

COAXIAL CONNECTOR, TNC, 50 Ohm, Straight cable plug (male)  
11\_TNC-50-4-77/133\_N

Properties

- Threaded coupling mechanism improves control over the interface dimensions
- Used under a higher environmental load than BNC
- Available for 50 ohm and 75 ohm applications
- Applicable in frequencies up to 11 GHz



| Product configuration |        |                                          |
|-----------------------|--------|------------------------------------------|
| Interface type        | Gender | Standard                                 |
| TNC                   | plug   | IEC 60169-17_MIL-STD-348A/313_CECC 22200 |

| Interface and material data |                                  |                       |
|-----------------------------|----------------------------------|-----------------------|
| Piece parts                 | Material                         | Plating               |
| Centre contact              | Bronze                           | SUCOPRO Plating       |
| Outer conductor             | Brass                            | SUCOPLATE (R) Plating |
| Body                        | Brass                            | SUCOPLATE (R) Plating |
| Other body part             | Brass                            | SUCOPLATE (R) Plating |
| Insulator                   | PTFE (Polytetrafluoroethylene)   |                       |
| Coupling nut                | Brass                            | SUCOPLATE (R) Plating |
| Gasket                      | FVMQ (Fluoro silicone elastomer) |                       |
| Crimp ferrule               | Copper                           | SUCOPLATE (R) Plating |

| Electrical data     |        |
|---------------------|--------|
| Impedance           | 50 Ω   |
| Interface frequency | 11 GHz |

| Electrical Data (frequency related) |             |       |
|-------------------------------------|-------------|-------|
| Frequency range                     | Return loss | VSWR  |
| 0.1 GHz ... 2 GHz                   | 30 dB       | 1.065 |
| 2 GHz ... 4 GHz                     | 23.6 dB     | 1.141 |
| 4 GHz ... 6 GHz                     | 22.8 dB     | 1.156 |

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| Mechanical data            |         |
|----------------------------|---------|
| Mating cycles              | 500     |
| Cable entry centre contact | plugged |
| Cable entry outer contact  | crimped |

| Environmental data             |                   |
|--------------------------------|-------------------|
| Operation temperature          | -50 °C ... 165 °C |
| Ingress protection (IP Rating) | Mated / IP67      |

| Material compliance |                                   |                                 |                      |
|---------------------|-----------------------------------|---------------------------------|----------------------|
| Item number         | Directive / Regulation            | Rating                          | Exemptions / Details |
| 85010169            | 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 |
| 85010169                   | 11_TNC-50-4-77/133_NE | Single         |

| Suitable cables |                     |
|-----------------|---------------------|
| Cable group     | X28 - 4 mm / 50 Ohm |
| Suitable cables | SPUMA_240           |

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

| Suitable tools |                  |               |
|----------------|------------------|---------------|
| Item number    | Item description | Type of tool  |
| 22544758       | 76_Z-0-4-51      | Crimping dies |
| 22543189       | 76_Z-0-4-1       | Crimping dies |
| 22643028       | 74_Z-0-0-164     | Trimming tool |

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