

NEX10 Male to 7/16 DIN Female Low PIM Cable Using 1/4 inch Superflexible Coax

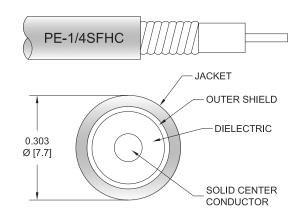
PE3W14438

Configuration

Connector 1: NEX10 Male
Connector 2: 7/16 DIN Female
Cable Type: 1/4" Superflexible
Coax Flex Type: Corrugated

Features

- Max Frequency 6 GHz
 Low PIM: -160 dBc Max
 Shielding Effectivity > 120 dB
- 82% Phase Velocity
- · PE Jacket



Applications

· General Purpose

· Laboratory Use

· Low PIM Applications

Description

Pasternack's PE3W14438 NEX10 male to 7/16 DIN female cable using 1/4 inch superflexible coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack NEX10 to 7/16 DIN cable assembly has a male to female gender configuration with 50 ohm corrugated 1/4" superflexible coax. The PE3W14438 NEX10 male to 7/16 DIN female cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		24.4 [80.05]		pF/ft [pF/m]
Inductance		0.059 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.53 [8.3]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (AC)			750	Vrms



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number	Length	Frequency	100	250	500	1000	3000	MHz	
PE3W14438	Custom Lengths	Insertion Loss (Typ.)	0.016	0.027	0.039	0.058	0.107	dB/ft	
F L3W14438	Available	ilisertion Loss (Typ.)	0.06	0.09	0.13	0.2	0.36	dB/m	
PE3W14438-12	12 inch	Insertion Loss (Typ.)	0.22	0.23	0.24	0.26	0.31	dB	0.252
PE3W14438-24	24 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.32	0.42	dB	0.294
PE3W14438-36	36 inch	Insertion Loss (Typ.)	0.25	0.29	0.32	0.38	0.53	dB	0.336
PE3W14438-48	48 inch	Insertion Loss (Typ.)	0.27	0.31	0.36	0.44	0.63	dB	0.378
PE3W14438-60	60 inch	Insertion Loss (Typ.)	0.28	0.34	0.4	0.49	0.74	dB	0.42

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the

Loss due to Connector 1: 0.1 dB 0.1 dB Loss due to Connector 2: Base Weight: 0.252 pounds 0.0035 pounds Additional Weight per Inch:

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm] Weight 0.252 lbs [114.31 g]

Cable

Cable Type 1/4" Superflexible

Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE(F) Number of Shields

Shield Layer 1 Helically Corrugated Copper Tube Jacket Material PE, Black

Jacket Diameter 0.303 in [7.7 mm] One Time Minimum Bend Radius 0.5 in [12.7 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm] 20

Typical Flex Cycles

Tensile Strength 79 lbs [35.83 Kg]



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Connectors

Description	Connector 1	Connector 2	
Туре	NEX10 Male	7/16 DIN Female	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Brass, Silver	Beryllium Copper, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal		

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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Typical Performance Data

How to Order



Example: PE3W14438-12 = 12 inches long cable

PE3W14438-100cm = 100 cm long cable

NEX10 Male to 7/16 DIN Female Low PIM Cable Using 1/4 inch Superflexible Coax from Pasternack 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: NEX10 Male to 7/16 DIN Female Low PIM Cable Using 1/4 inch Superflexible Coax PE3W14438

URL: https://www.pasternack.com/nex10-male-to-7-16-din-female-low-pim-cable-using-1-4-inch-superflexible-pe3w14438-p.aspx

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