



## Datasheet for part number MS3100F20-22SW

|                                         |                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|
| Our Catalog Part Number: MS3100F20-22SW |                                                                                   |
| 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                                      | 20-22                                                                                                                 |
| Number of contacts                                       | 3 contacts size 8, 3 contacts size 16                                                                                 |
| Contact Type                                             | Solder Cup                                                                                                            |
| Contact Plating                                          | Hard silver                                                                                                           |
| Contacts installed                                       | yes                                                                                                                   |
| Shielding                                                | no                                                                                                                    |
| Insulator Rotation                                       | 80°                                                                                                                   |
| Contact Rating at +20 °C (68 °F)<br>(Size 15/15S/16/16S) | 22 A                                                                                                                  |
| Contact Rating at +20 °C (68 °F)<br>(Size 60/100/8)      | 74 A                                                                                                                  |
| Contact Resistance<br>(Size 15/15S/16/16S)               | 6 mΩ                                                                                                                  |
| 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<br>(Size 15/15S/16/16S)           | 1,0 N                                                                                                                 |
| 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<br>(Size 15/15S/16/16S)                | 35 N                                                                                                                  |
| 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>                                                                              |

Specifications and dimensions subject to change.



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|                                        |                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------|
| Product Datasheet                      |                                                                               |
| Wire Stripping<br>(Size 15/15S/16/16S) | 6,2 mm                                                                        |
| 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> |
| SC_P_Code                              | CA                                                                            |