

**COAXIAL CONNECTOR, N, 50 Ohm, Right angle cable plug (male)**

16\_N-50-7-53/133\_N

**Properties**

- Screwed coupling mechanism for sturdy and reliable connection
- IP rating (interface, mated) IP67
- Interface dimensions according IEC/MIL

**Product configuration**

|                |        |                                          |
|----------------|--------|------------------------------------------|
| Interface type | Gender | Standard                                 |
| N              | plug   | IEC 61169-16_MIL-STD-348A/304_CECC 22210 |

**Interface and material data**

|                 |                                |                       |
|-----------------|--------------------------------|-----------------------|
| Piece parts     | Material                       | Plating               |
| Centre contact  | Brass                          | SUCOPRO Plating       |
| Outer conductor | Brass                          | SUCOPLATE (R) Plating |
| Body            | Brass                          | SUCOPLATE (R) Plating |
| Insulator       | PTFE (Polytetrafluoroethylene) |                       |
| Coupling nut    | Brass                          | SUCOPLATE (R) Plating |
| Gasket          | VMQ (Silicone rubber)          |                       |
| Crimp ferrule   | Brass                          | SUCOPLATE (R) Plating |

**Electrical data**

|                     |             |
|---------------------|-------------|
| Impedance           | 50 $\Omega$ |
| Interface frequency | 11 GHz      |

**Electrical Data (frequency related)**

| Frequency range   | Return loss | VSWR  |
|-------------------|-------------|-------|
| 0.1 GHz ... 2 GHz | 29 dB       | 1.074 |
| 2 GHz ... 4 GHz   | 25.4 dB     | 1.114 |
| 4 GHz ... 6 GHz   | 20 dB       | 1.222 |

**Mechanical data**

|                            |             |
|----------------------------|-------------|
| Weight                     | 0.039347 kg |
| Mating cycles              | 500         |
| Cable entry centre contact | soldered    |

**COAXIAL CONNECTOR, N, 50 Ohm, Right angle cable plug (male)**

16\_N-50-7-53/133\_N

| Mechanical data           |         |
|---------------------------|---------|
| Cable entry outer contact | crimped |

| Environmental data             |                   |
|--------------------------------|-------------------|
| Operation temperature          | -65 °C ... 165 °C |
| Ingress protection (IP Rating) | Mated / IP67      |

| Material compliance |                                   |                                 |                      |
|---------------------|-----------------------------------|---------------------------------|----------------------|
| Item number         | Directive / Regulation            | Rating                          | Exemptions / Details |
| 85014128            | 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 |
| 85014128                   | 16_N-50-7-53/133_NE | Single         |

| Suitable cables |                                            |
|-----------------|--------------------------------------------|
| Cable group     | X32 - 7 mm / 50 Ohm<br>U30 - 7 mm / 50 Ohm |
| Suitable cables | SPUMA_400                                  |

| Additional Information |     |
|------------------------|-----|
| Only as assembly       | Yes |

| Suitable tools |                  |               |
|----------------|------------------|---------------|
| Item number    | Item description | Type of tool  |
| 22544524       | 76_Z-0-7-14      | Crimping dies |
| 22643028       | 74_Z-0-0-164     | Trimming tool |

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.  
DOCUMENT PIM-P3069 / Date of publication: 11.07.2025 / uncontrolled copy