



# Antennas

## DATA SHEET

### 1/2 Inch Corrugated RF Jumpers

JP5-88C50-tgtg-l



- Corrugated 1/2" low PIM jumpers
- 100% tested for PIM, return loss and insertion loss
- Low PIM performance less than -160 dBc
- UV and sunlight resistant black polyethylene jacket (Black)
- Available with 7-16 DIN, 4.3-10 and N-type male connectors

#### Overview

CCI's Corrugated Regular Jumpers are made using 1/2 inch corrugated cable with foam dielectric. These jumpers come in various lengths to enable the deployment of CCI antennas, filter and amplifier products. Each jumper assembly is constructed with premium 7/16-DIN, 4.3-10 or N-type male connectors installed on both ends. Custom assemblies and right-angle connectors are available upon request.

These cables are perfect for macro site antenna installation as well as DAS and BTS installations. Each cable is 100% tested and tagged with test results. The tests include V.S.W.R (return loss), insertion loss, and PIMD @2x43dBm. The cable assemblies fitted with the 7-16 or 4.3-10 connectors are rated IP68 for ingress protection.

CCI cable assemblies are produced to ISO 9001 certification standards for reliability and quality at our state-of-the-art engineering and manufacturing facilities.



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## SPECIFICATIONS

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#### Electrical Specifications

RF Parameter			
Frequency Range (MHz)	380 - 2700	3400 - 3800	5100 - 6000
VSWR	≤ 1.15	≤ 1.18	≤ 1.23
Return Loss (dB)	≤ 23	≤ 22	≤ 20
Intermodulation Performance	<-160 dBc at 2 x +43 dBm tones		
Impedance	50 ohm		
DC Test Voltage	2500 V		
Jacket Spark Test Voltage (rms)	5000 V		
Peak Power	15.6 kW		

Construction		
Jacket Material	UV and sunlight resistant black polyethylene	
Outer Conductor Material	Corrugated copper	
Dielectric Material	Foam Polyethylene	
Flexibility	Corrugated	
Inner Conductor Material	Copper-clad wire	
Jacket Color	Black	

#### Mechanical Specifications

Nominal Diameter	0.500 in (12.7 mm)
Length	≥ 0.5 m
Minimum Bend Radius	17mm/1time 55mm/15times
Number of Bends, minimum	15
Tensile Strength	79 kg (175 lb)



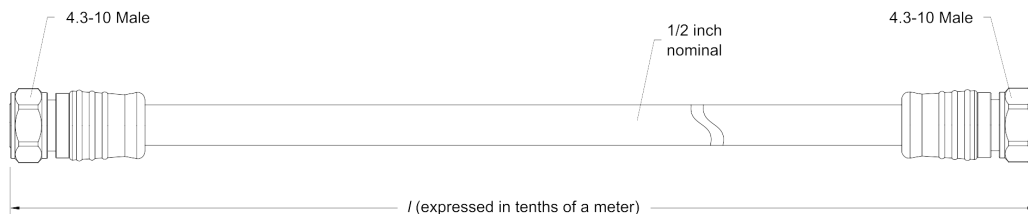
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## SPECIFICATIONS

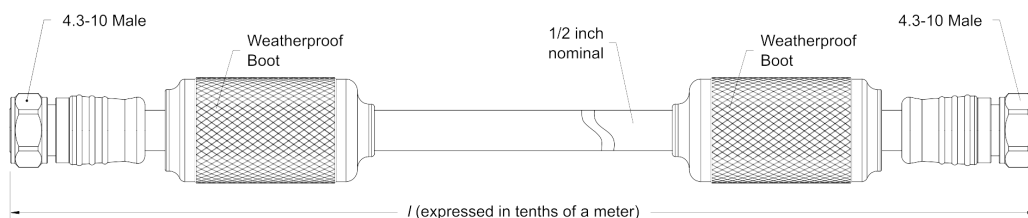
### 1/2 Inch Corrugated RF Jumpers

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**Model Number:** JP5-88C50-2M2M-l



**Model Number:** JP5-88CB50-2M2M-l



Both models shown with 4.3-10 Connectors

1/2 inch Corrugated Jumper Outline Drawing with Male to Male connectors

## Environmental Specifications

Environmental Testing	PR012 Compliant
Installation Temperature	-40° C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-40° C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-40° C to +85 °C (-40 °F to +185 °F)
Weatherproofing standard	IEC 60529:2001, IP68



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## ORDERING

### 1/2 Inch Corrugated RF Jumpers

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#### Parts & Accessories

JP5-88C50-1M1M-l	7/16 Male to 7/16 Male 1/2" Corrugated Jumper
JP5-88CB50-1M1M-l	7/16 Male to 7/16 Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-1M1MR-l	7/16 Male to 7/16 Male Right Angle 1/2" Corrugated Jumper
JP5-88C50-1MR1MR-l	7/16 Male Right Angle to 7/16 Male Right Angle 1/2" Corrugated Jumper
JP5-88C50-2M2M-l	4.3/10 Male to 4.3/10 Male 1/2" Corrugated Jumper
JP5-88CB50-2M2M-l	4.3/10 Male to 4.3/10 Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-2M2MR-l	4.3/10 Male to 4.3/10 Male Right Angle 1/2" Corrugated Jumper
JP5-88C50-2MR2MR-l	4.3/10 Male Right Angle to 4.3/10 Male Right Angle 1/2" Corrugated Jumper
JP5-88C50-3M3M-l	N-Type Male to N-Type Male 1/2" Corrugated Jumper
JP5-88CB50-3M3M-l	N-Type Male to N-Type Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-1M3M-l	7/16 Male to N-Type Male 1/2" Corrugated Jumper
JP5-88CB50-1M3M-l	7/16 Male to N-Type Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-2M3M-l	4.3/10 Male to N-Type Male 1/2" Corrugated Jumper
JP5-88CB50-2M3M-l	4.3/10 Male to N-Type Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-2M1M-l	4.3/10 Male to 7/16 Male 1/2" Corrugated Jumper
JP5-88CB50-2M1M-l	4.3/10 Male to 7/16 Male 1/2" Corrugated Jumper w/ weatherproof boot
JP5-88C50-2MR1M-l	4.3/10 Male Right Angle to 7/16 Male 1/2" Corrugated Jumper
JP5-88C50-2MR1MR-l	4.3/10 Female to 7/16 Male 1/2" Corrugated Jumper
JP5-88C50-2M1F-l	4.3/10 Male to 7/16 Female 1/2" Corrugated Jumper
JP5-88C50-2MR1F-l	4.3/10 Male Right Angle to 7/16 Female 1/2" Corrugated Jumper
JP5-88C50-2FR1M-l	4.3/10 Female Right Angle to 7/16 Male 1/2" Corrugated Jumper

#### Option (-l) Description

-05	Length 0.5 meter (1.6 feet)
-10	Length 1.0 meter (3 feet)
-15	Length 1.5 meter (5 feet)
-20	Length 2.0 meter (6 feet)
-25	Length 2.5 meter (8.2 feet)
-30	Length 3.0 meter (10 feet)
-35	Length 3.5 meter (11.5 feet)
-40	Length 4.0 meter (13 feet)
-45	Length 4.5 meter (14.8 feet)
-50	Length 5.0 meter (16 feet)
-55	Length 5.5 meter (18 feet)
-60	Length 6.0 meter (20 feet)
-65	Length 6.5 meter (21.3 feet)
-70	Length 7.0 meter (23 feet)



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## STANDARDS & CERTIFICATIONS

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### Standards & Compliance

**Environmental** IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-02-30, IEC 60068-2-52, GR-63-CORE 4.3.1, EN 60529 IP68

### Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001

