# SIEMENS

**Data sheet** **6XV1875-5AH50**

| product type designation | **antenna connection cable N-Connect plug/plug** |
|---|---|
| product description | Connecting cable for SIMATIC NET antennas, preassembled |
|  | N-Connect male/male flexible connection cable pre-assembled; length 5 m flexible cable, for example, for the connection to antennas, suitable for IWLAN and mobile radio. |

| suitability for use | Flexible connecting cable for connecting an antenna or RCoax cable to a SCALANCE M/W |
|---|---|
| wire length | 5 m |
| **electrical data** | |
| number of electrical connections | 2 |
| type of electrical connection | N-Connect/N-Connect male/male |
| transmission frequency | 0 ... 6000 MHz |
| attenuation factor per length | |
| ● at 2.4 GHz / typical | 0.53 dB/m |
| ● at 5.2 GHz / typical | 0.83 dB/m |
| ● at 5.85 GHz / typical | 0.89 dB/m |
| return loss | |
| ● minimum | 23 dB |
| impedance | |
| ● rated value | 50 Ω |
| capacity per length / at 1 kHz | 82 pF/m |
| relative speed | 82 % |
| **mechanical data** | |
| design of the shield | Braided shield made of tin-plated copper wires |
| outer diameter | |
| ● of inner conductor | 1.4 mm |
| ● of dielectric | 3.8 mm |
| ● of cable sheath | 6.3 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm |
| thickness / of cable sheath | 0.76 mm |
| material | |
| ● of inner conductor | Cu |
| ● of dielectric | polyethylene foam |
| ● of cable sheath | FRNC |
| color | |
| ● of cable sheath | pastel turquoise |
| bending radius | |
| ● with single bend / minimum permissible | 32 mm |
| ● with multiple bends / minimum permissible | 45 mm |
| tensile load / maximum | 80 N |
| weight per length | 75 kg/km |
| **ambient conditions** | |
| ambient temperature | |

| | |
|---|---|
| ● during operation | -40 ... +80 °C |
| ● during storage | -40 ... +80 °C |
| ● during transport | -40 ... +80 °C |
| ● during installation | -25 ... +80 °C |
| chemical resistance | |
| ● to mineral oil | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| protection class IP | IP68; when plugged in |

**product features, product functions, product components / general**

| | |
|---|---|
| product feature | |
| ● halogen-free | Yes |
| ● silicon-free | Yes |

**standards, specifications, approvals**

| | |
|---|---|
| certificate of suitability | |
| ● EAC approval | Yes |
| ● RoHS conformity | Yes |
| ● fire protection in accordance with EN 45545-2 | No |
| standard | |
| ● for fire behavior / flame resistance | UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H) |
| reference code | |
| ● according to IEC 81346-2 | WG |
| ● according to IEC 81346-2:2019 | WGB |

**further information / internet links**

| | |
|---|---|
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |

**security information**

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|---|---|
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**Approvals / Certificates**

| General Product Approval | Environment |
|---|---|
| CE EG-Konf.    UK CA    CCC | Confirmation |

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| **last modified:** | 8/8/2024 |