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Data sheet 6XV1875-2D

product type designation	**IWLAN RCoax Cable 5 GHz**
	IWLAN RCoax cable PE 1/2" 5 GHz short distance -40 °C/+85 °C ext. temperature range. Sold by the meter minimum order quantity 20 m delivery unit: max. 1000 m.



suitability for operation	For example, suspended monorails, cranes, stacker cranes. Line is water-repellent, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as iodophors, peroxyacetic acids (1% solution), and quaternary ammonium cations). Cleaning with high-pressure cleaner up to 50 kg.
radio frequencies	
operating frequency	
● for WLAN in 5 GHz frequency band 1	5.15 ... 5.85 GHz
electrical data	
impedance	50 Ω
attenuation factor per length	
● at 5.15 GHz / with cable mounted 10 mm above concrete / at 20 °C	0.23 dB/m
● at 5.15 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C	0.24 dB/m
● at 5.85 GHz / with cable mounted 10 mm above concrete / at 20 °C	0.24 dB/m
● at 5.85 GHz / with cable mounted 15 mm above aluminum rail / at 20 °C	0.27 dB/m
coupling attenuation	
● at 5.15 GHz / at 20 °C	42 dB
● at 5.85 GHz / at 20 °C	40 dB
● note	c(50) for distance of 10 cm between antenna and cable
capacity per length	76 pF/m
DC resistance per length	
● of inner conductor / at 20 °C	1.48 Ω/km
● of coaxial line conductor / at 20 °C	2.8 Ω/km
relative speed	88 %
mechanical data	
outer diameter	
● of inner conductor	4.8 mm
● of dielectric	12.4 mm
● of cable sheath	15.5 mm
thickness / of cable sheath	1.3 mm
material	
● of inner conductor	Copper clad aluminum
● of dielectric	Polyethylene foam
● of coaxial line conductor	Overlapping copper foil with the slot groups bonded to cable jacket
● of cable sheath	Halogen-free polyolefine
color / of cable sheath	pastel turquoise
bending radius	

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● with single bend / minimum permissible	200 mm
number of bending cycles	1
tensile load / maximum	1100 N
weight per length	0.232 kg/m
mounting distance	
● recommended	0.5 m
ambient conditions	
ambient temperature	
● during operation	-40 ... +85 °C
● during storage	-70 ... +85 °C
● during installation	-25 ... +60 °C
product feature / resistant to UV radiation	Yes
standards, specifications, approvals	
standard	
● for fire behavior	
— corrosive gas emission	IEC 60754-2
— smoke emission	IEC 60332-1 and IEC 60332-3 Cat. C
— flame resistance	IEC 61034
certificate of suitability	
● UL approval	Yes
wireless approval	Current national approvals can be found on the Internet under www.siemens.com/funkzulassungen
reference code / according to IEC 81346-2:2019	TFB
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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