

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™

All Data Subject to Change Without Notice

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Industrial Battery Connector - IBC 320 Specifications

ELECTRICAL SPECS

Current Ratings (A)								Voltage Rating (V)		
Wire Size	50 mm ²	70 mm ²	95 mm ²	120 mm ²	1/0	2/0	3/0	4/0	AC/DC	DWV (AC)
EN1175	250	-	320	-	-	-	-	-	150	2000
CSA	170	220	245	280	185	210	230	270	600	2200
UL	290	350	405	460	310	325	380	440	600	2200

Contact Wire Compatibility							Agency Approvals	
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	UL 1977	
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	

MECHANICAL & MATERIAL SPECS

Mechanical Data				Material & Finish			
		4 Aux	Air Tube	10 Aux	Component	Finish	Material
Average Insertion Force		23 lbs.	18 lbs.	21 lbs.	Housings	Black	PC/PBT
Average Retention Force		34 lbs.	27 lbs.	24 lbs.	Power Clamp, Upper & Lower		
Min Operating Temp (°C)		-20° C			Aux Clamps, Upper & Lower (Non-Air)		
Max Operating Temp (°C)		105° C			Latching & Non-Latching Handle		
Degree of Protection (no kit)		IP23			Auxiliary Clamps, Air Lower	White	PC/PBT
Degree of Protection (with kit)		IP68			Air Cartridge and Supplemental Holder		
Flammability Rating		Material rated to UL94-V0, Design rated V0 to UL746C			Air Tubes		
Acid Resistance*		Yes			4 Aux Cartridge and Supplemental Holder	Purple	PC/PBT
Latching Handle Defeat Force		45 lbs.			10 Aux Cartridge and Supplemental Holder	Orange	PC/PBT
Power Wire Clamp Retention Force		240 lbs.			Hardware/Screws	Passivated	Stainless Steel
Signal Clamp Wire Retention Force	100 lbs.	N/A	100 lbs.		Power Contacts & Auxiliary Contacts	Silver Plate	Copper
Life Cycle (No Load)*	>5000				10 Aux Contacts	Gold Plate	Copper
Voltage Keying	24/36/48/72/80/96**				Voltage Cover	Clear	PC
4 Auxiliary Contact Sequencing	Power > Upper Aux + Lower Aux				Plug O-ring	White	EPDM
Air Tube Contact Sequencing	Power > Upper Aux > Air Tube				Voltage O-ring	Light Blue	EPDM
10 Auxiliary Contact Sequencing	Power > All Aux						

* Per EN1175:2020 - Excludes 10 Aux signal contacts

** Per DIN VDE 0623-589