

Innovative Connector for the Future of Battery Charging - IBC 320

The patent pending Industrial Battery Connector (IBC) from Anderson Power™ is designed for industry-leading durability, reduced downtime, and easy assembly and disassembly. Featuring the first-ever patent-pending Anderson exclusive modular design with a contact cartridge, enabling quick contact repair and effortless assembly. Engineered for harsh environments, the IBC offers exceptional moisture and debris resistance with the industry-first IP68-rated accessory kit. It is available in standard plug/receptacle or panel-mount configurations and supports up to 10 signal wires.



Anderson Power Exclusives

- Innovative Modular Cartridge Design: Fewer parts to stock and repair, with easy assembly and quick wire replacement.
- Contact Temperature Sensing: Enhances safety, reliability, uptime, and performance by preventing overheating and ensuring stable power transfer.
- Industry-Exclusive IP68 Upgrade Accessory Kit: Provides superior protection against dust and water while mated, ensuring extended contact life and consistently safe, reliable performance.
- Industry-Exclusive Panel Mount Option: Offers a unique mounting solution.
- Strain Relief for Power and Auxiliary Signal Wires: Extends wire life and ensures consistent performance.

Market Leading Features

- Industry-Leading 10 Signal Configuration: Monitors more functions for faster, safer charging and increased battery and connector life.
- Latching Handle Accessory: Provides a secure mechanical connection with reduced effort in disconnections.

Your Best Connection™

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Industrial Battery Connector - IBC 320 Specifications

ELECTRICAL SPECS

Current Ratings (A)								
Wire Size	50 mm ²	70 mm ²	95 mm ²	120 mm ²	1/0	2/0	3/0	4/0
EN1175	250	-	320	-	-	-	-	-
CSA	170	220	245	280	185	210	230	270
UL	290	350	405	460	310	325	380	440

Voltage Rating (V)	
AC/DC	DWV (AC)
150	2000
600	2200
600	2200

Contact Wire Compatibility						
Contact Part No.	320-1150 320-1050	320-1170 320-1070	320-1195 320-1095	320-1104 320-1004	320160-40P 320160-40S	4803G3 4802G3
mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	1.5 - 2.5	0.25 - 0.50
AWG	1/0	2/0	3/0	4/0	16 - 14	24 - 20

Agency Approvals
UL 1977
CSA 22.2 No. 182.3-16
EN1175:2020*

MECHANICAL & MATERIAL SPECS

Mechanical Data			
	4 Aux	Air Tube	10 Aux
Average Insertion Force	23 lbs.	18 lbs.	21 lbs.
Average Retention Force	34 lbs.	27 lbs.	24 lbs.
Min Operating Temp (°C)	-20° C		
Max Operating Temp (°C)	105° C		
Degree of Protection (no kit)	IP23		
Degree of Protection (with kit)	IP68		
Flammability Rating	Material rated to UL94-V0, Design rated V0 to UL746C		
Acid Resistance*	Yes		
Latching Handle Defeat Force	45 lbs.		
Power Wire Clamp Retention Force	240 lbs.		
Signal Clamp Wire Retention Force	100 lbs.	N/A	100 lbs.
Life Cycle (No Load)*	>5000		
Voltage Keying	24/36/48/72/80/96**		
4 Auxiliary Contact Sequencing	Power > Upper Aux + Lower Aux		
Air Tube Contact Sequencing	Power > Upper Aux > Air Tube		
10 Auxiliary Contact Sequencing	Power > All Aux		

Material & Finish		
Component	Finish	Material
Housings	Black	PC/PBT
Power Clamp, Upper & Lower		
Aux Clamps, Upper & Lower (Non-Air)		
Latching & Non-Latching Handle	White	PC/PBT
Auxiliary Clamps, Air Lower		
Air Cartridge and Supplemental Holder		
Air Tubes	Purple	PC/PBT
4 Aux Cartridge and Supplemental Holder		
10 Aux Cartridge and Supplemental Holder	Orange	PC/PBT
Hardware/Screws	Passivated	Stainless Steel
Power Contacts & Auxiliary Contacts	Silver Plate	Copper
10 Aux Contacts	Gold Plate	Copper
Voltage Cover	Clear	PC
Plug O-ring	White	EPDM
Voltage O-ring	Light Blue	EPDM

* Per EN1175:2020 - Excludes 10 Aux signal contacts

** Per DIN VDE 0623-589