

COAXIAL CONNECTOR, MCX, 50 Ohm, Straight cable plug (male)

11\_MCX-50-2-16/111\_N

Properties

- Small size
- Easy to connect and disconnect
- Wide range of board connectors and cable connectors available



| Product configuration |        |                          |
|-----------------------|--------|--------------------------|
| Interface type        | Gender | Standard                 |
| MCX                   | plug   | IEC 60169-36_CEECC 22220 |

| Interface and material data |                        |                                            |
|-----------------------------|------------------------|--------------------------------------------|
| Piece parts                 | Material               | Plating                                    |
| Centre contact              | Brass                  | Gold Plating (Nickel underplated)          |
| Outer conductor             | Copper Beryllium Alloy | Gold Plating (Nickel underplated)          |
| Body                        | Brass                  | Gold Plating (Nickel underplated)          |
| Insulator                   | PFA / PTFE             |                                            |
| Crimp ferrule               | Copper                 | Gold Plating (without Nickel underplating) |

| Electrical data     |       |
|---------------------|-------|
| Impedance           | 50 Ω  |
| Interface frequency | 6 GHz |

| Electrical Data (frequency related) |             |       |
|-------------------------------------|-------------|-------|
| Frequency range                     | Return loss | VSWR  |
| 0 GHz ... 1 GHz                     | 39 dB       | 1.023 |
| 1 GHz ... 2.5 GHz                   | 31 dB       | 1.06  |
| 2 GHz ... 6 GHz                     | 30 dB       | 1.07  |

| Mechanical data            |           |
|----------------------------|-----------|
| Weight                     | 0.0009 kg |
| Mating cycles              | 500       |
| Cable entry centre contact | crimped   |
| Cable entry outer contact  | crimped   |

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| Engagement / Disengagement force |            |               |
|----------------------------------|------------|---------------|
|                                  | Engagement | Disengagement |
| Interface force min              |            | 8 N           |
| Interface force max              | 25 N       | 20 N          |

| Environmental data    |                   |
|-----------------------|-------------------|
| Operation temperature | -55 °C ... 155 °C |

| Material compliance |                                   |                                 |                      |
|---------------------|-----------------------------------|---------------------------------|----------------------|
| Item number         | Directive / Regulation            | Rating                          | Exemptions / Details |
| 84022831            | RoHS 2011/65/EU and (EU) 2015/863 | Compliant with exemption        | 6c                   |
|                     | REACH 1907/2006 Article 33 SVHC   | Contains one or more SVHC >0,1% | CAS: 7439-92-1 Lead  |
| 22658275            | RoHS 2011/65/EU and (EU) 2015/863 | Compliant with exemption        | 6c                   |
|                     | REACH 1907/2006 Article 33 SVHC   | Contains one or more SVHC >0,1% | CAS: 7439-92-1 Lead  |

| Ordering Information Table |                       |                |
|----------------------------|-----------------------|----------------|
| Item number                | Item description      | Packaging type |
| 84022831                   | 11_MCX-50-2-16/111_NE | Single         |
| 22658275                   | 11_MCX-50-2-16/111_NH | Bulk 100 pcs   |

| Suitable cables   |                    |
|-------------------|--------------------|
| Cable group       | U2 - 2 mm / 50 Ohm |
| Suitable cables   | RG_316_/U          |
|                   | RG_188_A/U         |
| Additional cables | RG_174_/U          |

| Additional Information |    |
|------------------------|----|
| Only as assembly       | No |

| Suitable tools |                  |               |
|----------------|------------------|---------------|
| Item number    | Item description | Type of tool  |
| 22543181       | 76_Z-0-2-1       | Crimping dies |

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DOCUMENT PIM-P3628 / Date of publication: 12.07.2025 / uncontrolled copy