



***4.3-10 Connector Series  
Product Guide***



## **4.3–10 Connector Series**

Rev: 01 Date: 1/8/2016

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## ***Introduction***

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Rojone Pty. Limited is a well-equipped, professional and progressive Australian owned & operated company. Established in 1981, today we occupy our own 2325 square metre office, store and production facility at Ingleburn, south-west of Sydney.

Our Production is equipped with dedicated test instruments, Vector Network & Spectrum Analysers (E5071C, 8753ES), a Thermoline Thermal Chamber for temperature cycling cables, auxiliary items such as precision 3 Schleuniger 207 and their latest CS5400 cable stripping machine, inspection microscopes, pin depth gauges, intermodulation equipment, and automated test software.

Our strength is in our commitment to service. We provide quality products through unique arrangements with leading component manufacturers and through the dedication of our manufacturing team and technical staff who take pride in a job well done.

Rojone Pty. Limited maintains a Quality System compliant to the ISO9001 Standard. Rojone is third party Accredited by the Military and a number of military subcontractors and major OEM customers.

## ***Contact Us***

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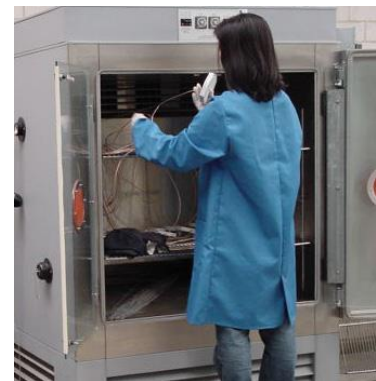
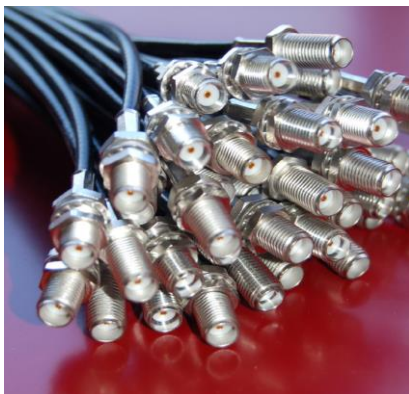
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## **Overview of 4.3-10 Connector System**



The 4.3-10 Connector is a small, lightweight solution for indoor and outdoor telecommunications applications where high performance and low intermodulation is essential.

### **Small and Lightweight**

These lightweight 4.3-10 Connectors are 30% smaller and 60% lighter than the comparable 7/16 square flange jack receptacle. The more compact design allows for a higher connector density on equipment and can support up to 500 Watt at 2 GHz.

### **Performance**

The new interface design features low VSWR to cut-off frequency and a very low ( $< -166$  dBc) passive intermodulation in both static and dynamic conditions. Easy Installation – screw, hand screw and push-pull.

A key feature of the 4.3-10 Connector system is its reduction of required coupling torque, achieved by separating the electrical and mechanical reference planes. 4.3-10 Connectors are available with screw, hand-screw and push-pull coupling mechanisms and all utilising a common jack to simplify installation and extending the range of suitable applications.

### **Outdoor Applications**

The 4.3-10 Connector is also suitable for outdoor environments where reliability is required. Rated to IP68 when mated, and leveraging quality manufacturing techniques optimizes the connector for harsh environmental conditions.

## Connector Types in Comparison (Table 1)

Technical data	Type N	Type 4.1-9.5	Type 4.3-10	Type 7-16
IEC standard	61169-16	60169-11	<b>61169-54</b>	61169-4
Nominal impedance	50 Ω	50 Ω	<b>50 Ω</b>	50 Ω
Cut off frequency	19 GHz	14 GHz	<b>13 GHz</b>	8.3 GHz
Intermodulation (IM3) 2 x 20 W (acc. IEC)	not specified	not specified	<b>&lt; -166 dBc</b>	< -165 dBc
Insulation resistance (initial)	≥ 5 GΩ	≥ 5 GΩ	<b>≥ 5 GΩ</b>	≥ 10 GΩ
Proof voltage at sea level	2.5 kV	2.5 kV	<b>2.5 kV</b>	3 kV
Working voltage at sea level	1.4 kV	1.7 kV	<b>1.8 kV</b>	2.7 kV
Power rating	450 W at 1 GHz 300 W at 2 GHz	650 W at 1 GHz 450 W at 2 GHz	<b>700 W at 1 GHz 500 W at 2 GHz</b>	1,200 W at 1 GHz 850 W at 2 GHz
Contacting outer conductor	Face contact	Face contact	<b>Contact bushing</b>	Face contact
Coupling mechanism	screw	screw	<b>screw, push-pull, hand screw</b>	screw
Coupling torque	3.0 Nm	10 Nm	<b>5 Nm (screw only)</b>	30 Nm
Proof torque	4.0 Nm	15 Nm	<b>7 Nm (screw only)</b>	55 Nm
Tensile strength of coupling mechanism	450 N	550 N	<b>450 N</b>	1,000 N
Packaging density	1 inch 25.4 mm	1 inch 25.4 mm	<b>1 inch 25.4 mm</b>	1.26 inch 32 mm
Wrench Size	19	22	<b>22</b>	32
Temperature range	-67 to 311 °F -55 to +155 °C	-67 to 311 °F -55 to +155 °C	<b>-67 to 311 °F -55 to +155 °C</b>	-67 to 311 °F -55 to +155 °C
Degree of protection (mated)	IP68	IP68	<b>IP68</b>	IP68

## Cable Connectors (Table 2)



Push-Pull



Screw



Hand Screw



Socket

Connector Type	Style	Version	Cable Type	Part number
4.3-10 Screw	Male	CAF	SF 1/4"-50	RO-4310ASCF14MS
4.3-10 Hand Screw	Male	CAF	SF 1/4"-50	RO-4310BSCF14MS
4.3-10 Push-Pull	Male	CAF	SF 1/4"-50	RO-4310CSCF14MS
4.3-10 Screw	Male	CAF	SF 3/8"-50	RO-4310ASCF38MS
4.3-10 Hand Screw	Male	CAF	SF 3/8"-50	RO-4310BSCF38MS
4.3-10 Push-Pull	Male	CAF	SF 3/8"-50	RO-4310CSCF38MS
4.3-10 Right Angle Screw	Male	CAF	SF 3/8"-50	RO-4310ASCF38MRAS
4.3-10 Right Angle Hand Screw	Male	CAF	SF 3/8"-50	RO-4310BSCF38MRAS
4.3-10 Right Angle Push-Pull	Male	CAF	SF 3/8"-50	RO-4310CSCF38MRAS
4.3-10 Screw	Male	Multifit	SF 1/2"-50	RO-4310ASCF12MEZ
4.3-10 Hand Screw	Male	Multifit	SF 1/2"-50	RO-4310BSCF12MEZ
4.3-10 Push-Pull	Male	Multifit	SF 1/2"-50	RO-4310CSCF12MEZ
4.3-10 Socket	Female	Multifit	SF 1/2"-50	RO-4310SSCF12FEZ
4.3-10 Right Angle Screw	Male	Multifit	SF 1/2"-50	RO-4310ASCF12MRAEZ
4.3-10 Right Angle Hand Screw	Male	Multifit	SF 1/2"-50	RO-4310BSCF12MRAEZ
4.3-10 Right Angle Push-Pull	Male	Multifit	SF 1/2"-50	RO-4310CSCF12MRAEZ
4.3-10 Screw	Male	Multifit	LF 1/2"-50	RO-4310ALCF12MEZ
4.3-10 Hand Screw	Male	Multifit	LF 1/2"-50	RO-4310BLCF12MEZ
4.3-10 Push-Pull	Male	Multifit	LF 1/2"-50	RO-4310CLCF12MEZ
4.3-10 Socket	Female	Multifit	LF 1/2"-50	RO-4310SLCF12FEZ
4.3-10 Right Angle Screw	Male	Multifit	LF 1/2"-50	RO-4310ALCF12MRAEZ
4.3-10 Right Angle Hand Screw	Male	Multifit	LF 1/2"-50	RO-4310BLCF12MRAEZ
4.3-10 Right Angle Push-Pull	Male	Multifit	LF 1/2"-50	RO-4310CLCF12MRAEZ
4.3-10 Screw	Male	Multifit	LF 7/8"-50	RO-4310ALCF78MEZ
4.3-10 Hand Screw	Male	Multifit	LF 7/8"-50	RO-4310BLCF78MEZ
4.3-10 Push-Pull	Male	Multifit	LF 7/8"-50	RO-4310CLCF78MEZ
4.3-10 Socket	Female	Multifit	LF 7/8"-50	RO-4310SLCF78FEZ
4.3-10 Screw	Male	Multifit	LF 1 1/4"-50	RO-4310ALCF114MEZ
4.3-10 Hand Screw	Male	Multifit	LF 1 1/4"-50	RO-4310BLCF114MEZ
4.3-10 Push-Pull	Male	Multifit	LF 1 1/4"-50	RO-4310CLCF114MEZ
4.3-10 Socket	Female	Multifit	LF 1 1/4"-50	RO-4310SLCF114FEZ
4.3-10 Screw	Male	Multifit	LF 1 5/8"-50	RO-4310ALCF158MEZ
4.3-10 Hand Screw	Male	Multifit	LF 1 5/8"-50	RO-4310BLCF158MEZ
4.3-10 Push-Pull	Male	Multifit	LF 1 5/8"-50	RO-4310CLCF158MEZ
4.3-10 Socket	Female	Multifit	LF 1 5/8"-50	RO-4310SLCF158FEZ
4.3-10 Screw	Male	Crimped	LMR-400	RO-4310A400MFC
4.3-10 Hand Screw	Male	Crimped	LMR-400	RO-4310B400MFC
4.3-10 Push-Pull	Male	Crimped	LMR-400	RO-4310C400MFC

## ***Fixed Connectors (Table 3)***

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Bulk Head



Four Hole Flange

Connector Type	Version	Part number
4.3-10 Female; Bulk Head	For RG402	RO-4310BHF-402
4.3-10 Female; Bulk Head	For RG401	RO-4310BHF-401
4.3-10 Female; Bulk Head	Inner Conductor M3	RO-4310BHF-M3
4.3-10 Female; Bulk Head	Inner Conductor Solder Cup	RO-4310BHF-SC
4.3-10 Female; Four Hole Flange; 3.2 mm	For RG402	RO-4310FHFF-402
4.3-10 Female; Four Hole Flange; 3.2 mm	For RG401	RO-4310FHFF-401
4.3-10 Female; Four Hole Flange; 3.2 mm	Inner Conductor M3	RO-4310FHFF-M3
4.3-10 Female; Four Hole Flange; 3.2 mm	Inner Conductor Solder Cup	RO-4310FHFF-SC

## Adaptors (Table 4)



Easydock



In Series



Inter Series



Precision

Side A	Side B	Part number
<b>In Series Adaptors</b>		
4.3-10 Male; Screw Type	4.3-10 Female	RO-4310F-4310AM
4.3-10 Male; Screw Type	4.3-10 Male; Screw Type	RO-4310AM-4310AM
4.3-10 Male; Hand Screw Type	4.3-10 Male; Hand Screw Type	RO-4310BM-4310BM
4.3-10 Male; Hand Screw Type	4.3-10 Female	RO-4310BM-4310F
4.3-10 Male; Push-Pull Type	4.3-10 Female	RO-4310CM-4310F
4.3-10 Male; Push-Pull Type	4.3-10 Male; Push-Pull Type	RO-4310CM-4310CM
4.3-10 Female; Bulk Head	4.3-10 Female	RO4310BHF-4310F
<b>Inter Series Adaptors</b>		
4.3-10 Male; Screw Type	7-16 Male	RO-4310AM-716M
4.3-10 Male; Screw Type	7-16 Female	RO-4310AM-716F
4.3-10 Male; Hand Screw Type	7-16 Male	RO-4310BM-716M
4.3-10 Male; Hand Screw Type	7-16 Female	RO-4310BM-716F
4.3-10 Male; Push Pull Type	7-16 Male	RO-4310CM-716M
4.3-10 Male; Push Pull Type	7-16 Female	RO-4310CM-716F
4.3-10 Female	7-16 Male	RO-4310F-716M
4.3-10 Female	7-16 Female	RO-4310F-716F
4.3-10 Male; Screw Type	N Male	RO-4310AM-NM
4.3-10 Male; Screw Type	N Female	RO-4310AM-NF
4.3-10 Male; Hand Screw Type	N Male	RO-4310BM-NM
4.3-10 Male; Hand Screw Type	N Female	RO-4310BM-NF
4.3-10 Male; Push-Pull Type	N Male	RO-4310CM-NM
4.3-10 Male; Push-Pull Type	N Female	RO-4310CM-NF
4.3-10 Female	N Male	RO-4310F-NM
4.3-10 Female	N Female	RO-4310F-NF
4.3-10 Male; Screw Type	3.5 mm Male	RO-4310AM-35M
4.3-10 Male; Screw Type	3.5 mm Female	RO-4310AM-35F
4.3-10 Male; Hand Screw Type	3.5 mm Male	RO-4310BM-35M
4.3-10 Male; Hand Screw Type	3.5 mm Female	RO-4310BM-35F
4.3-10 Male; Push-Pull Type	3.5 mm Male	RO-4310CM-35M
4.3-10 Male; Push-Pull Type	3.5 mm Female	RO-4310CM-35F
4.3-10 Female	3.5 mm Male	RO-4310F-35M
4.3-10 Female	3.5 mm Female	RO-4310F-35F
<b>Easydock – Measurement and Calibration Adaptors</b>		
4.3-10 Male; Bulk Head; Push-Pull Non-Locking	4.3-10 Female	RO-4310ECBHM-4310F
4.3-10 Male; Bulk Head; Push-Pull Non-Locking	N Female	RO-4310ECBHM-NF
4.3-10 Male; Bulk Head; Push-Pull Non-Locking	3.5 mm Female	RO-4310ECBHM-35F
N Male; Bulk Head; Push Pull Non-Locking	4.3-10 Female	RO-NECBHM-4310F
716 Male; Bulk Head; Push Pull Non-Locking	4.3-10 Female	RO-716ECBHM-4310F
<b>Precision – Grade 0 – Up To 12 Ghz</b>		
4.3-10 Male; Screw Type	N Male	RO-4310PAM-NM
4.3-10 Male; Screw Type	N Female	RO-4310PAM-NF
4.3-10 Female	N Male	RO-4310PF-NM
4.3-10 Female	N Female	RO-4310PF-NF



## Coaxial Loads (Table 5)



Cage



Standard

Type	Frequency	IM 3 <sup>rd</sup> Order	Part number
Cable Load, Low PIM, 100W	694-2700MHz	<-150dBc @2x20W	AMA-5247CL-100W-45A
Cable Load, Low PIM, 50W	694-2700MHz	<-150dBc @2x20W	AMA-5247CL-50W-45A
Cable Load, Low PIM, 100W – Cage Type	694-2700MHz	<-150dBc @2x20W	AMA-5257CL-100W-45A
Cable Load, Low PIM, 50W – Cage Type	694-2700MHz	<-150dBc @2x20W	AMA-5257CL-50W-45A

All loads feature 4.3-10 Female Connectors

## DC-Breaks (Table 6)

Side A	Side B	Notes	Part number
4.3-10 Male; Screw Type	4310 Female	380-2700MHz, Low PIM, 400W	RO-4310AM-4310F-DCB

## Calibration Kits (Table 7)



High Precision



Compact

Type	Connector	Frequency	Part number
4-in-1 OSLT Compact Calibration Kit	4.3-10 Male; Screw Type	6 GHz	RO-OSLT-4310AM-6G
4-in-1 OSLT Compact Calibration Kit	4.3-10 Female	6 GHz	RO-OSLT-4310F-6G
OSLT High Precision Calibration Kit	4.3-10 Male; Screw Type 4.3-10 Female	12 GHz	RO-OSLT-4310AM-F-12G
4-in-1 OSLT Compact Calibration Kit	4.3-10 Male; Screw Type	12 GHz	RO-OSLT-4310AM-12G
4-in-1 OSLT Compact Calibration Kit	4.3-10 Female	12 GHz	RO-OSLT-4310F-12G

## ***Connector Gauges (Table 8)***

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Type	Part number
4.3-10 Male Inner Conductor (MIC)	RO-CG-4310MI
4.3-10 Female Inner Conductor (FIC)	RO-CG-4310FI
4.3-10 Female Outer Conductor (FOC)	RO-CG-4310FO

## ***Tools (Table 9)***

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Type	Part number
Torque Wrench 22mm / M = 5Nm	RO-TW-4310-5N
Torque Wrench 22mm / M = 2.5Nm	RO-TW-4310-2'5N

## Attenuators



Attenuators can be configured individually by frequency range, power rating connector style and attenuation.

### AMA-9 3 100 43-XX

XX	Attenuation
3	3dB
6	6dB
10	10dB
20	20dB
30	30dB
40	40dB

XX	Connector Style
13	N Type Male/Female
30	Din716 Male/Female
43	4.3-10 Male (Screw)/Female

XX	Power Rating
005	5W
010	10W
025	25W
050	50W
100	100W
200	200W

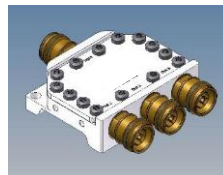
XX	Frequency Range
3	DC – 3 GHz
4	DC – 4 GHz

Attenuator Series

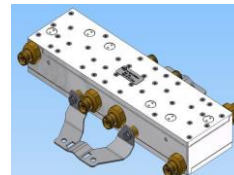
## Couplers, Network Combiners and Dividers (Table 10)



Coupler



Divider

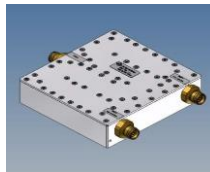


Combiner

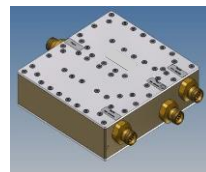
Type	IM 3 <sup>rd</sup> Order @ 2 x 20W	Part number
<b>Multi Network Combiners (LOW PIM)</b>		
Combiner, Multi-Network - 7 Band (700/800/900/1800/2100/2300/2600 MHz)	TBC	ROJ-074-7-1-4310 (In Design)
Combiner, Multi Network - 5 Band (900/1800/2100/2300/2600 MHz)	TBC	ROJ-074-5-1-4310 (In Design)
Combiner, Multi-Network - 4 in 4 out – (700-2700 MHz)	≤-160dB	ROJ-074MNT-4-4-4310
Combiner, Multi-Network - 3 in 3 out – (700-2700 MHz)	≤-160dB	ROJ-074MNT-3-3-4310
<b>Couplers (LOW PIM)</b>		
Hyb. Coupler, 3db, 4p, 700-2700 MHz, IP65 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-3HYB-3
Coupler, 4.8db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-4'8
Coupler, 7.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-7
Coupler, 8.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-8
Coupler, 10.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-10
Coupler, 13.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-13
Coupler, 20.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-20
Coupler, 30.0db, 3p, 700-2700 MHz, IP54 (mated), 300W	≤ -155 dBc   typ. ≤ -160dBc	AMA-14310-30
<b>Symmetrical Dividers (LOW PIM)</b>		
Divider, 2way, 700-2700 MHz, IP62 (mated), 250w	≤ -160 dBc   typ. ≤ -165dBc	AMA-24310-2
Divider, 3way, 700-2700 MHz, IP62 (mated), 250w	≤ -160 dBc   typ. ≤ -165dBc	AMA-24310-3
Divider, 4way, 700-2700 MHz, IP62 (mated), 250w	≤ -160 dBc   typ. ≤ -165dBc	AMA-24310-4
Divider, 8way, 700-2700 MHz, IP62 (mated), 250w	TBC	AMA-24310-8 (In Design)

All components feature 4.3-10 Female Connectors

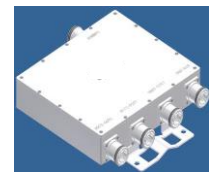
## Combiners (Table 11)



Diplexer



Triplexer



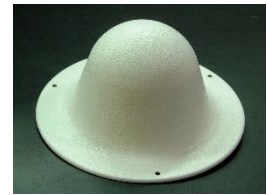
Quadruplexer

Version	Frequency	DC pass	IM 3 <sup>rd</sup> Order	Part number
<b>Diplexer</b>				
Single	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 2170 MHz (GSM1800 – UMTS)	all ports	≤ -165dBc typ. -170dBc	RO-43S-L7G9G18U-A
Double	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 2170 MHz (GSM1800 – UMTS)	all ports	≤ -165dBc typ. -170dBc	RO-43D-L7G9G18U-A
Single	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 2170 MHz (GSM1800 – UMTS)	port 2-out	≤ -165dBc typ. -170dBc	RO-43S-L7G9G18U-2
Double	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 2170 MHz (GSM1800 – UMTS)	port 2-out	≤ -165dBc typ. -170dBc	RO-43D-L7G9G18U-2
Single	Port 1: 791 – 862 MHz (LTE800) Port 2: 876 – 960 MHz (GSM900)	all ports	≤ -155dBc typ. -160dBc	RO-43S-L8G9-A
Double	Port 1: 791 – 862 MHz (LTE800) Port 2: 876 – 960 MHz (GSM900)	all ports	≤ -155dBc typ. -160dBc	RO-43D-L8G9-A
Single	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 2400 – 2700 MHz (WLAN - LTE2600)	all ports	≤ -165dBc typ. -170dBc	RO-43S-L7G9WLL26-A
Double	Port 1: 876 – 960 MHz (GSM900) Port 2: 2400 – 2700 MHz (WLAN - LTE2600)	all ports	≤ -165dBc typ. -170dBc	RO-43D-L7G9WLL26-A
Single	Port 1: 694 – 960 MHz (LTE700 - GSM900) Port 2: 2400 – 2700 MHz (WLAN - LTE2600)	port 2-out	≤ -165dBc typ. -170dBc	RO-43S-L7G9WLL26-2
Double	Port 1: : 694 – 960 MHz (LTE700 - GSM900) Port 2: 2400 – 2700 MHz (WLAN - LTE2600)	port 2-out	≤ -165dBc typ. -170dBc	RO-43D-L7G9WLL26-2
Single	Port 1: 1710 – 1880 MHz (GSM1800) Port 2: 1920 – 2170 MHz (UMTS)	all ports	<≥ -160dBc	RO-43S-G18U-A
Double	Port 1: 1710 – 1880 MHz (GSM1800) Port 2: 1920 – 2170 MHz (UMTS)	all ports	≥ -160dBc	RO-43D-G18U-A
Single	Port 1: 1710 – 1880 MHz (GSM1800) Port 2: 1920 – 2170 MHz (UMTS)	port 2-out	≥ -160dBc	RO-43S-G18U-2
Double	Port 1: 1710 – 1880 MHz (GSM1800) Port 2: 1920 – 2170 MHz (UMTS)	port 2-out	≥ -160dBc	RO-43D-G18U-2
Single	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	all ports	≤ -165dBc typ. -170dBc	RO-43S-G18UL26-A
Double	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	all ports	≤ -165dBc typ. -170dBc	RO-43D-G18UL26-A
Single	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	port 1-out	≤ -165dBc typ. -170dBc	RO-43S-G18UL26-1
Double	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	port 1-out	≤ -165dBc typ. -170dBc	RO-43D-G18UL26-1
Single	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	port 2-out	≤ -165dBc typ. -170dBc	RO-43S-G18UL26-2
Double	Port 1: 1710 – 2170 MHz (GSM1800 – UMTS) Port 2: 2500 – 2700 MHz (LTE2600)	port 2-out	≤ -165dBc typ. -170dBc	RO-43D-G18UL26-2
<b>Triplexer</b>				
Single	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS)	all ports	≤ 160dBc	RO-43ST-L7G9G18-U-A
Double	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS)	all ports	≤ 160dBc	RO-43DT-L7G9G18-U-A

Single	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS)	port 3-out	$\leq 160\text{dBc}$	RO-43ST-L7G9G18U-3
Double	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS)	port 3-out	$\leq 160\text{dBc}$	RO-43DT-L7G9G18U-3
<b>Quadruplexer</b>				
Single	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS) Port 4: 2500 – 2700 MHz (LTE2600)	all ports	$\leq 155\text{dBc}$	RO-43S-L7G9G18UL26-A
Double	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS) Port 4: 2500 – 2700 MHz (LTE2600)	all ports	$\leq 155\text{dBc}$	RO-43D-L7G9G18UL26-A
Single	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS) Port 4: 2500 – 2700 MHz (LTE2600)	port 4-out	$\leq 155\text{dBc}$	RO-43S-L79G18UL26-4
Double	Port 1: 698 – 960 MHz (LTE700 - GSM900) Port 2: 1710 – 1880 MHz (GSM1800) Port 3: 1920 – 2170 MHz (UMTS) Port 4: 2500 – 2700 MHz (LTE2600)	port 4-out	$\leq 155\text{dBc}$	RO-43DL7G9G18UL26-4

*All components feature 4.3-10 Female Connectors*

## Antennas (Table 12)



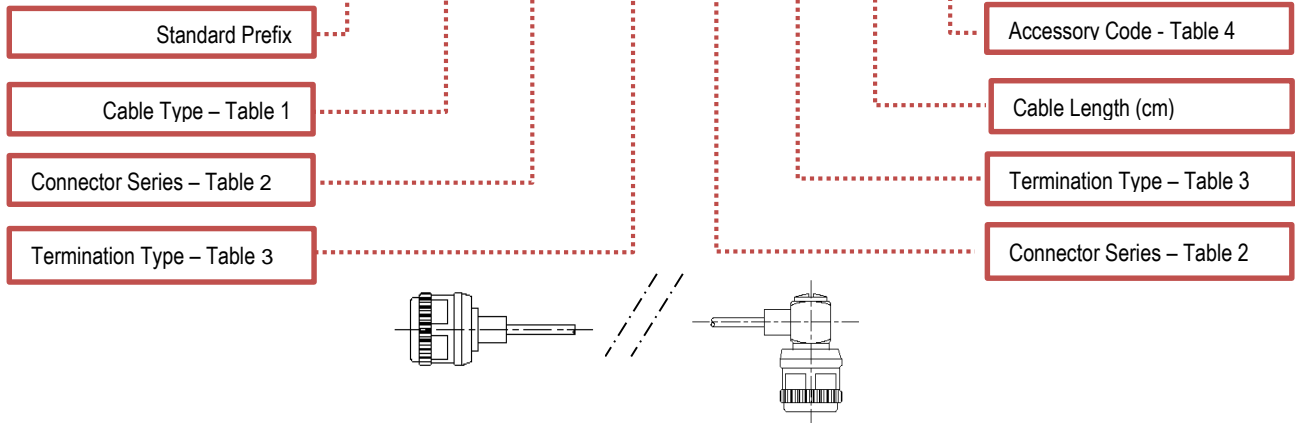
Type	IM 3 <sup>rd</sup> Order	Part number
Antenna, Multiband Omni Micro For IBC 4310F 694-3000 MHz 3-6.5dBi	< -150dBc	AI-467-45C
Antenna, Multiband Directional Micro For IBC 4310F 694-3000 MHz 6-9dBi	< -150dBc	AI-467-D-45C

*All components feature 4.3-10 Female Connectors*

# Jumper Leads

## Cable Assembly Part Number Construction

**CA 042 45S A 45S C 100 08**



CA: Professional Cable Assembly  
 CAI: Cable Assembly – Low Intermodulation Tested

TABLE 1	COAXIAL CABLES						Attenuation dB/100m @ 25°C
Code No.	Cable Type	Impedance	Feature	Size	Dielectric	2.17 GHz	
SF14	SF1/4"-50-PE	50 Ohms	Superflexible	1/4"	Foam	30.14	
SF38	SF3/8"-50-PE	50 Ohms	Superflexible	3/8"	Foam	21.75	
SF12	SF1/2"-50-PE	50 Ohms	Superflexible	1/2"	Foam	17.37	
LF12	LF1/2"-50-PE	50 Ohms	Low Loss	1/2"	Foam	11.10	
LF78	LF7/8"-50-PE	50 Ohms	Low Loss	7/8"	Foam	6.45	

TABLE 2	
Code	Connector Type/Series
45	4.3-10 (Screw)
45H	4.3-10 (Hand Screw)
45P	4.3-10 (Push Pull)
30	DIN 7/16"
15	N LOW INTERMOD
63	SMA – 3.5

TABLE 4	
Code	Accessory Table
Blank	No Accessories
04	Labelling - Custom Requirement
08	Glue Heatshrink Strain Relief

TABLE 3	
Code	Termination Style & Method
A	Crimp Straight Male Plug
B	Crimp Right Angle Male Plug
C	Crimp Straight Female Jack
F	Crimp Bulkhead Female Jack
G	Crimp Square Flange Jack
M	Solder Straight Male Plug
N	Solder Right Angle Male Plug
O	Solder Straight Female Jack
R	Solder Bulkhead Female Jack
S	Solder Square Flange Jack



## **Notes**

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