

# RAD-CON-...

## Radio Connector Adapters



### INTERFACE

Data Sheet  
2418\_en\_B

© PHOENIX CONTACT 2010-12-06

## 1 Description

All of the accessories needed for installing a wireless system – antennas, adapters, cables and surge suppression – are available from Phoenix Contact.

Note that every connection between the radio and antenna causes signal attenuation. The attenuation of a cable is proportional to the cable length; therefore, use only as much cable as is absolutely necessary for the application.



Make sure you always use the latest documentation.  
It can be downloaded at [www.phoenixcontact.net/catalog](http://www.phoenixcontact.net/catalog).



This data sheet is valid for all products listed on the following page:

## 2 Ordering Data

### Products

Description	Type	Order No.	Pcs./Pkt.
Adapter cable, 120 cm, 90° MCX male to N male	RAD-CON-MCX90-N-SS	2885207	1
Adapter cable, 120 cm, MCX male to N female	RAD-CON-MCX-N-SB	2867717	1
Adapter cable, 120 cm, MCX male to N male	RAD-CON-MCX-N-SS	2867254	1
Adapter cable, 25 cm, MCX male to MCX male	RAD-CON-MCX-MCX-SS	2867607	1
Adapter cable, 120 cm, SMA male to N male	RAD-CON-SMA-N-SS	2867403	1
Adapter, RPSMA male to N male	RAD-CON-RPSMA-N-SS	5606141	1
Adapter, RPSMA male to N female	RAD-CON-RPSMA-N-SB	5606145	1

## 3 Technical Data

Cable data	2885207	2867717	2867254	2867607	2867403
Length	1.2 m (4 ft.)	1.2 m (4 ft.)	1.2 m (4 ft.)	1.2 m (4 ft.)	1.2 m (4 ft.)
Connector	MCX male right-angle N male straight	MCX male straight N female straight	MCX male straight N male straight	MCX male right-angle MCX male right-angle	SMA male straight N male straight
Cable type	RG-316 coaxial	RG-316 coaxial	RG-316 coaxial	RG-174 coaxial	RG-316 coaxial
Outer diameter	24.9 mm (0.98 in.)	24.9 mm (0.98 in.)	24.9 mm (0.98 in.)	2.79 mm (0.110 in.)	24.9 mm (0.98 in.)
Minimum bend radius	25 mm (1 in.)	25 mm (1 in.)	25 mm (1 in.)	25 mm (1 in.)	25 mm (1 in.)
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
Maximum pulling tension	222 N (21 lb. <sub>f</sub> )	222 N (21 lb. <sub>f</sub> )	222 N (21 lb. <sub>f</sub> )	222 N (21 lb. <sub>f</sub> )	222 N (21 lb. <sub>f</sub> )
Temperature rating	-70... 200°C (-94... 392°F)	-70... 200°C (-94... 392°F)	-70... 200°C (-94... 392°F)	-70... 75°C (-94... 167°F)	-70... 200°C (-94... 392°F)
Jacket material	FEP Teflon®	FEP Teflon®	FEP Teflon®	PVC	FEP Teflon®
Weight	14.9 kg/1000 m (10.0 lb./1000 ft.)	14.9 kg/1000 m (10.0 lb./1000 ft.)	14.9 kg/1000 m (10.0 lb./1000 ft.)	12.4 kg/1000 m (8.4 lb./1000 ft.)	14.9 kg/1000 m (10.0 lb./1000 ft.)
Attenuation	89.5 dB/100 m (27.3 dB/100 ft.)	89.5 dB/100 m (27.3 dB/100 ft.)	89.5 dB/100 m (27.3 dB/100 ft.)	92.5 dB/100 m (28.2 dB/100 ft.)	89.5 dB/100 m (27.3 dB/100 ft.)

Adapter data	5606141	5606145
Dimensions (length x diameter)	36.8 x 17.3 mm (1.45 x 0.68 in.)	36.8 x 17.3 mm (1.45 x 0.68 in.)
Connector	RPSMA male straight N male straight	RPSMA male straight N female straight
Impedance	50 Ω	50 Ω
Attenuation	<0.5 dB	<0.5 dB