

# CommScope HELIAX 1/2" SureFlex Jumper with interface types 4.3-10 Male and 4.3-10 Male, 1m

SKU: ACC-CS-00099

MPN: F4A-HPHMHM-1M

## Description

The CommScope HELIAX 1/2" SureFlex Jumper (SKU: ACC-CS-00099) is a robust RF coaxial cable designed for large antenna systems, including passive Distributed Antenna Systems. This 1m jumper features 4.3-10 Male connectors on both ends, ensuring consistent performance with a straight body shape and free-hanging mounting style.

Constructed with a solid corrugated copper outer conductor, this 1/2" cable offers superior shielding effectiveness of 110 dB and low Passive Intermodulation (PIM) with a rating of -119 dBc. It supports an operating frequency range from 698 MHz to 3800 MHz, making it versatile for various applications. The cable's robust design withstands numerous mating cycles, ensuring reliable long-term use.

Performance metrics include a VSWR of  $\leq 1.07:1$  and a Return Loss of  $\leq 30.04$  dB at frequencies ranging from 698 MHz to 1700 MHz. At 2200 MHz, the VSWR is  $\leq 1.08:1$  with a Return Loss of  $\leq 27.99$  dB, and at 3400 MHz, a VSWR of  $\leq 1...$

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## RF Specification

|                               |          |  |          |
|-------------------------------|----------|--|----------|
| Start Frequency:              | 698 GHz  | Stop Frequency:  | 3800 GHz |
| COMMScope®<br>PIM, 3rd Order: | -119 dBc | CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of ... |          |
| VSWR Measurement              |          |  |          |

| Frequency | VSWR     | Return Loss |
|-----------|----------|-------------|
| 698 MHz   | ≤ 1.07:1 | ≤ 30.04 dB  |
| 1700 MHz  | ≤ 1.07:1 | ≤ 30.04 dB  |
| 2200 MHz  | ≤ 1.08:1 | ≤ 27.99 dB  |
| 3400 MHz  | ≤ 1.22:1 | ≤ 20.01 dB  |

## Physical Specification

|                            |                             |         |     |
|----------------------------|-----------------------------|---------|-----|
| Subtype:                   | Jumper Cable                | Length: | 1 m |
| Compliance/Certifications: | ISO 9001 Quality Management |         |     |
| RoHS                       |                             |         |     |

### RF Connectors

| RF Interface | Body Shape | Mounting     |
|--------------|------------|--------------|
| 4.3-10 Male  | Straight   | Free Hanging |
| 4.3-10 Male  | Straight   | Free Hanging |

## RSJ4-50

|                           |          |                 |          |
|---------------------------|----------|-----------------|----------|
| Min. Frequency:           | 0 GHz    | Max. Frequency: | 10.2 GHz |
| Impedance:                | 50       | Colour:         | Black    |
| Min. Bend Radius Static:  | 31.75 mm | Weight (g/m):   | 150 g    |
| Min. Bend Radius Dynamic: | 31.75 mm |                 |          |

### Cable Layers

| Layer           | Diameter | Materials                   |
|-----------------|----------|-----------------------------|
| Inner Conductor | 3.59 mm  | Copper Clad Aluminium (CCA) |
| Dielectric      | 9.42 mm  | Foamed Polyethylene (EPE)   |
| Outer Conductor | 11.99 mm | Corrugated Copper Tube      |
| Outer Jacket    | 13.41 mm | Polyethylene (PE)           |

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