

ANT-OMNI-0671-01 - Antenna

1396316

<https://www.phoenixcontact.com/in/products/1396316>



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Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 7.1 GHz, gain: 1 dBi ... 3 dBi, degree of protection: IP67, seawater-resistant, connection: N (female), incl. mounting bracket and mast clamps

Your advantages

- Ideally suited for freely mobile or stationary applications in 2G/3G/4G/5G cellular networks
- Universal use with the wide frequency range
- Resistant to salt water
- Future-proof, thanks to the use of lead-free materials

Commercial data

Item number	1396316
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DNC6A2
GTIN	4063151780616
Weight per piece (including packing)	206 g
Weight per piece (excluding packing)	141 g
Customs tariff number	85177100
Country of origin	TW

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Antenna
Scope of delivery	included mounting bracket and mast clamps
Radiation characteristics	Omnidirectional
Gain	2 dBi (617 MHz ... 960 MHz)
	1 dBi (1.4 GHz ... 1.6 GHz)
	2 dBi (1.7 GHz ... 2.7 GHz)
	3 dBi (3.3 GHz ... 7.1 GHz)
Vertical beamwidth	70 ° (617 MHz ... 960 MHz)
	60 ° (1.4 GHz ... 2.7 GHz)
	45 ° (3.3 GHz ... 5.9 GHz)
	30 ° 6.0 GHz ... 7.1 GHz
Horizontal beamwidth	360 °
Polarization	Linear vertical

Electrical properties

Frequency band	2400 MHz
	868 MHz
	700 MHz
	800 MHz
	850 MHz
	900 MHz
	1700 MHz
	1800 MHz
	1900 MHz
	2100 MHz
	2600 MHz
	3600 MHz
	5 GHz
Frequency range	0.6 GHz ... 7.1 GHz
Impedance	50 Ω
Maximum capacity	1.00 W
Voltage standing wave ratio VSWR in a 50 Ω system	≤ 3.50

Connection data

Connection technology

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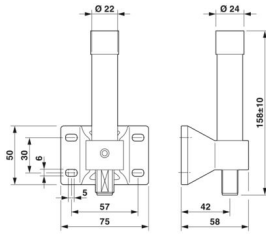


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Connection method	N (female)
Outside diameter	30 mm ... 45 mm (Mast)

Dimensions

Dimensional drawing	
Height	158 mm
Diameter	24 mm

External dimensions	
Outside diameter	30 mm ... 45 mm (Mast)

Material specifications

Material (Radom)	Plastic (glass-fiber reinforced)
Material (Holder)	Plastic (glass-fiber reinforced)
Material (U-bolt)	Stainless steel V2A
Flammability rating according to UL 94	V0

Cable/line

Other resistance	salt water resistant
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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-30 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Wind velocity	220 km/h

Standards and regulations

Other resistance	salt water resistant
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Mounting

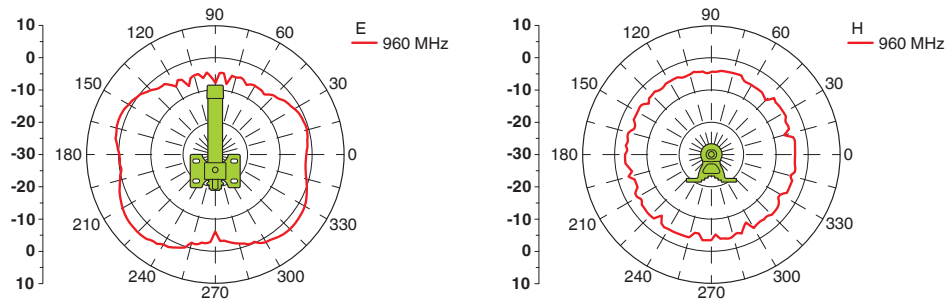
Mounting type	Panel mounting
	Mast mounting
Assembly note	Outdoors and indoors

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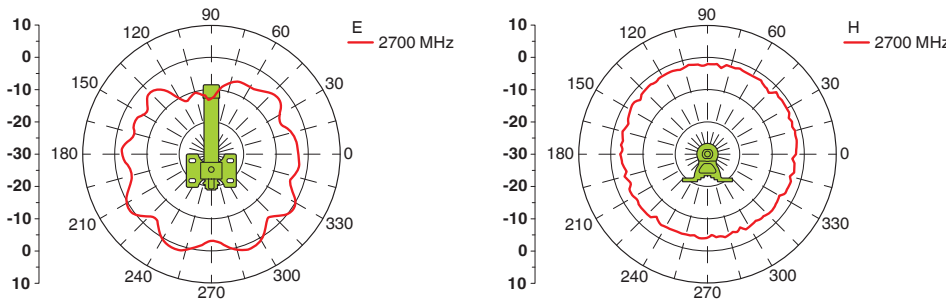
Drawings

Diagram



960 MHz directional characteristics

Diagram



2700 MHz directional characteristics

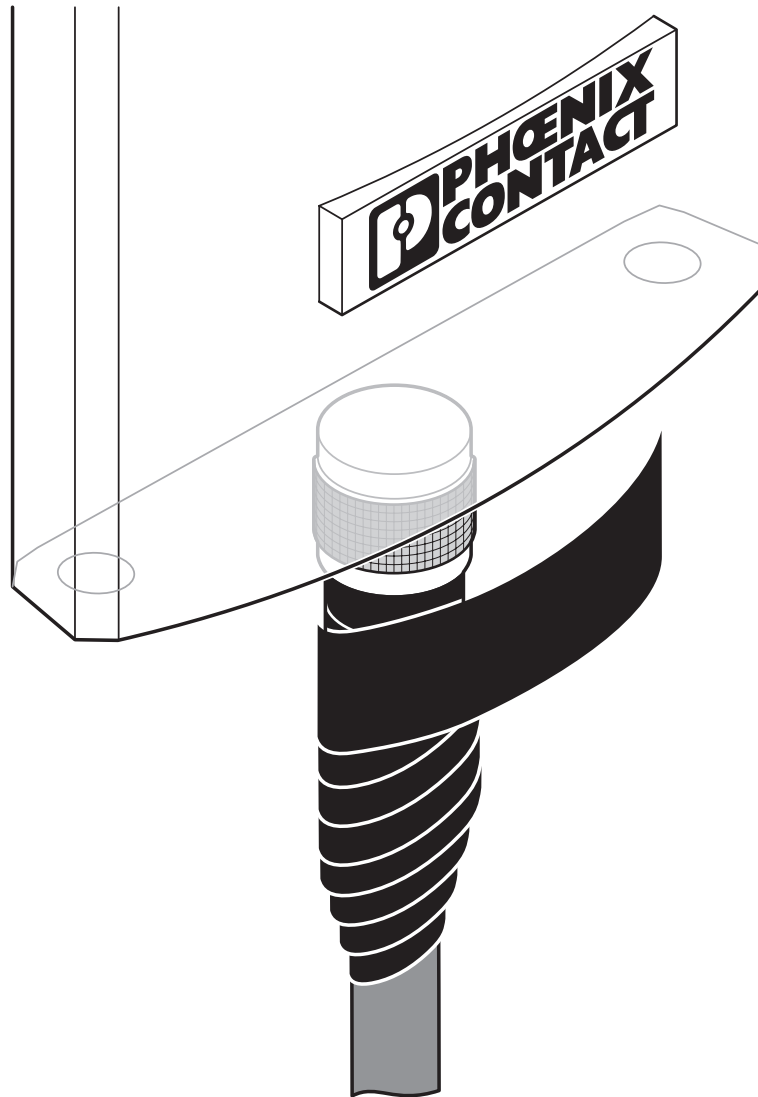
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Schematic diagram



Sealing tape available as an accessory

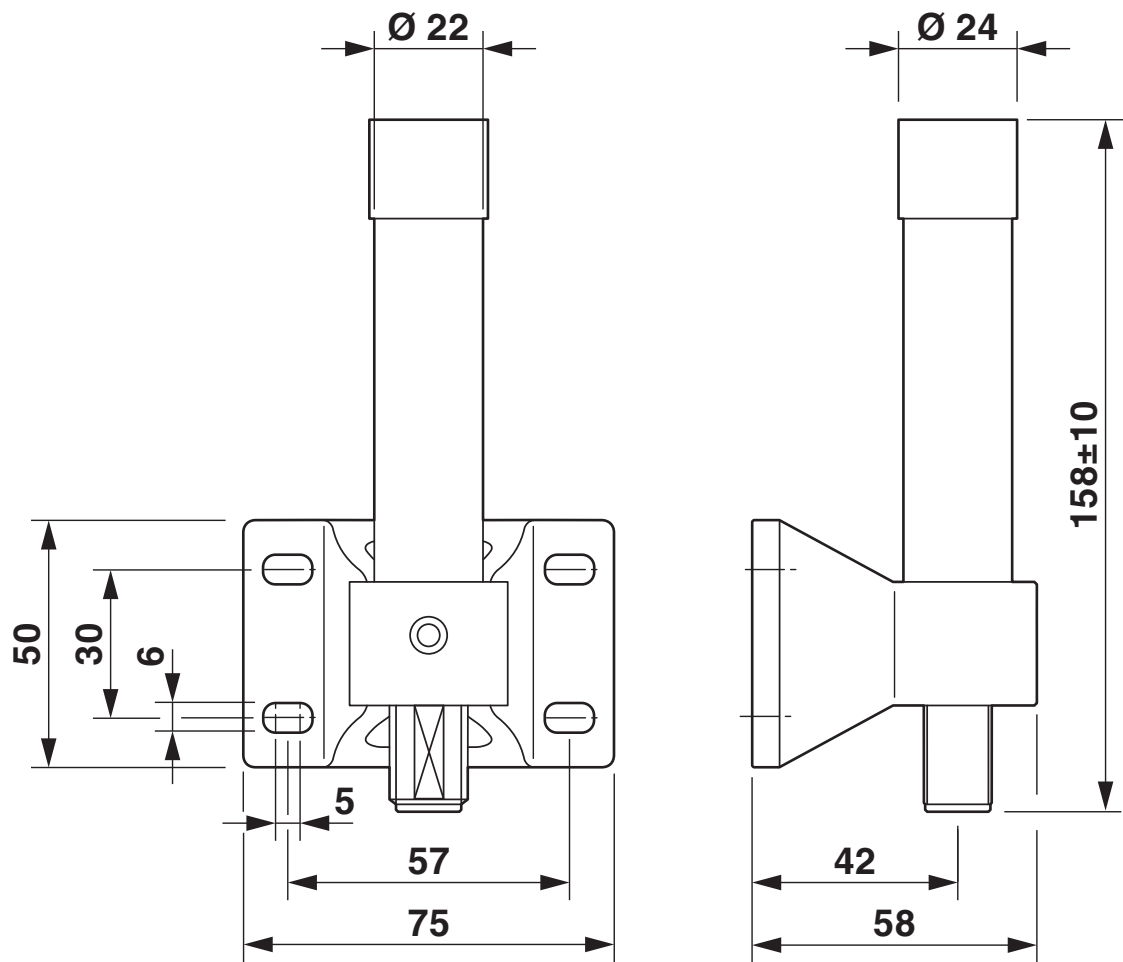
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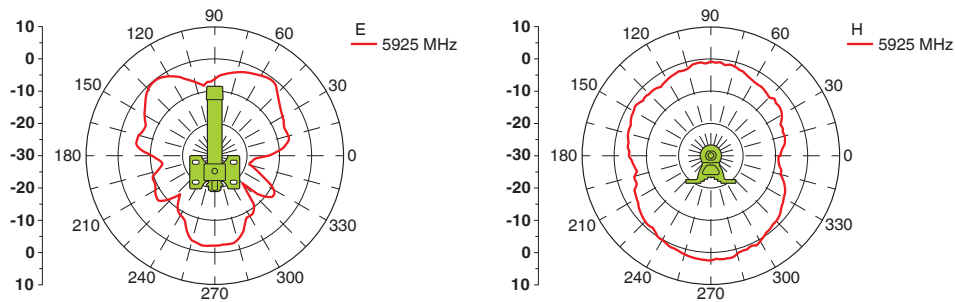
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Dimensional drawing



Dimensional drawing

Diagram



5925 MHz directional characteristics

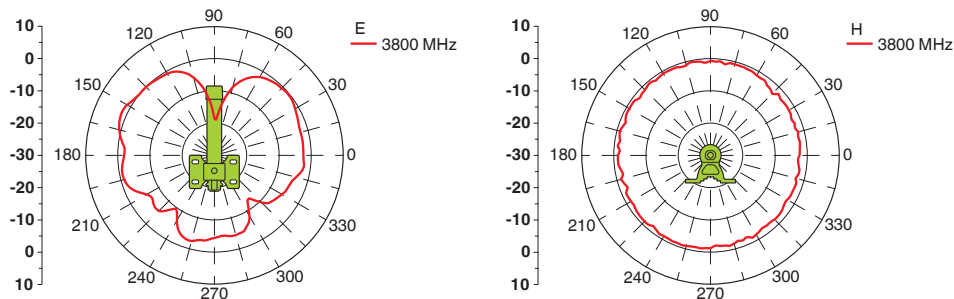
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Diagram



3800 MHz directional characteristics

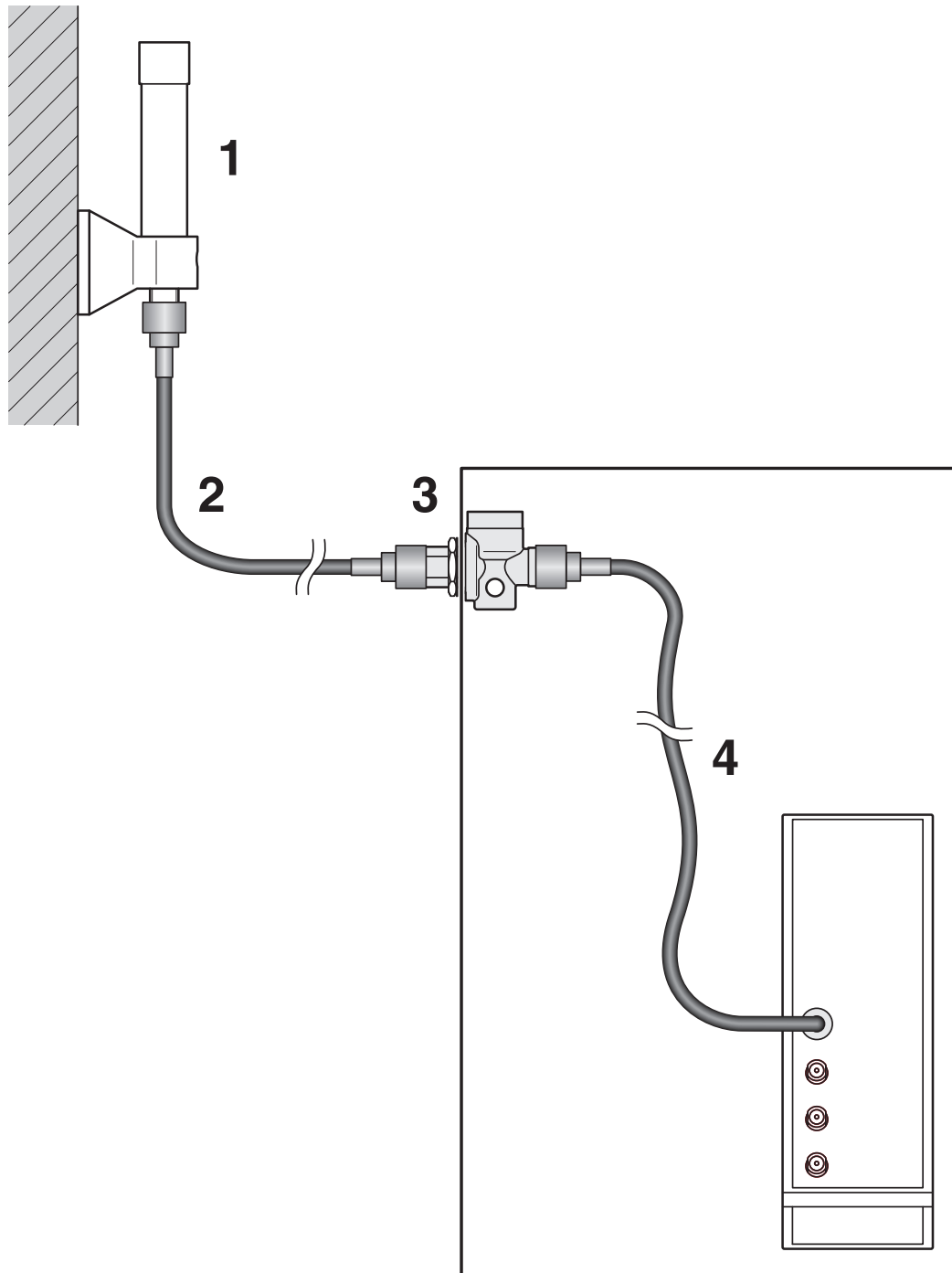
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Schematic diagram



Installation example (antenna cable and surge protection available as accessories)

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Classifications

ECLASS

ECLASS-11.0	19070105
ECLASS-12.0	19070105
ECLASS-13.0	19070105

ETIM

ETIM 9.0	EC001698
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

NBC-COX-CNM/0.5-S/COX-CKM - Coaxial cable

1340139

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Coaxial cable, 50 Ω , length: 0.5 m, N(m) - SMA(m), external cable diameter: 2.8 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.4 dB, 2.4 GHz 0.7 dB, 5.8 GHz 1.1 dB, 7.25 GHz 1.5 dB

NBC-COX-CNM/1.0-M/COX-CKM - Coaxial cable

1340143

<https://www.phoenixcontact.com/in/products/1340143>



Coaxial cable, 50 Ω , length: 1 m, N(m) - SMA(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 0.5 dB, 2.4 GHz 0.8 dB, 5.8 GHz 1.2 dB, 7.25 GHz 1.4 dB

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NBC-COX-CNM/3.0-M/COX-CKM - Coaxial cable

1340144

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Coaxial cable, 50 Ω , length: 3 m, N(m) - SMA(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 1.4 dB, 2.4 GHz 2.3 dB, 5.8 GHz 3.6 dB, 7.25 GHz 4.2 dB

NBC-COX-CNM/5.0-M/COX-CKM - Coaxial cable

1340147

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Coaxial cable, 50 Ω , length: 5 m, N(m) - SMA(m), external cable diameter: 4.9 mm, transmission frequency: ≤ 7.25 GHz, typical attenuation: 800 MHz 2.3 dB, 2.4 GHz 3.8 dB, 5.8 GHz 6 dB, 7.25 GHz 7.3 dB

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

2903263

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

2903266

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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/in/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

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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/in/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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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/in/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

<https://www.phoenixcontact.com/in/products/1340125>



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

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

2903182

<https://www.phoenixcontact.com/in/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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