## **SIEMENS**

Data sheet 6XV1875-5DH20

Product type designation Product description

SIMATIC NET Antenna Connection Cable RSMA/SMA Male/ Male
Connecting cable for SIMATIC NET antennas, preassembled
SIMATIC NET, IWLAN R-SMA/ SMA MALE/MALE FLEXIBLE
CONNECTION CABLE PREASSEMBLED, LENGTH 2M FLEXIBLE
CONNECTION CABLE FOR COMPONENTS WITH R-SMA AND
SMA CONNECTION



Suitability for use	Flexible connecting cable for connecting a cabinet bushing with SMA connection to an access point/client
Wire length	2 m

Electrical data	
Number of electrical connections	2
Type of electrical connection	RSMA/ SMA male/male
Transmission frequency	0 6000 MHz
Damping ratio 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 %

Outer diameter  • of inner conductor • of dielectric • of acable sheath  Symmetrical tolerance of the outer diameter / of cable sheath  Naterial • of inner conductor • of dielectric • of orable sheath  O.76 mm  Material • of inner conductor • of dielectric • of cable sheath  FRNC  Color • of cable sheath  Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible  Tensile load / maximum  Weight per length  Tensile load / maximum  Ambient temperature • during operation • during storage • during transport • during itensistance • to mineral oil  Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Product properties, functions, components / general  Product resure • halogen-free • silicon-free • Standards, specifications, approvals  Certificate of sutability • Fire protection in accordance with EN 45545-2  No  Standard • for behavior in fire: fiame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	Design of the shield	Braided shield made of tin-plated copper wires
of dielectric     of cable sheath     Symmetrical tolerance of the outer diameter / of cable sheath     Thickness / of cable sheath     O.76 mm  Material     of inner conductor     of dielectric     of dielectric     of cable sheath     FRNC  Color     of cable sheath     pastel turquoise  Bending radius     with single bend / minimum permissible     with multiple bends / minimum permissible     ovint multiple bends / minimum permissible	Outer diameter	
of cable sheath     Symmetrical tolerance of the outer diameter / of cable sheath	of inner conductor	1.4 mm
Symmetrical tolerance of the outer diameter / of cable sheath  Thickness / of cable sheath  Material  • of inner conductor • of dielectric • of cable sheath  FRNC  Color • of cable sheath  Eending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • during realions  • during instellations  • during operation  • during operation  • during storage  • during storage  • during installation  • during installation  • 25 +80 °C  Chemical resistance  • lo mineral oil  conditional resistance  resistant  Protection class IP  Product properties, functions, components / general  Product properties, functions, components / general  Product feature  • halogen-free  • silicon-free  Yes  Standards, specifications, approvals  Certificate of suitability  • Fire protection in accordance with EN 45545-2  No  Standard  • for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• of dielectric	3.8 mm
cable sheath Thickness / of cable sheath Material  • of inner conductor • of dielectric • of cable sheath FRNC  Color • of cable sheath Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible 45 mm  Tensile load / maximum 80 N  Weight per length 75 kg/km  Permitted ambient conditions  Ambient temperature • during operation • during installation • during installation • to mineral oil Radiological resistance / to UV radiation Product feature • halogen-free • sillicon-free • sillicon-free  Permitted of suitability • RoHS conformity • RoHS conformity • Fire protection in accordance with EN 45545-2 Standards • for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• of cable sheath	6.3 mm
## Or inner conductor  • of dielectric • of delectric • of cable sheath  ## Color • of cable sheath  ## Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple meds / with multiple	-	0.2 mm
of inner conductor     of dielectric     of cable sheath     FRNC  Color     of cable sheath     Bending radius     owith single bend / minimum permissible     owith multiple bends / minimum permissible     o	Thickness / of cable sheath	0.76 mm
of dielectric     of cable sheath     FRNC  Color     of cable sheath     Bending radius     with single bend / minimum permissible     with multiple bends / minimum permissible     ovith multiple bends / minimum     ovith multiple bends / minimum     ovith multiple bends / minimum     ovith multiple bends / minimum permissible     ovith single bend / minimum permissible     ovith multiple bends / minimum permissible     ovith single bends / minimum permissible     ovith singl	Material	
• of cable sheath  Color • of cable sheath  Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple permissionsible • with multiple maximum •	• of inner conductor	Cu
Color  • of cable sheath  Bending radius  • with single bend / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  • with multiple bends / minimum permissible  45 mm  Tensile load / maximum  80 N  Weight per length  75 kg/km  Permitted ambient conditions  Ambient temperature  • during operation  • during storage  • during storage  • during installation  -25 +80 °C  Chemical resistance  • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product properties, functions, components / general  Product feature  • halogen-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• of dielectric	polyethylene foam
• of cable sheath  Bending radius  • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible  1	• of cable sheath	FRNC
Bending radius  • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible  1	Color	
<ul> <li>with single bend / minimum permissible</li> <li>with multiple bends / minimum permissible</li> <li>45 mm</li> <li>80 N</li> <li>Weight per length</li> <li>75 kg/km</li> </ul> Permitted ambient conditions Ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>during installation</li> <li>2-40 +80 °C</li> <li>during installation</li> <li>-40 +80 °C</li> <li>during installation</li> <li>-25 +80 °C</li> </ul> Chemical resistance <ul> <li>to mineral oil</li> <li>conditional resistance</li> </ul> Product properties, functions, components / general Product properties, functions, components / general Product feature <ul> <li>halogen-free</li> <li>silicon-free</li> </ul> Yes Standards, specifications, approvals Certificate of suitability <ul> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> </ul> No Standard <ul> <li>for behavior in fire: flame resistance</li> </ul> UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• of cable sheath	pastel turquoise
with multiple bends / minimum permissible Tensile load / maximum  Weight per length  Permitted ambient conditions  Ambient temperature     during operation     during storage     during transport     during installation  Chemical resistance     to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature     halogen-free     silicon-free  Standards, specifications, approvals  Certificate of suitability     RoHS conformity     Fire protection in accordance with EN 45545-2  Standard     for behavior in fire: flame resistance  45 mm  80 N  75 kg/km  75 kg/km  75 kg/km  75 kg/km  76 C  40 +80 °C	Bending radius	
Tensile load / maximum  Weight per length  75 kg/km  Permitted ambient conditions  Ambient temperature  • during operation • during storage • during installation • during installation  Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature • halogen-free • silicon-free  Standards, specifications, approvals  Certificate of suitability • RoHS conformity • Fire protection in accordance with EN 45545-2  Standard • for behavior in fire: flame resistance  880 N 75 kg/km 75 kg/km 76	• with single bend / minimum permissible	32 mm
Permitted ambient conditions  Ambient temperature  • during operation • during storage • during transport • during installation  Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature • halogen-free • silicon-free  Standards, specifications, approvals  Certificate of suitability • RoHS conformity • Fire protection in accordance with EN 45545-2  Standard • for behavior in fire: flame resistance  1 40 +80 °C  -40 +80	• with multiple bends / minimum permissible	45 mm
Ambient temperature  • during operation • during storage • during transport • during installation  Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature • halogen-free • silicon-free  Standards, specifications, approvals  Certificate of suitability • RoHS conformity • Fire protection in accordance with EN 45545-2  Standard • for behavior in fire: flame resistance  -40 +80 °C -4	Tensile load / maximum	80 N
Ambient temperature  • during operation • during storage • during transport • during installation  • during installation  • during installation  • Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature • halogen-free • silicon-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability • RoHS conformity • Fire protection in accordance with EN 45545-2  Standard • for behavior in fire: flame resistance  -40 +80 °C  -40 +8	Weight per length	75 kg/km
Ambient temperature  • during operation • during storage • during transport • during installation  • during installation  • Chemical resistance • to mineral oil  Radiological resistance / to UV radiation  Protection class IP  Product properties, functions, components / general  Product feature • halogen-free • silicon-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability • RoHS conformity • Fire protection in accordance with EN 45545-2  Standard • for behavior in fire: flame resistance  -40 +80 °C  -	Parmitted ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during installation</li> <li>2-25 +80 °C</li> <li>Chemical resistance</li> <li>to mineral oil</li> <li>conditional resistance</li> <li>to mineral oil</li> <li>resistant</li> <li>Protection class IP</li> <li>IP68; when plugged in</li> <li>Product properties, functions, components / general</li> <li>Product feature</li> <li>halogen-free</li> <li>silicon-free</li> <li>Yes</li> <li>silicon-free</li> <li>Yes</li> <li>Standards, specifications, approvals</li> <li>Certificate of suitability</li> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> <li>No</li> <li>Standard</li> <li>for behavior in fire: flame resistance</li> <li>UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)</li> </ul>		
<ul> <li>during storage</li> <li>during transport</li> <li>during installation</li> <li>-25 +80 °C</li> </ul> Chemical resistance <ul> <li>to mineral oil</li> <li>conditional resistance</li> </ul> Protection class IP <ul> <li>IP68; when plugged in</li> </ul> Product properties, functions, components / general   Product feature Yes   • halogen-free Yes   • silicon-free Yes   Standards, specifications, approvals Certificate of suitability <ul> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> </ul> No Standard <ul> <li>for behavior in fire: flame resistance</li> </ul> UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	·	-40 +80 °C
during transport     during installation     duri		
◆ during installation		
Chemical resistance  • to mineral oil conditional resistance  Radiological resistance / to UV radiation resistant  Protection class IP IP68; when plugged in  Product properties, functions, components / general  Product feature  • halogen-free Yes  • silicon-free Yes  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity Yes  • Fire protection in accordance with EN 45545-2 No  Standard  • for behavior in fire: flame resistance UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	•	
<ul> <li>to mineral oil conditional resistance</li> <li>Radiological resistance / to UV radiation resistant</li> <li>Protection class IP IP68; when plugged in</li> <li>Product properties, functions, components / general</li> <li>Product feature         <ul> <li>halogen-free</li> <li>silicon-free</li> </ul> </li> <li>Standards, specifications, approvals</li> <li>Certificate of suitability         <ul> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> </ul> </li> <li>Standard         <ul> <li>for behavior in fire: flame resistance</li> <li>UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)</li> </ul> </li> </ul>		
Radiological resistance / to UV radiation  Protection class IP  IP68; when plugged in  Product properties, functions, components / general  Product feature  • halogen-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  resistant  Product properties, functions, components / general  Yes  Yes  Yes  No  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)		conditional resistance
Protection class IP  Product properties, functions, components / general  Product feature  • halogen-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  IP68; when plugged in  Yes  Yes  Yes  Yes  No  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)		
Product properties, functions, components / general  Product feature  • halogen-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  Product properties, functions, components / general  Yes  Yes  No  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)		
Product feature  • halogen-free  • silicon-free  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  Ves  Yes  No  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	T 10:00:00 House II	ii oo, iiiion piaggoa iii
<ul> <li>halogen-free</li> <li>silicon-free</li> <li>Yes</li> <li>Yes</li> <li>Standards, specifications, approvals</li> <li>Certificate of suitability         <ul> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> </ul> </li> <li>Standard         <ul> <li>for behavior in fire: flame resistance</li> <li>UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)</li> </ul> </li> </ul>		l e e e e e e e e e e e e e e e e e e e
• silicon-free  Yes  Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  Ves  Yes  Ves  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)		
Standards, specifications, approvals  Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• halogen-free	Yes
Certificate of suitability  • RoHS conformity  • Fire protection in accordance with EN 45545-2  Standard  • for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	• silicon-free	Yes
<ul> <li>RoHS conformity</li> <li>Fire protection in accordance with EN 45545-2</li> <li>Standard</li> <li>for behavior in fire: flame resistance</li> <li>UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)</li> </ul>		
Fire protection in accordance with EN 45545-2  Standard      for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	•	Yes
• for behavior in fire: flame resistance  UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)	•	
• for behavior in fire: flame resistance UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)		.,,
		UL 1685 (Vertical tray), UL 1581 Sec. 1090 (H)
Further Information / Internet Links	Further Information / Internet Links	
Internet-Link		

• to website: Selector SIMATIC NET

**SELECTION TOOL** 

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

last modified:

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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