



Antennas

DATA SHEET

1/2 Inch Flexible RF Jumpers

JP5-88F50-tgtg-l



- Flexible 1/2" low PIM jumpers
- 100% tested for PIM, return loss and insertion loss
- Low PIM performance less than -156 dBc
- Superflexible enabling easy installation
- UV and sunlight resistant black polyethylene jacket (Black)
- Available with 7-16 DIN, 4.3-10 and N-type male connectors
- Product Specification OG-201611-NBRFA-RFP-Encl-B2-TSOC-Jumpers_V2

Overview

CCI's Flexible Regular Jumpers are made using 1/2 inch super flexible 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

1/2 Inch Flexible RF Jumpers

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Electrical Specifications

RF Parameter			
Frequency Range (MHz)	380 - 2700	3400 - 3800	5100 - 6000
VSWR	≤ 1.065	≤ 1.152	≤ 1.196
Return Loss (dB)	≤ 30	≤ 23	≤ 21
Intermodulation Performance	<-113 dBm (-156 dBc) at 2 x +43 dBm tones		
Impedance	50 ohm		
Capacitance	82.7 pF/m (25.2 pF/ft)		
DC Resistance, Inner Conductor	2.690 ohms/km (0.820 ohms/kft)		
DC Resistance, Outer Conductor	3.281 ohms/km (1.000 ohms/kft)		
DC Test Voltage	2500 V		
Inductance	0.207 H/m (0.063 H/ft)		
Insulation Resistance	100000 Mohms•km		
Jacket Spark Test Voltage (rms)	5000 V		
Peak Power	15.6 kW		
Velocity	81 %		
Linked Product Specification	OG-201611-NBRFA-RFP-Encl-B2-TSOC-Jumpers_V2		

Construction	
Jacket Material	UV and sunlight resistant black polyethylene
Outer Conductor Material	Corrugated copper
Dielectric Material	Foam Polyethylene
Flexibility	Superflexible
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	< 32.0 mm (2.0 in)
Number of Bends, minimum	20
Tensile Strength	79 kg (175 lb)



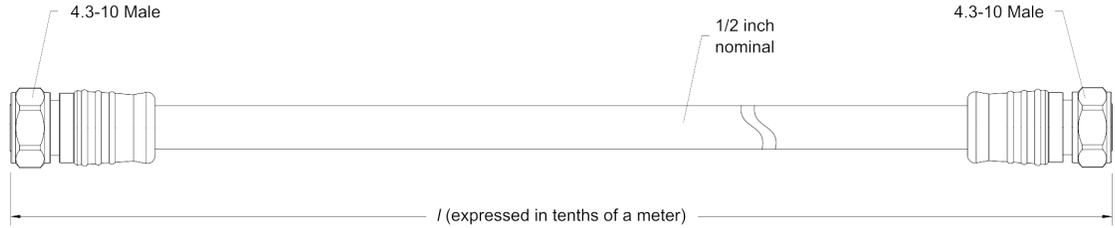
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SPECIFICATIONS

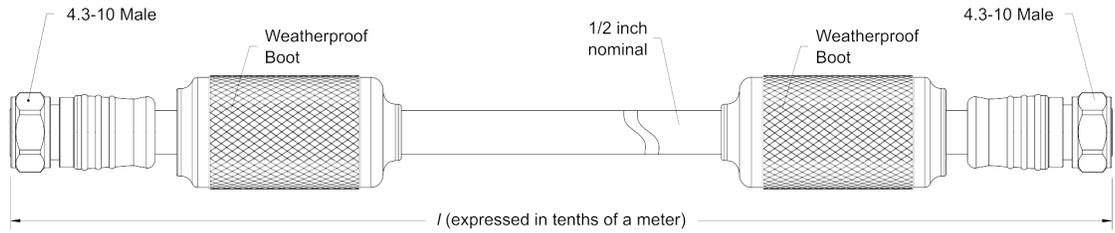
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Model Number: JP5-88F50-2M2M-l



Model Number: JP5-88FB50-2M2M-l



Both models shown with 4.3-10 Connectors

1/2 inch Flexible 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	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Weatherproofing standard	IEC 60529:2001, IP68



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ORDERING

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Parts & Accessories

JP5-88F50-1M1M-l	7/16 Male to 7/16 Male 1/2" Flexible Jumper
JP5-88FB50-1M1M-l	7/16 Male to 7/16 Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-1M1MR-l	7/16 Male to 7/16 Male Right Angle 1/2" Flexible Jumper
JP5-88F50-1MR1MR-l	7/16 Male Right Angle to 7/16 Male Right Angle 1/2" Flexible Jumper
JP5-88F50-2M2M-l	4.3/10 Male to 4.3/10 Male 1/2" Flexible Jumper
JP5-88FB50-2M2M-l	4.3/10 Male to 4.3/10 Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2M2MR-l	4.3/10 Male to 4.3/10 Male Right Angle 1/2" Flexible Jumper
JP5-88F50-2MR2MR-l	4.3/10 Male Right Angle to 4.3/10 Male Right Angle 1/2" Flexible Jumper
JP5-88F50-3M3M-l	N-Type Male to N-Type Male 1/2" Flexible Jumper
JP5-88FB50-3M3M-l	N-Type Male to N-Type Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-1M3M-l	7/16 Male to N-Type Male 1/2" Flexible Jumper
JP5-88FB50-1M3M-l	7/16 Male to N-Type Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2M3M-l	4.3/10 Male to N-Type Male 1/2" Flexible Jumper
JP5-88FB50-2M3M-l	4.3/10 Male to N-Type Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2M1M-l	4.3/10 Male to 7/16 Male 1/2" Flexible Jumper
JP5-88FB50-2M1M-l	4.3/10 Male to 7/16 Male 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2MR1M-l	4.3/10 Male Right Angle to 7/16 Male 1/2" Flexible Jumper
JP5-88F50-2MR1MR-l	4.3/10 Male Right Angle to 7/16 Male Right Angle 1/2" Flexible Jumper
JP5-88FB50-2MR1MR-l	4.3/10 Male Right Angle to 7/16 Male Right Angle 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2M1MR-l	4.3/10 Male to 7/16 Male Right Angle 1/2" Flexible Jumper
JP5-88FB50-2M1MR-l	4.3/10 Male to 7/16 Male Right Angle 1/2" Flexible Jumper w/ weatherproof boot
JP5-88F50-2M1F-l	4.3/10 Male to 7/16 Female 1/2" Flexible Jumper
JP5-88F50-2MR1F-l	4.3/10 Male Right Angle to 7/16 Female 1/2" Flexible Jumper
JP5-88FB50-2FR1M-l	4.3/10 Female Right Angle to 7/16 Male 1/2" Flexible 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



CCI

Communication Components Inc.

EXTENDING WIRELESS PERFORMANCE