

RAD-CON-...

Radio Connector Adapters



INTERFACE

Data Sheet
2418_en_B

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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.



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. _f) | 222 N (21 lb. _f) | 222 N (21 lb. _f) | 222 N (21 lb. _f) | 222 N (21 lb. _f) |
| 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 |