

## Datasheet for part number CA3100E28-21PWBF80

Our Catalog Part Number: CA3100E28-21PWB-F80

Our Global Manufacturing Part Number: 121227-0101 W

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

Bayonet Shell Style Endbell Style Endbell Style Endbell Style Endbell with clamp and bushing Gender Pin Shell Size 28 Contact Arrangement Number of contacts 37 contacts size 16 Contact Type AWG Crimp 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 60384-44-41. 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 DIN 40 050 Salt Spray Resistance Son hours salt spray resistant Mating Cycles Sege Force per Contact (Size 15/15S)/16/16S) Shell Material 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 Standard insulator material -55°/+125°C (-67/257°F) Safety Provisions DIN 40 050 Salt Spray Resistance DIN 40 050 Salt Spray Resistance For infos on Gage please see catalog VG95234, part 1 Coupling Torque Closing: 17 Nm max / Opening: 0,92 Nm min Contact Retention (Size 15/15S/16/16S) Shell Material Aluminium alloy Clive drab chromate over cadmium plating (conductive) Insulator and Grommet Material CR-Elastomere Contact Material Aluminium alloy Clive drab chromate over cadmium plating (conductive) Insulator and Grommet Material Copper alloy Harnessing Info: Insulator Diameter See assembly instruction  Wire Stripping (Size 15/15S/16S/16S) 6,2 mm	Product Datasheet	
Shell Style         Wall mounting receptacle           Endbell Style         Endbell with clamp and bushing           Gender         Pin           Shell Size         28           Contact Arrangement         28-21           Number of contacts         37 contacts size 16           Contact Plating         Hard silver           Shielding         no           Insulator Rotation         80°           Contact Rating at +20 °C (68 °F)         22 A           (Size 15/15S/16/165)         22 A           Contact Resistance         6 mΩ           (Size 15/15S/16/165)         AWG 18/16           Mire 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 60364-44-1.           Insulator Resistance         ACC 10 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         (Siza 15/15S/16/16)           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		Connector with bayonet coupling
Endbell Style         Endbell with clamp and bushing           Gender         Pin           Shell Size         28           Contact Arrangement         28-21           Number of contacts         37 contacts size 16           Contact Type         AWG Cimp           Contact Plating         Hard silver           Shielding         no           Insulator Rotation         80°           Contact Rating at +20 °C (68 °F)         22 A           (Size 15/15/S1/61/65)         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 (-67/25°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      <		, , ,
Shell Size	Endbell Style	<u> </u>
Contact Arrangement       28-21         Number of contacts       37 contacts size 16         Contact Type       AWG Crimp         Contact Plating       Hard silver         Shielding       no         Insulator Rotation       80°         Contact Resistance (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: 17 Nm max / Opening: 0.92 Nm min         Contact Retention (Size 15/15S/16/16S)       35 N		·
Number of contacts     37 contacts size 16       Contact Type     AWG Crimp       Contact Plating     Hard silver       Shielding     no       Insulator Rotation     80°       Contact Rating at +20 °C (68 °F)     22 A       (Size 15/155/16/16S)     22 A       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 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: 17 Nm max / Opening: 0,92 Nm min       Contact Retention (Size 15/15S/16/16S)     35 N       Shell Plating     Olive drab chromate over cadmium plating (conductive)       Insulator and Grommet Material     CR-Elastomere       Contact Material	Shell Size	28
Contact Type     AWG Crimp       Contact Plating     Hard silver       Shielding     no       Insulator Rotation     80°       Contact Rating at +20 °C (68 °F)     22 A       (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 (-67/25°°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: 17 Nm max / Opening: 0,92 Nm min       Contact Retention (Size 15/15S/16/16S)     35 N       Shell Plating     Olive drab chromate over cadmium plating (conductive)       Insulator and Grommet Material     CR-Elastomere       Contact Material     Copper alloy       Harnessing Info: Insulator Diameter     See assembly i	Contact Arrangement	28-21
Contact Plating   Hard silver   Shielding   no   Insulator Rotation   80°   Contact Rating at +20 °C (68 °F)   22 A   Contact Rating at +20 °C (68 °F)   22 A   Contact Resistance   (Size 15/155/16/16S)   6 mΩ   (Size 15/155/16/16S)   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.   Acc. To VG95319, part 2, test no. 5.12 and VG95210, part 32, test conditions B, standard insulator material > 1000 MΩ   Early Voltage   2000 Vrms   Air and Creepage Paths (Min)   1,1 mm   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 15/155/16/16S)   1,0 N   Gage   For infos on Gage please see catalog VG95234, part 1   Coupling Torque   Closing: 17 Nm max / Opening: 0,92 Nm min   Contact Retention (Size 15/155/16/16S)   35 N   Shell Material   Aluminium alloy   Insulator and Grommet Material   Ce-Elastomere   Contact Material   Ce-Elastomere   Ce-Elast	Number of contacts	37 contacts size 16
Shielding	Contact Type	AWG Crimp
Insulator Rotation	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 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: 17 Nm max / Opening: 0,92 Nm min         Contact Retention (Size 15/15S/16/16S)       35 N         Shell Plating       Olive drab chromate over cadmium plating (conductive)         Insulator and Grommet Material       CR-Elastomere         Contact Material       Copper alloy         Harnessing Info: Insulator Diam	Shielding	no
Contact Resistance (Size 15/15S/16/16S)   E2 K	Insulator Rotation	80°
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  Plefa 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: 17 Nm max / Opening: 0,92 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  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 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: 17 Nm max / Opening: 0,92 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       See assembly instruction	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 15/15S/16/16S)  Gage  For infos on Gage please see catalog VG95234, part 1  Coupling Torque  Closing: 17 Nm max / Opening: 0,92 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 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: 17 Nm max / Opening: 0,92 Nm min  Contact Retention (Size 15/15S/16/16S)  Shell Material  Aluminium alloy  Shell Plating  Insulator and Grommet Material  Copper alloy  Harnessing Info: Contact Cross-Section  Wire Stripping	Test Voltage	2000 Vrms
Safety Provisions  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: 17 Nm max / Opening: 0,92 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	Air and Creepage Paths (Min)	1,1 mm
Salt Spray Resistance  Solo 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: 17 Nm max / Opening: 0,92 Nm min  Contact Retention (Size 15/15S/16/16S)  Shell Material  Shell Plating  Insulator and Grommet Material  Centact Material  Contact Material  Contact Material  Harnessing Info: Contact Cross-Section  DIN 40 050  500 hours salt spray resistant  1,0 N  Closing: 17 Nm max / Opening: 0,92 Nm min  Closing: 17 Nm max / Opening: 0,92 Nm min  Olive drab chromate over cadmium plating (conductive)  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: 17 Nm max / Opening: 0,92 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: 17 Nm max / Opening: 0,92 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: 17 Nm max / Opening: 0,92 Nm min  35 N  Shell Material  Aluminium alloy  Shell Plating  CR-Elastomere  Contact Material  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 Shell Plating Insulator and Grommet Material Contact Cross-Section Contact Material Copper alloy  See assembly instruction Wire Stripping  Closing: 17 Nm max / Opening: 0,92 Nm min  35 N  Closing: 17 Nm max / Opening: 0,92 Nm min  35 N  Closing: 17 Nm max / Opening: 0,92 Nm min  35 N  Closing: 17 Nm max / Opening: 0,92 Nm min  35 N  Charact Material Contact Cross-Section Conductive CR-Elastomere Contact Material Copper alloy See assembly instruction  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	Gage	
(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: 17 Nm max / Opening: 0,92 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.



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Our Catalog Part Number: CA3100E28-21PWB-F80		
Our Global Manufacturing Part Number: 121227-0101 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