2.0 or 3.0) # refers to cable length





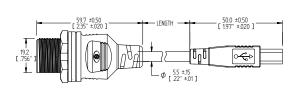
General Information

Connector Type:	USB-A to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30 M \Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Cable Mounted Receptacle to USB-B Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSBM-*WJAPB-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 MΩ

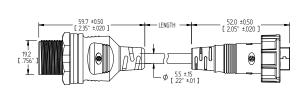
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Cable Mounted Receptacle to Circular Cable Mounted USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJAWPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





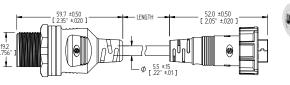
General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	\leq 30M Ω

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Cable Mounted Receptacle to Metal Circular USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSBM-*WJAWPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

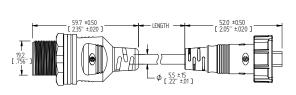
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Cable Mounted Receptacle to Circular Cable Mounted USB-B Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJAWPB-#M

*refers to use version (2.0 or 3.0) # refers to cable length





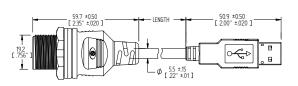
General Information

USB-A to USB-B
-20°C ~ +80°C
Copper alloy, gold plated
Nylon + GF
Screw thread
$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-B Circular Cable Mounted Receptacle to USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJBPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-B to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 MΩ

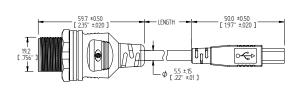
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-B Circular Cable Mounted Receptacle to USB-B Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJBPB-#M *refers to use version (2.0 or 3.0) # refers to cable length





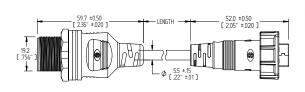
General Information

Connector Type:	USB-B to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30MΩ

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-B Circular Cable Mounted Receptacle to Circular Cable Mounted USB-A Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJBWPA-#M *refers to use version (2.0 or 3.0) # refers to cable length





General Information

Connector Type:	USB-B to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

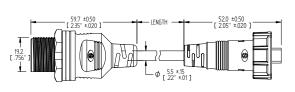
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-B Circular Cable Mounted Receptacle to Circular Cable Mounted USB-B Plug Cable Assembly

Connector series: USB Gender: Female to Male Part No.: IPUSB-*WJBWPB-#M

*refers to use version (2.0 or 3.0) # refers to cable length





General Information

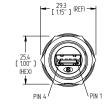
Connector Type:	USB-B to USB-B
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

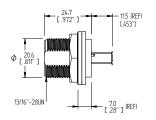
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 5 for part number breakdown.

USB-A Circular Receptacle Feed Thru

Connector series: USB Gender: Female Part No.: IPUSB-*AABHD *refers to use version (2.0 or 3.0)







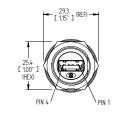
General Information

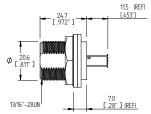
Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Receptacle Feed Thru

Connector series: USB Gender: Female Part No.: IPUSBM-*AABHD *refers to use version (2.0 or 3.0)







General Information

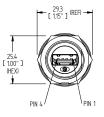
Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30 ΜΩ

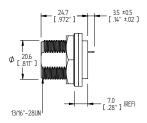
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 5 for part number breakdown.

USB-A Circular Receptacle to PCB Contacts

Connector series: USB Gender: Female Part No.: IPUSB-*JAPC *refers to use version (2.0 or 3.0)







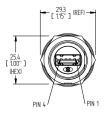
General Information

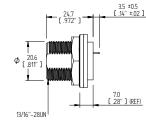
Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Receptacle to PCB Contacts

Connector series: USB Gender: Female Part No.: IPUSBM-*JAPC *refers to use version (2.0 or 3.0)







General Information

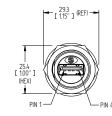
Connector Type:	USB-A to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

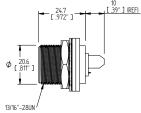
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

- Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 5 for part number breakdown.

USB-A Circular Receptacle to Screw Terminals

Connector series: USB Gender: Female Part No.: IPUSB-*ASTB *refers to use version (2.0 or 3.0)







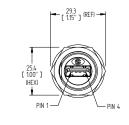
General Information

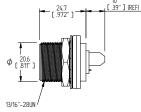
Connector Type:	USB-A type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-A Metal Circular Receptacle to Screw Terminals

Connector series: USB Gender: Female Part No.: IPUSBM-*ASTB *refers to use version (2.0 or 3.0)







General Information

Connector Type:	USB-A type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	≤ 30MΩ

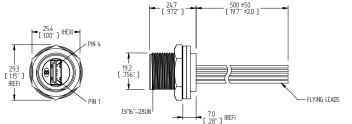
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-A Circular Receptacle to Flying Leads

Connector series: USB Gender: Female Part No.: IPUSB-*JAFL *refers to use version (2.0 or 3.0)





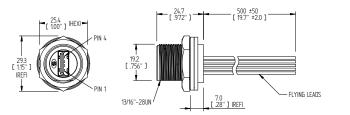
General Information

Connector Type:	USB-A type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	\leq 30M Ω

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V
Cable length:	500 mm

USB-A Metal Circular Receptacle to Flying Leads

Connector series: USB Gender: Female Part No.: IPUSBM-*JAFL *refers to use version (2.0 or 3.0)





General Information

Connector Type:	USB-A type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Zinc alloy, nickel plated
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

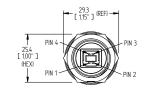
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V
Cable length:	500 mm

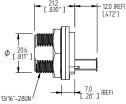
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-B Circular Receptacle Feed Thru

Connector series: USB Gender: Female Part No.: IPUSB-*BABHD *refers to use version (2.0 or 3.0)







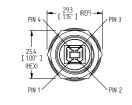
General Information

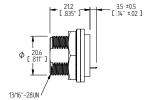
Connector Type:	USB-B to USB-A
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

USB-B Circular Receptacle to PCB Contacts

Connector series: USB Gender: Female Part No.: IPUSB-*JBPC *refers to use version (2.0 or 3.0)







General Information

Connector Type:	USB-B type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

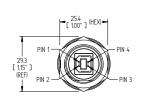
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V

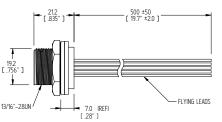
Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

USB-B Circular Receptacle to Flying Leads

Connector series: USB Gender: Female Part No.: IPUSB-*JBFL *refers to use version (2.0 or 3.0)







General Information

Connector Type:	USB-B type
Temperature range:	-20°C ~ +80°C
Terminal:	Copper alloy, gold plated
Screw nut:	Nylon + GF
Mating style:	Screw thread
Contact resistance:	$\leq 30M\Omega$

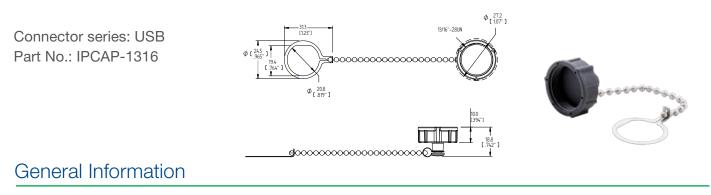
Withstanding voltage:	AC 500V/1 minute
Salt spray:	48 hr.
Protection class:	IP67 (unmated)
Durability:	1000 times
Current rating:	1.5A
Voltage rating:	30V
Cable length:	500 mm

Notes

• Please refer to Page 4 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².

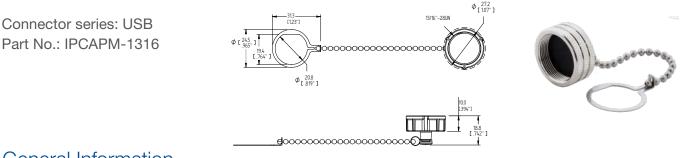


USB Receptacle Cap



Temperature range:	-40°C ~ +105°C	Protection class:	IP67
Material, cap:	Nylon, black	Material, gasket:	EPDM, black
Material, holder:	Nylon, black	Material, chain:	Stainless steel

USB Receptacle Metal Cap



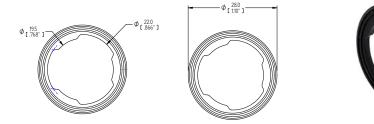
General Information

Temperature range:	-40°C ~ +105°C
Material, cap:	Copper alloy, nickel plated
Material, holder:	Nylon, black

Protection class:	IP67
Material, gasket:	EPDM, black
Material, chain:	Stainless steel

Gasket

Connector series: USB Part No.: IPGSK-1316



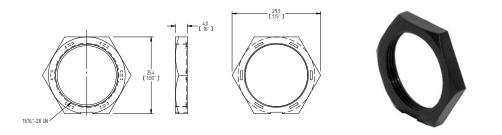
Color:

General Information

Material: Packaging: Silicone (UL94V-0) Pack of 10 Gray

Lock Nut

Connector series: USB Part No.: IPNT-1316



General Information

Material:

Nylon

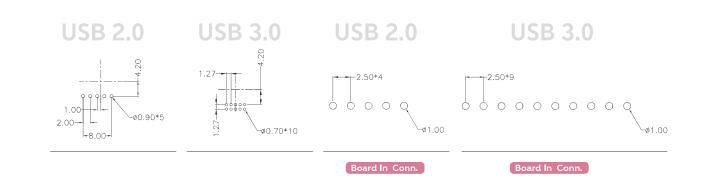
Packaging:

Pack of 10

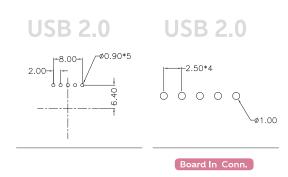
Color:	Black

USB PCB Layout

USB-A Type, PCB



USB-B Type, PCB



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IPUSBM-2WPAPA-2M	6
IPUSBM-2WPAPA-3M	6
IPUSBM-3WPAPA-1M	6
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IPUSB-2WPAPB-2M	7
IPUSB-2WPAPB-3M	7
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IPUSB-3WPAPB-2M	7
IPUSB-3WPAPB-3M	7
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IPUSB-2WPAWPA-3M	8
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IPUSB-3WPAWPA-2M	8
IPUSB-3WPAWPA-3M	8

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IPUSBM-2WPAWPA-3M	8
IPUSBM-3WPAWPA-1M	8
IPUSBM-3WPAWPA-2M	8
IPUSBM-3WPAWPA-3M	8
IPUSB-2WPAWPB-1M	9
IPUSB-2WPAWPB-2M	9
IPUSB-2WPAWPB-3M	9
IPUSB-3WPAWPB-1M	9
IPUSB-3WPAWPB-2M	9
IPUSB-3WPAWPB-3M	9
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IPUSB-2WPBWPB-2M	9
IPUSB-2WPBWPB-3M	9
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IPUSBM-2WPBPB-3M	10
IPUSBM-3WPBPB-1M	10
IPUSBM-3WPBPB-2M	10
IPUSBM-3WPBPB-3M	10

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IPUSB-2WJAPA-2M	11
IPUSB-2WJAPA-3M	11
IPUSB-3WJAPA-1M	11
IPUSB-3WJAPA-2M	11
IPUSB-3WJAPA-3M	11
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IPUSB-2WJAWPA-2M	13
IPUSB-2WJAWPA-3M	13
IPUSB-3WJAWPA-1M	13
IPUSB-3WJAWPA-2M	13
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IPUSBM-2WJAWPA-3M	13
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IPUSBM-3WJAWPA-2M	13
IPUSBM-3WJAWPA-3M	13
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IPUSBM-2WJBWPB-1M	16
IPUSBM-2WJBWPB-2M	16

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IPUSBM-3WJBWPB-1M	16
IPUSBM-3WJBWPB-2M	16
IPUSBM-3WJBWPB-3M	16
IPUSB-2AABHD	17
IPUSB-3AABHD	17
IPUSBM-2AABHD	17
IPUSBM-3AABHD	17
IPUSB-2JAPC	18
IPUSB-3JAPC	18
IPUSBM-2JAPC	18
IPUSBM-3JAPC	18
IPUSB-2ASTB	19
IPUSB-3ASTB	19
IPUSBM-2ASTB	19
IPUSBM-3ASTB	19
IPUSB-2JAFL	20
IPUSB-3JAFL	20
IPUSBM-2JAFL	20
IPUSBM-3JAFL	20
IPUSB-2BABHD	21
IPUSB-3BABHD	21
IPUSB-2JBPC	21
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