



CASPF250003-2FT

Configuration

• Connector 1: 4.3-10 Female

· Connector 2: N Male

Cable Type: SPF-250

Features

· Max Frequency 5.8 GHz

. Low PIM: -160 dBc Max

FRPE Jacket

• Shielding Effectivity > 100 dB

• 100% Tested with PIM Test Results Marked on Cable

• 1.25 Inch Minimum Bend Radius

· Low Loss with Excellent VSWR

Applications

- Distributed Antennas Systems (DAS)
- · Low PIM Applications

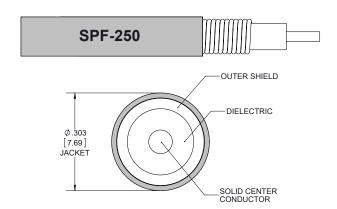
- · Fire Rated Installations
- Multi-Carrier Communication Systems

Description

PolyPhaser CASPF250003-2FT is a 2 FT Fire Rated 4.3-10 to Type N F/M SPF-250 Low PIM Cable Jumper built using high quality components by skilled technicians to ensure a reliable product. The 4.3-10 Female to Type N Male jumper connections are designed to industry standard interface dimensions to ensure superior performance. These low PIM corrugated cable assemblies are durable and fire rated for applications that require these parameters. All PolyPhaser cable assemblies are available for same day shipment to fulfill your urgent needs. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as low PIM applications, fire rated installations, distributed antenna systems (DAS), and many other RF systems. The CASPF250003-2FT 4.3-11 to Type N low PIM cable assembly is the perfect companion to PolyPhaser line of products, particularly when used as an

Each cable assembly is installed with heat shrink booting on each end and a PIM label with the measured PIM level. You can find detailed performance specifications in the product datasheet. All PolyPhaser assemblies are tested and inspected prior to shipping.

antenna jumper. The quarter inch low PIM fire rated coax used in these 4.3-11 to Type N assemblies is a .250 inch diameter copper corrugated coax with a black FRPE jacket. This cable's foam PE dielectric is low loss material with a phase velocity of 83% and offers excellent passive intermodulation (PIM) performance better than -160 dBc. The construction of the quarter inch copper corrugated jumper results in a minimum bend radius of 1.25 inches. The cable assembly's combination of 4.3-11 to Type N F/M and Times Microwave's SPF-251 low PIM plenum rated cable supports a maximum operation frequency of 5.8 GHz.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 FT Fire Rated 4.3-10 to Type N F/M SPF-250 Low PIM Cable Jumper CASPF250003-2FT





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
_ Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.21	0.26	0.32	0.52	0.81	dB

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

 Length
 24 in [609.6 mm]

 Diameter
 0.78 in [19.81 mm]

 Weight
 0.3 lbs [136.08 g]

Cable

Cable TypeSPF-250Impedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type Foam PE Number of Shields 1

Shield Layer 1 Helically Corrugated Copper Tube

Outer Conductor Material and Plating Copper
Jacket Material FRPE, Black
Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm]

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Bending Moment

0.5 lbs-ft [0.68 N-m]

Connectors

4.3-10 Female 50 Ohms Phosphor Bronze, Silver 200 µin	N Male 50 Ohms 500 Brass, Silver
Phosphor Bronze, Silver	500 Brass, Silver
	Brass, Silver
	·
200 µin	200 uin
	200 μin
PTFE	PTFE
Brass, Tri-Metal	
80 µin	
Brass, Tri-Metal	Brass, Tri-Metal
80 µin	80 μin
	Brass, Tri-Metal
	80 μin
	9.74 in-lbs [1.1 Nm]
	PTFE Brass, Tri-Metal 80 µin Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C Storage Range -55 to +200 deg C

Environmental Specification Notes:

CMR (Riser) Fire Rated

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Compliance Certifications

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: https://www.polyphaser.com/2-ft-fire-rated-4.3-10-to-type-n-f-m-spf-250-low-pim-cable-jumper-p.aspx

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CASPF250003-2FT CAD Drawing

