



## Datasheet for part number CA3102E18-20PBF80A176

|                                                   |                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------|
| Our Catalog Part Number: CA3102E18-20P-B-F80-A176 |                                                                        |
| Brand: Cannon                                     | Product Category: Circular Product Line: CA Bayonet Series: CA BAYONET |

| Product Datasheet                                        |                                                                                                                               |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Bayonet                                                  | Connector with bayonet coupling                                                                                               |
| Shell Style                                              | Box mounting receptacle                                                                                                       |
| Gender                                                   | Pin                                                                                                                           |
| Shell Size                                               | 18                                                                                                                            |
| Contact Arrangement                                      | 18-20                                                                                                                         |
| Number of contacts                                       | 5 contacts size 16                                                                                                            |
| Contact Type                                             | AWG Crimp                                                                                                                     |
| Contact Plating                                          | Gold 0,5 $\mu$                                                                                                                |
| Shielding                                                | no                                                                                                                            |
| Contact Rating at +20 °C (68 °F)<br>(Size 15/15S/16/16S) | 22 A                                                                                                                          |
| Contact Resistance<br>(Size 15/15S/16/16S)               | 6 m $\Omega$                                                                                                                  |
| 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 M $\Omega$ |
| 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<br>(Size 15/15S/16/16S)           | 1,0 N                                                                                                                         |
| Gage                                                     | For infos on Gage please see catalog VG95234, part 1                                                                          |
| Coupling Torque                                          | Closing: 8 Nm max / Opening: 0,58 Nm min                                                                                      |
| Contact Retention<br>(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                   | <a href="#">See assembly instruction</a>                                                                                      |
| Harnessing Info: Insulator Diameter                      | <a href="#">See assembly instruction</a>                                                                                      |
| Wire Stripping<br>(Size 15/15S/16/16S)                   | 6,2 mm                                                                                                                        |
| General Info                                             | <i>All tests in accordance with VG95319 and/or if applicable with VG95210</i>                                                 |