

RAD-ISM-2400-ANT-OMNI-6-0 - Antenna



2885919

<https://www.phoenixcontact.com/us/products/2885919>

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Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



Your advantages

- Ideally suited for stationary 2.4 GHz applications
- For use in potentially explosive areas
- Salt water resistant

Commercial data

Item number	2885919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
GTIN	4046356146319
Weight per piece (including packing)	394.7 g
Weight per piece (excluding packing)	388.7 g
Customs tariff number	85177100
Country of origin	PL

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Product properties

Product type	Antenna
Scope of supply	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	6 dBi
Vertical beamwidth	30 °
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	2.4 GHz
Frequency range	2.4 GHz ... 2.5 GHz
Impedance	50 Ω
Maximum capacity	25.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 1.80

Connection data

Connection technology

Connection method	N (female)
Outside diameter	25 mm ... 100 mm (Mast)

Ex data

Safety data

Input voltage U_i	30 V
Input current I_i	600 mA
Max. internal inductance L_i	negligible
Capacitance C_i	negligible

Dimensions

Height	250 mm
Diameter	22 mm

External dimensions

Outside diameter	25 mm ... 100 mm (Mast)
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Material specifications

Material	Fiberglass-reinforced plastic
	V2A
	V2A
Flammability rating according to UL 94	HB

Cable/line

Connecting cable	no
Other resistance	salt water resistant

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C
Wind velocity	220 km/h

Approvals

Electronic devices in rail vehicles

Shock (operation)	IEC 60721-3-4, 4M5
Vibration (operation)	IEC 60721-3-4, 4M5 Random

Standards and regulations

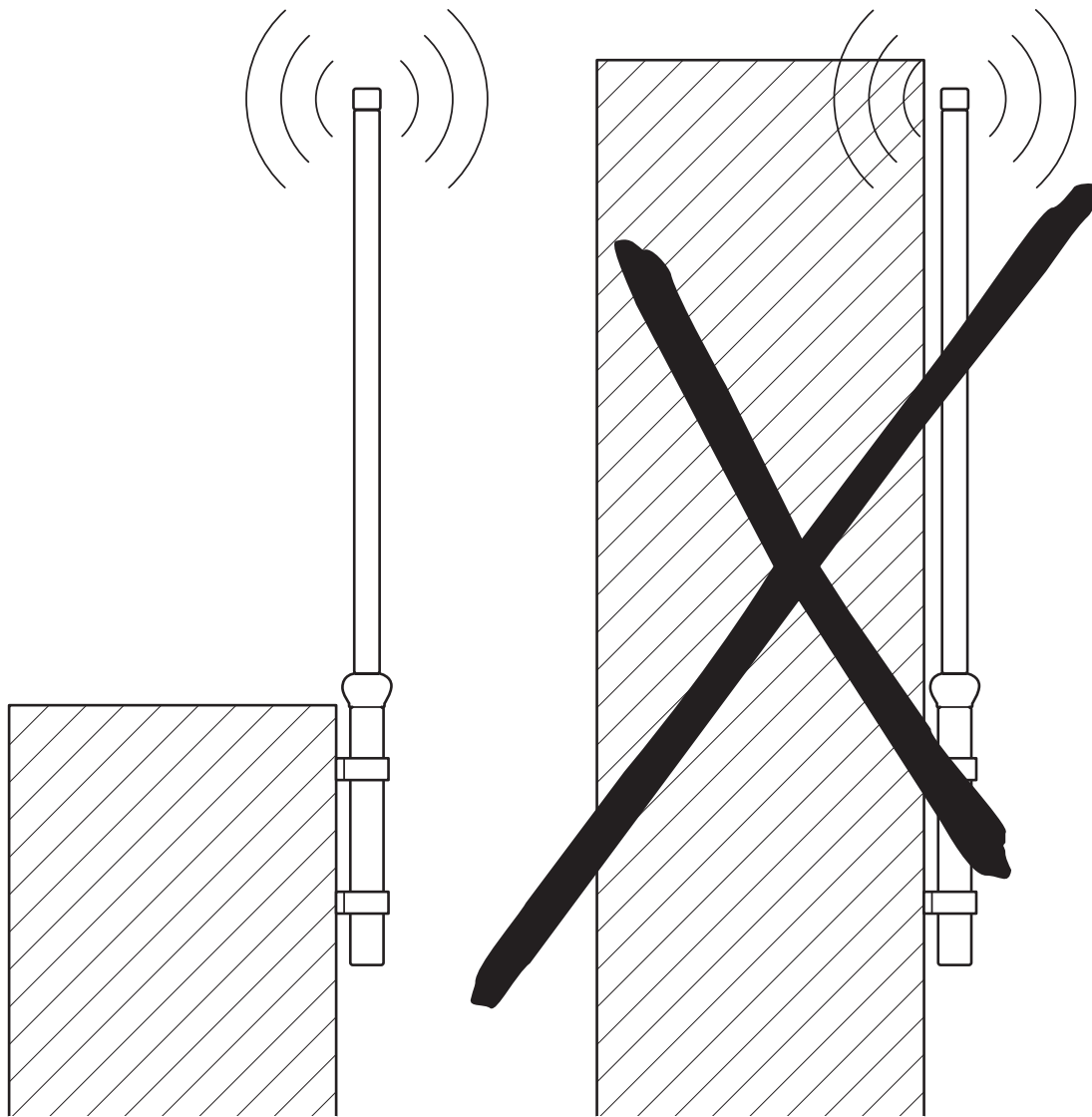
Other resistance	salt water resistant
Standards/specifications	EN 60079-0
	EN 60079-11
	EN 60079-26

Mounting

Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

Drawings

Schematic diagram

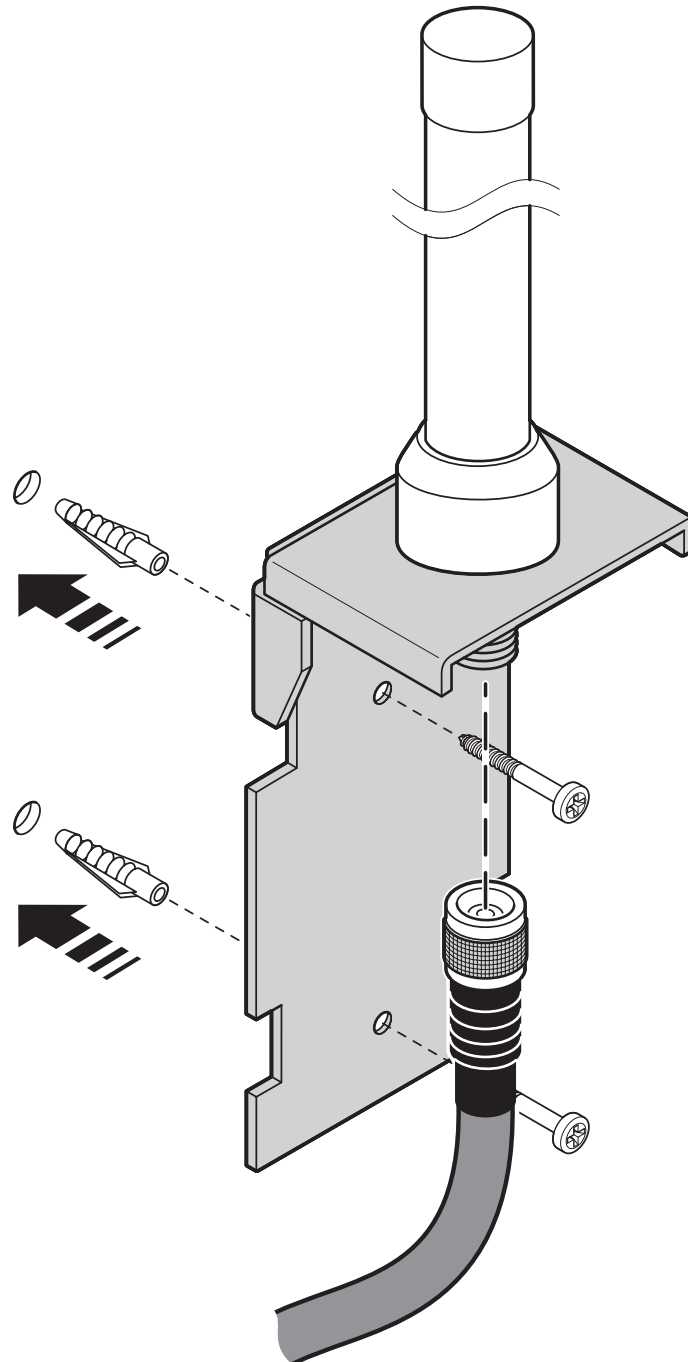


Panel mounting

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Schematic diagram



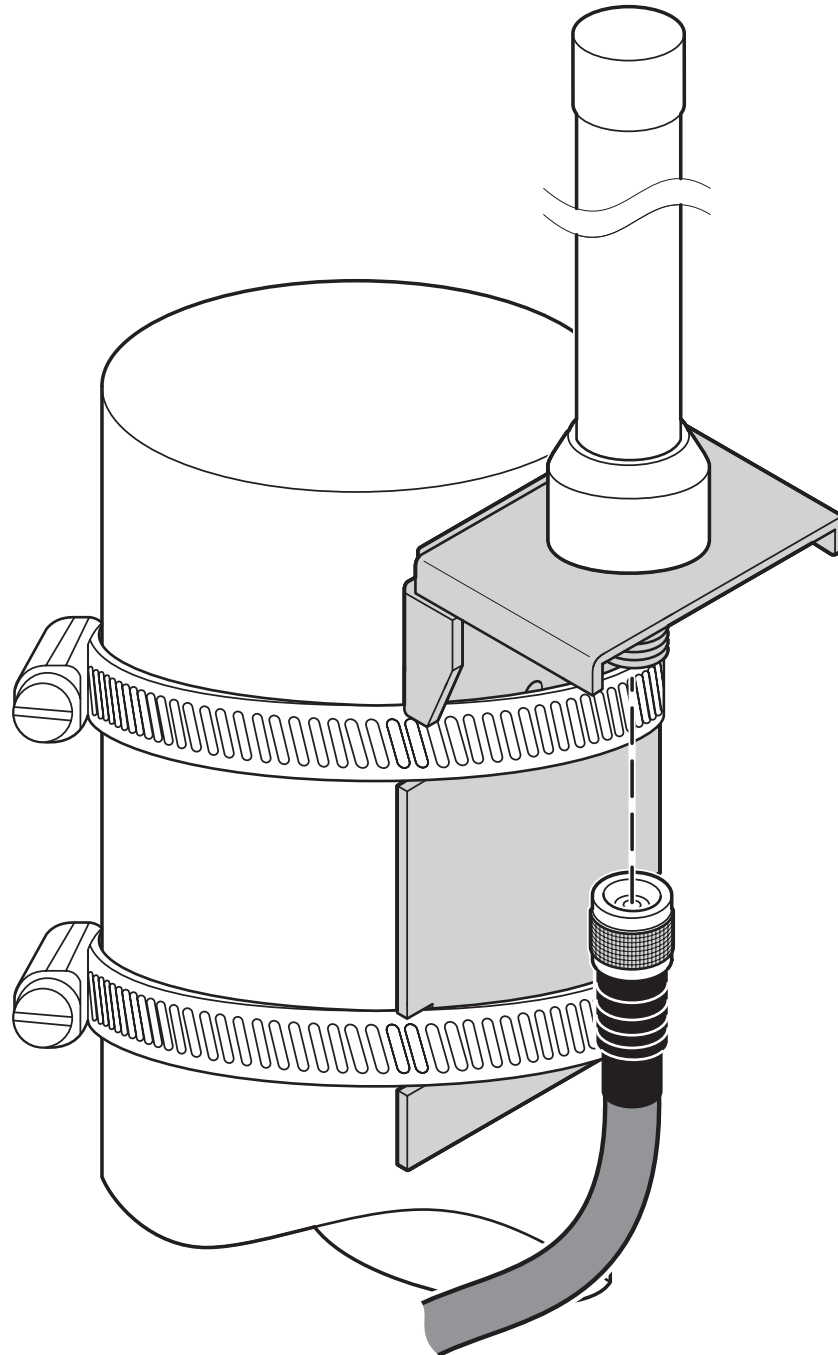
Panel mounting

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Schematic diagram



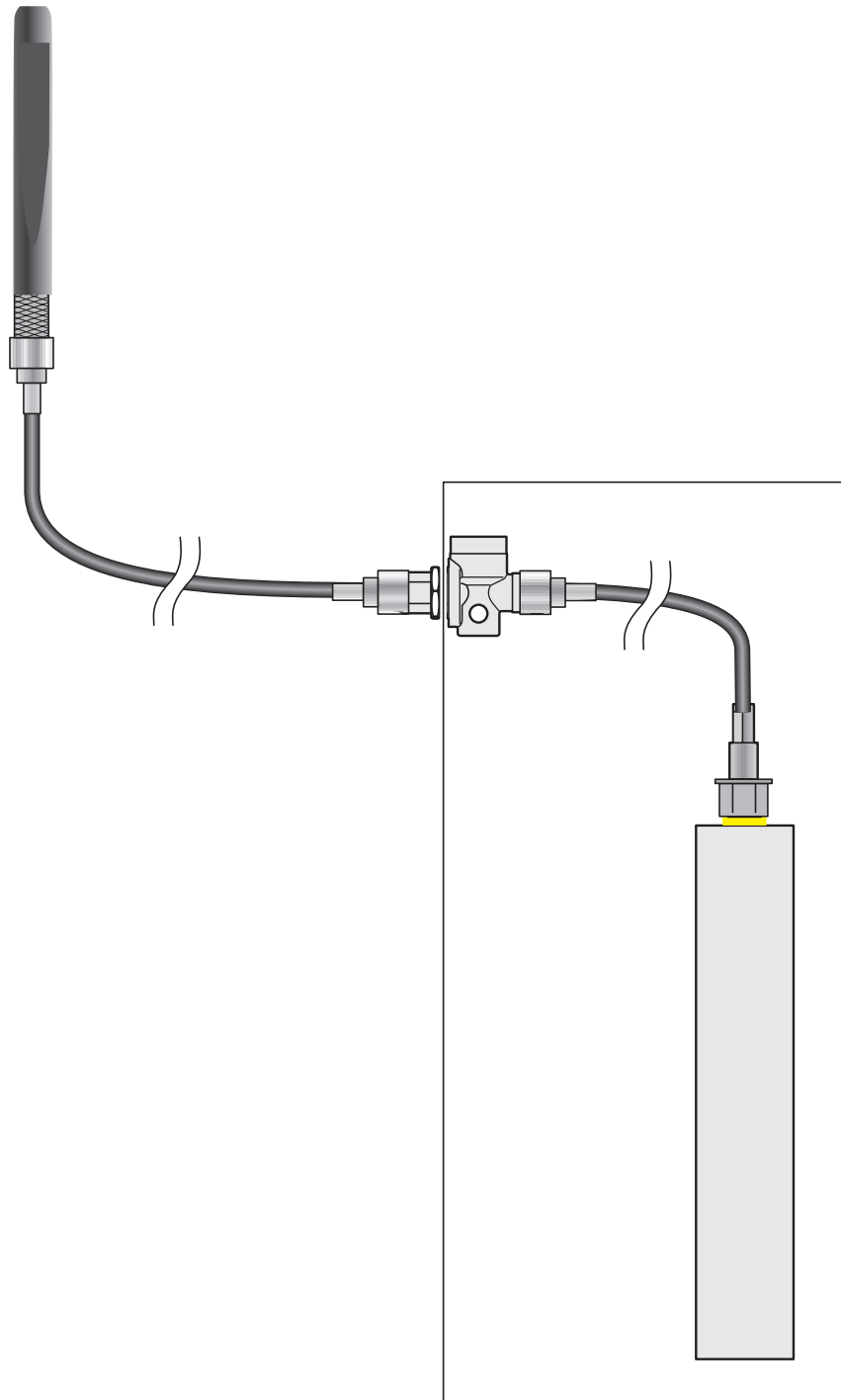
Mast mounting

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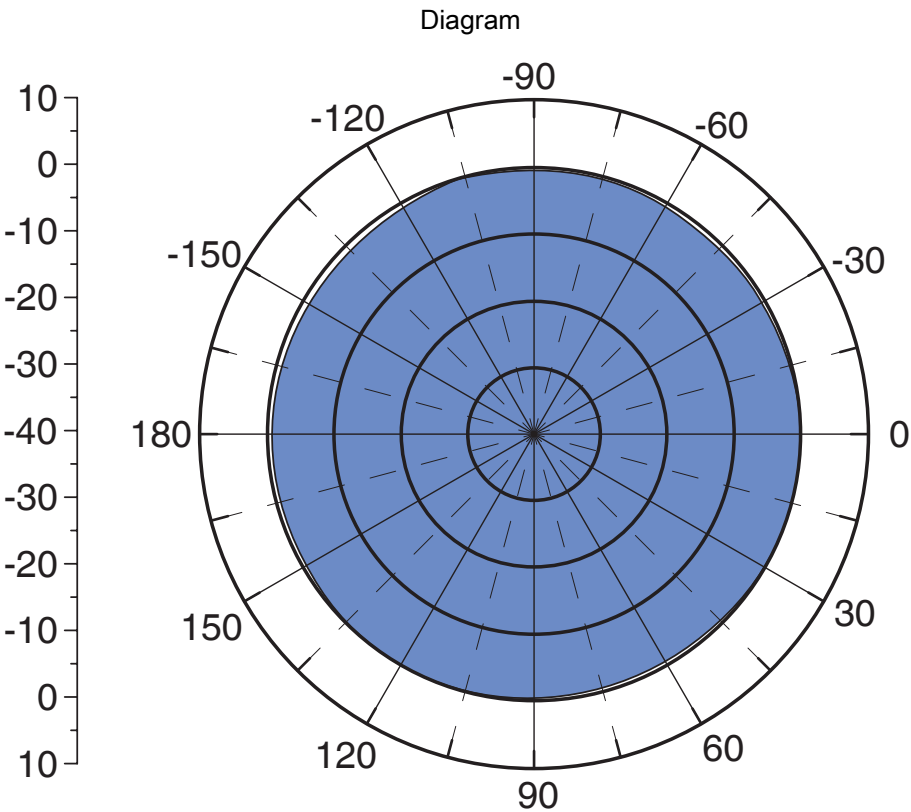
Schematic diagram



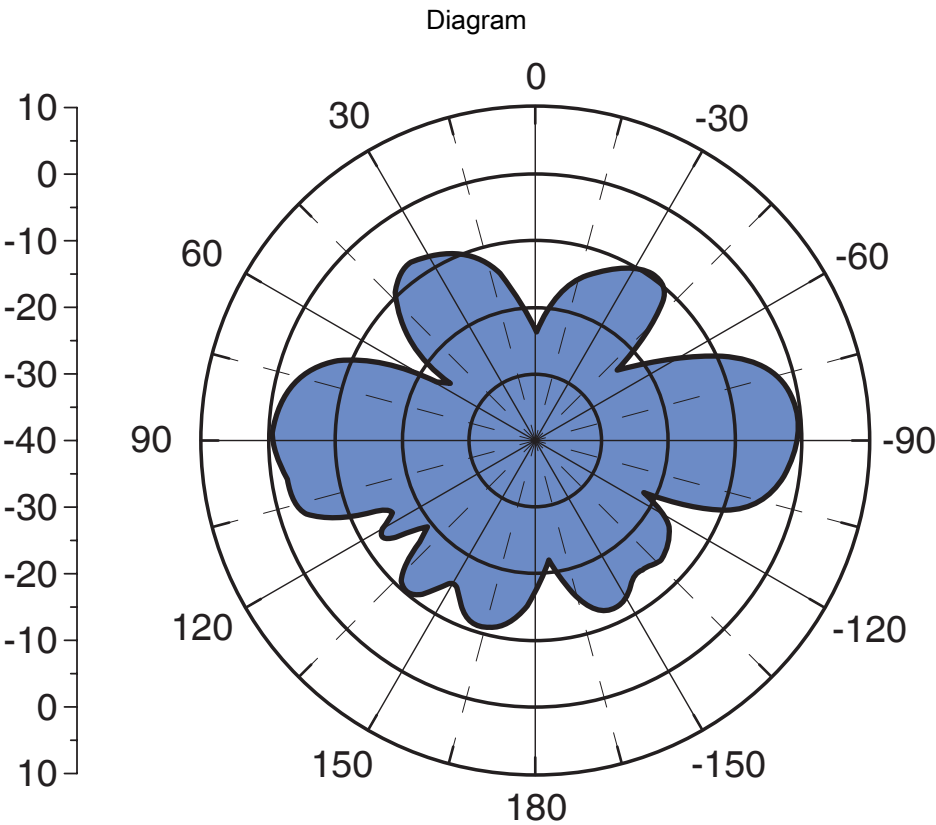
Installation example

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Horizontal



Vertical

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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2885919>



IECEx

Approval ID: IECEx IBE 14.0039X



ATEX

Approval ID: IBExU 14 ATEX 1116 X

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Classifications

ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

ETIM

ETIM 9.0	EC001698
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UNSPSC

UNSPSC 21.0	43223100
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	86753522-f4e3-43de-85d3-3e51600a111f

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Accessories

RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

<https://www.phoenixcontact.com/us/products/2903263>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)

RAD-PIG-RSMA/N-1 - Antenna cable

2903264

<https://www.phoenixcontact.com/us/products/2903264>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 1 m (3.3 ft.)

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NBC-COX-CNM/1.5-M/COX-CLM - Coaxial cable

1340133

<https://www.phoenixcontact.com/us/products/1340133>



Coaxial cable, 50 Ω , length: 1.5 m, N(m) - RSMA(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.7 dB, 2.4 GHz 1.1 dB, 5.8 GHz 1.8 dB, 7.25 GHz 2.1 dB

RAD-PIG-RSMA/N-2 - Antenna cable

2903265

<https://www.phoenixcontact.com/us/products/2903265>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.9 / 1.3 / 2.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 2 m (6.5 ft.)

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RAD-PIG-RSMA/N-3 - Antenna cable

2903266

<https://www.phoenixcontact.com/us/products/2903266>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 1.2 / 2.0 / 3.0 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 3 m (10 ft.)

RAD-PIG-RSMA/N-5 - Antenna cable

2702140

<https://www.phoenixcontact.com/us/products/2702140>



Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 2.0 / 3.3 / 4.8 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 5 m (16 ft.)

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CN-UB-70DC-6-BB - Surge protection device

2803166

<https://www.phoenixcontact.com/us/products/2803166>



Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

RAD-ADP-N/F-N/F - Adapter

2867843

<https://www.phoenixcontact.com/us/products/2867843>



Antenna adapter for control cabinet feed-through, frequency range: 0.3 GHz ... 6 GHz, degree of protection: IP65, connection: 2 x N (female)

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BAR-ANT-N-N-EX - Antenna barrier

2702198

<https://www.phoenixcontact.com/us/products/2702198>



Antenna barrier for control cabinet feed-through, type of protection: Ex i, degree of protection: IP65, barrier installation: zone 2 / 22, antenna installation: in dust and gas Ex area, frequency range: 0.3 GHz ... 6 GHz, connection: 2 x N (female), ATEX, IECEx approval

NBC-COX-CNM/0.5-M/COX-CNM - Coaxial cable

1340122

<https://www.phoenixcontact.com/us/products/1340122>



Coaxial cable, 50 Ω , length: 0.5 m, N(m) - N(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.2 dB, 2.4 GHz 0.4 dB, 5.8 GHz 0.7 dB, 7.25 GHz 0.8 dB

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NBC-COX-CNM/3.0-L/COX-CNM - Coaxial cable

1340123

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Coaxial cable, 50 Ω , length: 3 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.5 dB, 2.4 GHz 0.8 dB, 5.8 GHz 1.3 dB, 7.25 GHz 1.5 dB

NBC-COX-CNM/5.0-L/COX-CNM - Coaxial cable

1340124

<https://www.phoenixcontact.com/us/products/1340124>



Coaxial cable, 50 Ω , length: 5 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.8 dB, 2.4 GHz 1.4 dB, 5.8 GHz 2.2 dB, 7.25 GHz 2.5 dB

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NBC-COX-CNM/10.0-L/COX-CNM - Coaxial cable

1340125

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Coaxial cable, 50 Ω , length: 10 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 1.6 dB, 2.4 GHz 2.7 dB, 5.8 GHz 4.3 dB, 7.25 GHz 5 dB

NBC-COX-CNM/15.0-L/COX-CNM - Coaxial cable

1340126

<https://www.phoenixcontact.com/us/products/1340126>



Coaxial cable, 50 Ω , length: 15 m, N(m) - N(m), external cable diameter: 10.3 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 2.4 dB, 2.4 GHz 4.1 dB, 5.8 GHz 6.5 dB, 7.25 GHz 7.5 dB

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RAD-ADP-RSMA/M-RSMA/F-90 - Adapter

2904790

<https://www.phoenixcontact.com/us/products/2904790>



Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: RSMA (male)
-> RSMA (female), 90° angled

RAD-TAPE-SV-19-3 - Weather protection tape

2903182

<https://www.phoenixcontact.com/us/products/2903182>



Vulcanizing sealing tape for external protection of adapters, cable connections,
etc. against the effects of weather, roll length: 3 m

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