

Fire Rated N Male to N Female Bulkhead Low PIM Cable 200 CM Length Using SPF-250 Coax Using Times Microwave Parts



RF Cable Assemblies Technical Data Sheet

ET29006

Configuration

Connector 1: N Male

Connector 2: N Female Bulkhead

Cable Type: SPF-250

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

OUTER SHIELD OUTER SHIELD DIELECTRIC SOLID CENTER CONDUCTOR

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- CMR Riser Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication
 Systems
- PIM Testing

Description

Ebeestock's ET29006 type N male to type N female bulkhead 200 cm cable using SPF-250 coax is part of our full line of RF components available for same-day shipping. Ebeestock's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Ebeestock type N to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPF-250 coax. The ET29006 type N male to type N female cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation			-160	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Fire Rated N Male to N Female Bulkhead Low PIM Cable 200 CM Length Using SPF-250 Coax Using Times Microwave Parts ET29006



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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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.3	0.43	0.61	1	1.58	dB

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Length* 78.74 in [200 cm]
Diameter 0 in [0 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
SPF-250
50 Ohms
Solid

Inner Conductor Material and Plating

Copper Clad Aluminum

Foam PE

Dielectric Type

Number of Shields

1

Outer Conductor Material and Plating

Copper

Jacket Material

Jacket Diameter

Copper

FRPE, Black

0.303 in [7.7 mm]

One Time Minimum Bend Radius
1.25 in [31.75 mm]
Bending Moment
0.5 lbs-ft [0.68 N-m]

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Connectors

Description	Connector 1	Connector 2	
Type	N Male	N Female Bulkhead	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver	
Contact Plating Specification	196 µin	196 µin	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Outer Conductor Plating Specification		118 µin	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	118 µin	118 µin	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	118 µin		
Torque	7.08 in-lbs [0.8 Nm]	6 in-lbs [0.68 Nm]	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

ET3C8492 - xx uu

Unit of Measure:

cm = Centimeters

chlank> = Inches

Base Number

Example: ET3C8492-12 = 12 inches long cable

ET3C8492-100cm = 100 cm long cable

Fire Rated N Male to N Female Bulkhead Low PIM Cable 200 CM Length Using SPF-250 Coax Using Times Microwave Parts from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.ebeestock.com/fire-rated-n-male-to-n-female-bulkhead-low-pim-cable-12-inch-len gth-using-spf-250-coax-using-times-microwave-parts-0028998

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