

Datasheet for part number CA3106E16S-5PWBF80

Our Catalog Part Number: CA3106E16S-5PWB-F80

Our Global Manufacturing Part Number: 121138-0021 W

Brand: Cannon Product Category: Circular Product Line: CA Bayonet Series: CA BAYONET

Bayonet Shell Style Plug, straight Endbell Style Endbell Style Endbell With clamp and bushing Gender Pin Shell Size 18S Contact Arrangement 18S-5 Number of contacts 3 contacts size 16S Contact Type Contact Plating Hard silver Shielding no Insulator Rotation Contact Rating at +20 °C (68 °F) Size 15/15S/16/16S) Wire Cross Section AWG 18/16 In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60384-4441. Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage Air and Creepage Paths (Min) Ambient Temperature Safety Provisions IPG7 acc. to DIN 40 050 and IPG8 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles Sep. Force per Contact (Size 15/15S/16/16S) Shell Plating Contact Resistance Contact Resistance Contact Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Slandard insulator material -55°/+125°C (-67/257°F) Safety Provisions IPG7 acc. to DIN 40 050 and IPG8 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles Som min Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Contact Resistance Contact Resistance Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Copper alloy Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping (Size 15/15S/16/16S) 6.2 mm	Product Datasheet	
Shell Style		Connector with bayonet coupling
Shell Size		
Shell Size	Endbell Style	Endbell with clamp and bushing
Contact Arrangement 16S-5 Number of contacts 3 contacts size 16S Contact Type AWG Crimp Contact Plating Hard silver Shielding no Insulator Rotation 70° Contact Rating at +20 °C (68 °F) (Size 15/15S/16/16S) 22 A Contact Resistance (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VC99319, part 2, test no. 5.12 and VG98210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0.46 Nm min Contact Retention (Size 15/15S/16/16S) 35		-
Number of contacts 3 contacts size 16S Contact Type AWG Crimp Contact Plating Hard silver Shielding no Insulator Rotation 70° Contact Rating at +20 °C (68 °F) (Size 15/15S/16/16S) 22 A Contact Resistance (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 Operating Voltage In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60384-4-41. Insulator Resistance Acc. To VG96319, part 2, test no. 5.12 and VG96210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-(-7/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 15h) acc. to DIN 40 050 and IP68 (1 bar pressure for 15h) obusing salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) <t< td=""><td>Shell Size</td><td>16S</td></t<>	Shell Size	16S
Contact Type Contact Plating Hard silver Shielding Ino Insulator Rotation Contact Rating at +20 °C (68 °F) (Size 15/15S/16/16S) Contact Resistance (Size 15/15S/16/16S) Wire Cross Section AWG 18/16 In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage Air and Creepage Paths (Min) Ambient Temperature Standard insulator material -55°/+125°C (-67/25°°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Copper alloy Harnessing Info: Insulator Diameter Wire Stringing View Extreminion See assembly instruction Wire Stringing	Contact Arrangement	16S-5
Contact Plating Hard silver Shielding no Insulator Rotation 70° Contact Rating at +20 °C (68 °F) 22 A (Size 15/15S/16/16S) 22 A Contact Resistance 6 mΩ (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/155/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Coixet Retention (Size 15/15S/16/16S) 35 N Shell Plating Olive drab chromate over cadmium plating (conductive)	Number of contacts	3 contacts size 16S
Shielding no Insulator Rotation 70° Contact Rating at +20 °C (68 °F) 22 A Size 15/15S/16/16S) 22 A Contact Resistance (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/155/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/155/16/16S) 35 N Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Mate	Contact Type	AWG Crimp
Insulator Rotation 70° Contact Rating at +20 °C (68 °F) 22 A Contact Resistance (Size 15/15S/16/16S) 4Wire Cross Section AWG 18/16 Un case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-44-1. In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-44-1. Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/25°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Cepper alloy Harnessing Info: Contact Cross-Section See assembly instruction Wire Stripping	Contact Plating	Hard silver
Contact Rating at +20 °C (68 °F) 22 A (Size 15/15S/16/16S) 6 mΩ Contact Resistance (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 Operating Voltage In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364.4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) 35 N Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy	Shielding	no
(Size 15/15S/16/16S) 22 π Contact Resistance (Size 15/15S/16/16S) 6 mΩ Wire Cross Section AWG 18/16 Operating Voltage In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) 35 N Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section </td <td>Insulator Rotation</td> <td>70°</td>	Insulator Rotation	70°
Size 15/15S/16/16S Wire Cross Section		22 A
In case of voltages greater than 50V the connector must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage Air and Creepage Paths (Min) Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions Ple7a acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance Mating Cycles 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/158/16/168) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/158/16/168) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Contact Material Contact Material Contact Insulator Diameter See assembly instruction Wire Stripping		6 mΩ
Departing Voltage must be used in accordance with DIN VDE part 410, IEC 60364-4-41. Insulator Resistance Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ	Wire Cross Section	AWG 18/16
Insulator Resistance and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ Test Voltage 2000 Vrms Air and Creepage Paths (Min) 1,1 mm Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) 1,0 N Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) 35 N Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section See assembly instruction Wire Stringing Stringing	Operating Voltage	must be used in accordance with DIN VDE part 410,
Air and Creepage Paths (Min) Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping	Insulator Resistance	and VG95210, part 32, test conditions B.
Ambient Temperature Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) Salt Spray Resistance 500 hours salt spray resistant Mating Cycles 500 min Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping	Test Voltage	2000 Vrms
Safety Provisions Salt Spray Resistance Mating Cycles Sep. Force per Contact (Size 15/15S/16/16S) Gauge Coupling Torque Contact Retention (Size 15/15S/16/16S) Shell Material Shell Plating Contact Material Contact Material Contact Material Contact Material Contact Material Harnessing Info: Contact Cross-Section IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) IP67 acc. to DIN 40 050 and IP68 (1 bar pressure for 16h) South For info on Gauge please see catalog vG95234, part 1 Closing: 5,5 Nm max / Opening: 0,46 Nm min Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Copper alloy Harnessing Info: Contact Cross-Section See assembly instruction Wire Stripping	Air and Creepage Paths (Min)	1,1 mm
Salt Spray Resistance Mating Cycles Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section See assembly instruction Wire Stripping	Ambient Temperature	
Mating Cycles Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping	Safety Provisions	
Sep. Force per Contact (Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping	Salt Spray Resistance	500 hours salt spray resistant
(Size 15/15S/16/16S) Gauge For infos on Gauge please see catalog VG95234, part 1 Coupling Torque Closing: 5,5 Nm max / Opening: 0,46 Nm min 35 N Shell Material Aluminium alloy Shell Plating CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping	Mating Cycles	500 min
Coupling Torque Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Contact Material Contact Material Copper alloy Harnessing Info: Contact Cross-Section Wire Stripping Closing: 5,5 Nm max / Opening: 0,46 Nm min 35 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 36 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 36 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 37 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 36 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 37 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 36 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 37 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 38 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 39 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 39 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 30 N Closing: 5,5 Nm max / Opening: 0,46 Nm min 30 N Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention Closing: 5,5 Nm max / Opening: 0,46 Nm min Closing: 5,5 Nm max / Opening: 0,46 Nm min Closing: 5,5 Nm max / Opening: 0,46 Nm min Contact Retention CR-Elastomere Contact Material Copper alloy See assembly instruction	Sep. Force per Contact (Size 15/15S/16/16S)	1,0 N
Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Contact Material Copper alloy Harnessing Info: Contact Cross-Section Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping	Gauge	
(Size 15/15S/16/16S) Shell Material Aluminium alloy Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Contact Material Copper alloy Harnessing Info: Contact Cross-Section Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping	Coupling Torque	Closing: 5,5 Nm max / Opening: 0,46 Nm min
Shell Plating Olive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Copper alloy Harnessing Info: Contact Cross-Section Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping		35 N
Insulator and Grommet Material Contact Material Copper alloy Harnessing Info: Contact Cross-Section Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping	Shell Material	Aluminium alloy
Contact Material Copper alloy Harnessing Info: Contact Cross-Section See assembly instruction Wire Stripping	Shell Plating	
Harnessing Info: Contact Cross-Section See assembly instruction Wire Stripping	Insulator and Grommet Material	CR-Elastomere
Harnessing Info: Insulator Diameter See assembly instruction Wire Stripping	Contact Material	Copper alloy
Wire Stripping	Harnessing Info: Contact Cross-Section	See assembly instruction
Wire Stripping (Size 15/15S/16/16S) 6,2 mm	Harnessing Info: Insulator Diameter	See assembly instruction
	Wire Stripping (Size 15/15S/16/16S)	6,2 mm

Specifications and dimensions subject to change.



Datasheet for part number CA3106E16S-5PWBF80

Our Catalog Part Number: CA3106E16S-5PWB-F80		
Our Global Manufacturing Part Number: 121138-0021 W		
Brand: Cannon Product Category: Circular Product Line: CA Bayonet Series: CA BAYONET		

Product Datasheet	
	All tests in accordance with VG95319 and/or if applicable with VG95210