



## Datasheet for part number MS3100E20-3S

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| Our Catalog Part Number: MS3100E20-3S |                                                                                   |
| 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                              | 20-3                                                                                                                  |
| Number of contacts                               | 3 contacts size 12                                                                                                    |
| Contact Type                                     | Solder Cup                                                                                                            |
| Contact Plating                                  | Hard silver                                                                                                           |
| Contacts installed                               | yes                                                                                                                   |
| Shielding                                        | no                                                                                                                    |
| Contact Rating at +20 °C (68 °F)<br>(Size 25/12) | 41 A                                                                                                                  |
| Contact Resistance (Size 25/12)                  | 3 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                                     | 2500 Vrms                                                                                                             |
| Air and Creepage Paths (Min)                     | 2,8 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 25/12)              | 1,5 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 25/12)                   | 55 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 25/12)                      | 6,2 mm                                                                                                                |
| General Info                                     | <i>All tests in accordance with VG95319 and/or if applicable with VG95210</i>                                         |
| SC_P_Code                                        | CA                                                                                                                    |