

## Datasheet for part number CA3106E16S-1PBF80F0

Our Catalog Part Number: CA3106E16S-1P-B-F80-F0

Our Global Manufacturing Part Number: 121138-0125

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

Sayonet   Connector with bayonet coupling   Plug, straight   Endbell Style   Endbell with clamp and bushing   Plug, straight   Endbell with clamp and bushing   Gender   Pin	Product Datasheet	
Shell Style         Plug, straight           Endbell Style         Endbell with clamp and bushing           Gender         Pin           Shell Size         16S           Contact Arrangement         16S-1           Number of contacts         7 contacts size 16S           Contact Type         AWG Crimp           Contact Plating         Hard silver           Contact Robust         no, delivery without contacts           Shielding         no           Contact Rating at +20 °C (68 °F)         22 A           (Size 15/15S/16/16S)         22 A           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 60/364-44-1.           Insulator Resistance         ACC. To VC96319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ           Test Voltage         Acc. To VC96319, 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050           Salt Spray Res		Connector with bayonet coupling
Endbell Style         Endbell with clamp and bushing           Gender         Pin           Shell Size         16S           Contact Arrangement         16S-1           Number of contacts         7 contacts size 16S           Contact Type         AWG Crimp           Contact Plating         Hard silver           Contacts included         no, delivery without contacts           Shielding         no           Contact Rating at +20 °C (68 °F)         22 A           Size 15/15/S1/61/65S)         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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050           Salt Spray Resistance         500 hours salt spray resistant           Mating Cycles         500 min           Sep. Force per Contact (Size 15/15S/16/16S) <t< td=""><td>•</td><td></td></t<>	•	
Shell Size	Endbell Style	
Contact Arrangement       16S-1         Number of contacts       7 contacts size 16S         Contact Type       AWG Crimp         Contact Plating       Hard silver         Contacts included       no, delivery without contacts         Shielding       no         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 VC995319, 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050         Salt Spray Resistance       500 hours salt spray resistant         Mating Cycles       500 min         Sep. Force per Contact (Size 15/15S/16/16S)       1,0 N         Gage       For infos on Gage please see catalog VG95234, part 1         Coupling Torque       Closing: 5,5 Nm max / Opening: 0.46 Nm min         Contact Retention (Size 15/1	•	
Number of contacts         7 contacts size 16S           Contact Type         AWG Crimp           Contact Plating         Hard silver           Contacts included         no, delivery without contacts           Shielding         no           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, IEEE 60384-4-41.           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 (-(-7/257°F)           Safety Provisions         IP67 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050           Salt Spray Resistance         500 hours salt spray resistant           Mating Cycles         500 min           Sep. Force per Contact (Size 15/15S/16/16S)         1,0 N           Sep. Force per Contact (Size 15/15S/16/16S)         35 N           Shell Plating         Olive drab chromate over cadmium plating (conductive)           I	Shell Size	16S
Contact Type         AWG Crimp           Contact Plating         Hard silver           Contacts included         no, delivery without contacts           Shielding         no           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 60384-4-41.           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 (-67/25°F)           Safety Provisions         IP67 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050           Salt Spray Resistance         500 hours salt spray resistant           Mating Cycles         500 min           Sep. Force per Contact (Size 15/15S/16/16S)         1,0 N           Gage         For infos on Gage 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 <td>Contact Arrangement</td> <td>16S-1</td>	Contact Arrangement	16S-1
Contact Plating         Hard silver           Contacts included         no, delivery without contacts           Shielding         no           Contact Rating at +20 °C (68 °F)         22 A           (Size 15/15S/16/16S)         6 mΩ           Wire Cross Section         AWG 18/16           Urice Coss 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. 512 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050           Salt Spray Resistance         500 hours salt spray resistant           Mating Cycles         500 min           Sep. Force per Contact (Size 15/15S/16/16S)         1,0 N           Gage         For infos on Gage 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 Plating         Olive drab chromate over cadmium plat	Number of contacts	7 contacts size 16S
Contacts included       no, delivery without contacts         Shielding       no         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 VG95319, part 2, test no. 5.12 and VG95210, part 32, test no. 5.12 and VG95214, part 32, test no. 5.12 and VG95214, part 32, test no. 5.12 and VG95234, part 34, part	Contact Type	AWG Crimp
Shielding       no         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 60364-441.       Acc. To V4695319, 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050         Salt Spray Resistance       500 hours salt spray resistant         Mating Cycles       500 min         Sep. Force per Contact (Size 15/15S/16/16S)       1,0 N         Gage       For infos on Gage please see catalog VG95234, part 1         Coupling Torque       Closing: 5,5 Nm max / Opening: 0,46 Nm min         Coitze 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         Harnessing Info: Insulator Diameter       See assembly instruction </td <td>Contact Plating</td> <td>Hard silver</td>	Contact Plating	Hard silver
Contact Rating at +20 °C (68 °F)       22 A         (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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050         Salt Spray Resistance       500 hours salt spray resistant         Mating Cycles       500 min         Sep. Force per Contact (Size 15/15S/16/16S)       1,0 N         Gage       For infos on Gage 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         Harnessing Info: Insulator Diameter       See assembly instructi	Contacts included	no, delivery without contacts
(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 22, 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050         Salt Spray Resistance       500 hours salt spray resistant         Mating Cycles       500 min         Sep. Force per Contact (Size 15/15S/16/16S)       1,0 N         Gage       For infos on Gage 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-Secti	Shielding	no
Size 15/15S/16/16S)   Sim2		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  IP67 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050  Salt Spray Resistance  Mating Cycles  500 hours salt spray resistant  Mating Cycles  500 min  Sep. Force per Contact (Size 15/15S/16/16S)  Gage  For infos on Gage 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  Contact Material  Copper alloy  Harnessing Info: Contact Cross-Section  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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050         Salt Spray Resistance       500 hours salt spray resistant         Mating Cycles       500 min         Sep. Force per Contact (Size 15/15S/16/16S)       1,0 N         Gage       For infos on Gage 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 Stripping       Stripping	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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050  Salt Spray Resistance  500 hours salt spray resistant  Mating Cycles  500 min  Sep. Force per Contact (Size 15/158/16/16S)  Gage  For infos on Gage please see catalog VG95234, part 1  Coupling Torque  Closing: 5,5 Nm max / Opening: 0,46 Nm min  Contact Retention (Size 15/158/16/16S)  Shell Material  Aluminium alloy  Shell Plating  Olive drab chromate over cadmium plating (conductive)  Insulator and Grommet 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 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050  Salt Spray Resistance  500 hours salt spray resistant  Mating Cycles  500 min  Sep. Force per Contact (Size 15/15S/16/16S)  Gage  For infos on Gage 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	Test Voltage	2000 Vrms
Ambient Temperature  (-67/257°F)  Safety Provisions  IP67 and IP68 (1 bar pressure after 12 hrs) acc. to DIN 40 050  Salt Spray Resistance  500 hours salt spray resistant  Mating Cycles  500 min  Sep. Force per Contact (Size 15/15S/16/16S)  Gage  For infos on Gage 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  See assembly instruction  Wire Stripping	Air and Creepage Paths (Min)	1,1 mm
Salt Spray Resistance  Sol hours salt spray resistant  Mating Cycles  Sep. Force per Contact (Size 15/15S/16/16S)  Gage  For infos on Gage 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)  Gage  For infos on Gage 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	Safety Provisions	
Sep. Force per Contact (Size 15/15S/16/16S)  Gage  For infos on Gage 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)  Gage  For infos on Gage 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  Olive drab chromate over cadmium plating (conductive)  Insulator and Grommet Material  Car-Elastomere  Contact Material  Copper alloy  Harnessing Info: Contact Cross-Section  Harnessing Info: Insulator Diameter  See assembly instruction  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  35 N Closing: 5,5 Nm max / Opening: 0,46 Nm min  Closing: 6,5 Nm max / Opening: 0,46 Nm min  35 N Closing: 5,5 Nm max / Opening: 0,46 Nm min  26 N Closing: 5,5 Nm max / Opening: 0,46 Nm min  27 Number of Closing: 5,5 Nm max / Opening: 0,46 Nm min  35 N Closing: 5,5 Nm max / Opening: 0,46 Nm min	Sep. Force per Contact (Size 15/15S/16/16S)	1,0 N
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  Harnessing Info: Insulator Diameter  See assembly instruction  Wire Stripping	Gage	
(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  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 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-1PBF80F0

Our Catalog Part Number: CA3106E16S-1P-B-F80-F0		
Our Global Manufacturing Part Number: 121138-0125		
Brand: Cannon Product Category: Circular Product Line: CA Bayonet Series: CA BAYONET		

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