



## JUMPER SERIES

R296

**Contents**



**Jumpers**

Introduction ..... 6-4 to 6-5

**SECTION 6 TABLE OF CONTENTS**



**Introduction**

As a prime supplier to the Telecommunications industry, Radiall introduces an expanded range of Low PIM cable jumpers. These cost competitive jumpers provide excellent electrical and mechanical performance to support the demanding needs of the wireless installation market.

**FEATURES**

- Excellent electrical and mechanical performance
- Low passive intermodulation (PIM)
- Low return loss
- High shielding effectiveness
- High flexibility and tight bending radius
- Waterproof - meets or exceeds IP67
- 100% tested for PIM, VSWR and IL
- Black LSZH PE Jacket
- 1/2" and 3/8" superflexible corrugated cable types (\*\*)
- Available with 4.3-10, 7/16 and NEX10 connectors (\*\*)

**SPECIFICATIONS**

- $50\Omega \pm 2\Omega$
- DC ~ 3GHz
- VSWR: 1.15 max.
- PIM3:  $\leq -160\text{dBc}$  @ 1800MHz 2x20W  
Static & dynamic conditions (IEC 62037-2)
- Static bending radius: 27mm (1/2") - 25mm (3/8") cables
- Mechanical endurance: 100 Cycles
- Temperature range: -40 to +85°C
- RoHS Compliant

\*\* Other connector and cable styles available upon request.

## Introduction

Radiall's low intermodulation cable jumper solutions are suitable for indoor or outdoor cabling to base stations and antenna systems.



4.3-10 Straight  
Fig. 1



4.3-10 Right Angle  
Fig. 2



7/16 Straight  
Fig. 3



7/16 Right Angle  
Fig. 4

| Cable size     | Connector 1        | Fig. | Connector 2        | Fig. | Part number      |
|----------------|--------------------|------|--------------------|------|------------------|
| 1/2" S         | 4.3-10 Straight    | 1    | 4.3-10 Straight    | 1    | R296 702 807 xxx |
|                | 4.3-10 Straight    |      | 4.3-10 Right Angle | 2    | R296 702 808 xxx |
|                | 7/16 Straight      | 3    | 7/16 Straight      | 3    | R296 702 811 xxx |
|                | 7/16 Straight      |      | 7/16 Right Angle   | 4    | R296 702 812 xxx |
| 3/8" Superflex | 4.3-10 Straight    | 1    | 4.3-10 Straight    | 1    | R296 702 809 xxx |
|                | 4.3-10 Straight    |      | 4.3-10 Right Angle | 2    | R296 702 810 xxx |
|                | 4.3-10 Straight    |      | 7/16 Straight      | 3    | R296 702 815 xxx |
|                | 4.3-10 Straight    |      | 7/16 Right Angle   | 4    | R296 702 816 xxx |
|                | 4.3-10 Right Angle | 2    | 7/16 Straight      | 3    | R296 702 817 xxx |
|                | 4.3-10 Right Angle |      | 7/16 Right Angle   | 4    | R296 702 818 xxx |
|                | 7/16 Straight      | 3    | 7/16 Straight      | 3    | R296 702 813 xxx |
|                | 7/16 Straight      |      | 7/16 Right Angle   | 4    | R296 702 814 xxx |

| Length (m) | xxx | IL (Db) | Length     | xxx | IL   |
|------------|-----|---------|------------|-----|------|
| 0.5 ±0.01  | 005 | 0.23    | 4.5 ±0.09  | 045 | 1.26 |
| 1.0 ±0.02  | 010 | 0.36    | 5.0 ±0.10  | 050 | 1.39 |
| 1.5 ±0.03  | 015 | 0.49    | 5.5 ±0.11  | 055 | 1.52 |
| 2.0 ±0.04  | 020 | 0.62    | 6.0 ±0.12  | 060 | 1.65 |
| 2.5 ±0.05  | 025 | 0.75    | 7.0 ±0.14  | 070 | 1.91 |
| 3.0 ± 0.06 | 030 | 0.88    | 8.0 ±0.16  | 080 | 2.17 |
| 3.5 ± 0.07 | 035 | 1.01    | 9.0 ±0.18  | 090 | 2.43 |
| 4.0 ± 0.08 | 040 | 1.14    | 10.0 ±0.20 | 100 | 2.69 |