



## Datasheet for part number MS3100F20-23SZ

|                                        |                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------|
| Our Catalog Part Number: MS3100F2023SZ |                                                                                   |
| Brand: Cannon                          | Product Category: Circular Product Line: MIL-DTL 5015 Series I Series: MIL-C-5015 |

| Product Datasheet                                   |                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Thread                                              | Connector with threaded coupling                                                                                      |
| Shell Style                                         | Wall mounting receptacle                                                                                              |
| Endbell Style                                       | Endbell with clamp and bushing                                                                                        |
| Gender                                              | Socket                                                                                                                |
| Shell Size                                          | 20                                                                                                                    |
| Contact Arrangement                                 | 20-23                                                                                                                 |
| Number of contacts                                  | 2 contacts size 8                                                                                                     |
| Contact Type                                        | Solder Cup                                                                                                            |
| Contact Plating                                     | Hard silver                                                                                                           |
| Contacts installed                                  | yes                                                                                                                   |
| Shielding                                           | no                                                                                                                    |
| Insulator Rotation                                  | 325°                                                                                                                  |
| Contact Rating at +20 °C (68 °F)<br>(Size 60/100/8) | 74 A                                                                                                                  |
| Contact Resistance (Size 60/100/8)                  | 1 mΩ                                                                                                                  |
| 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                                        | 1600 Vrms                                                                                                             |
| Air and Creepage Paths (Min)                        | 1,1 mm                                                                                                                |
| Ambient Temperature                                 | Standard insulator material -55°/+125°C (-67/257°F)                                                                   |
| Safety Provisions                                   | IP65 acc. to DIN 40 050                                                                                               |
| Salt Spray Resistance                               | 500 hours salt spray resistant                                                                                        |
| Mating Cycles                                       | 500 min                                                                                                               |
| Sep. Force per Contact (Size 60/100/8)              | 3,0 N                                                                                                                 |
| Gage                                                | For infos on Gage please see catalog VG95234, part 1                                                                  |
| Coupling Torque                                     | Closing: 9 Nm max / Opening: 0,7 Nm min                                                                               |
| Contact Retention (Size 60/100/8)                   | 80 N                                                                                                                  |
| Shell Material                                      | Aluminium alloy                                                                                                       |
| Shell Plating                                       | Olive drab chromate coating over cadmium plating                                                                      |
| Insulator and Gromet Material                       | Neoprene                                                                                                              |
| 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 (Size 60/100/8)                      | 11,8 mm                                                                                                               |
| General Info                                        | <i>All tests in accordance with VG95319 and/or if applicable with VG95210</i>                                         |