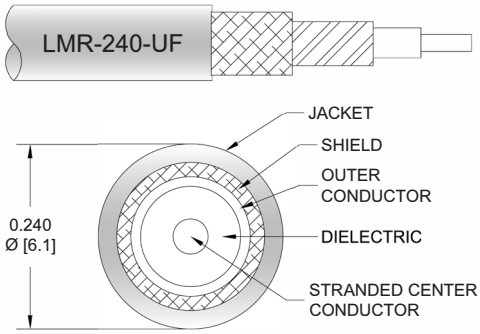
SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-240-UF Coax

PE3W06424

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible



Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06424 SMA male right angle to TNC male cable using LMR-240-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W06424 SMA male to TNC male cable assembly operates to 8 GHz. The right angle SMA interface on the LMR-240-UF cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3W06424	Custom Lengths Available	Insertion Loss (Typ.)	0.066	0.096	0.138	0.155	0.244	dB/ft	
			0.22	0.32	0.46	0.51	0.81	dB/m	
PE3W06424-12	12 inch	Insertion Loss (Typ.)	0.37	0.4	0.44	0.46	0.55	dB	0.106
PE3W06424-24	24 inch	Insertion Loss (Typ.)	0.44	0.5	0.58	0.61	0.79	dB	0.139
PE3W06424-36	36 inch	Insertion Loss (Typ.)	0.5	0.59	0.72	0.77	1.04	dB	0.171
PE3W06424-60	60 inch	Insertion Loss (Typ.)	0.63	0.78	0.99	1.08	1.52	dB	0.235
PE3W06424-300	300 inch	Insertion Loss (Typ.)	1.95	2.7	3.75	4.18	6.4	dB	0.875

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

Loss due to Connector 1:	0.2	dB
Loss due to Connector 2:	0.1	dB
Base Weight:	0.106	pounds
Additional Weight per Inch:	0.00267	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.106 lbs [48.08 g]

Cable

Cable Type	LMR-240-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	TPE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µinch
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Brass, Tri-Metal
Body Plating Specification	3 µin minimum	80 µinch
Coupling Nut Material and Plating	Brass, Gold	Brass, Tri-Metal
Coupling Nut Plating Specification	3 µin minimum	80 µinch
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	8 in-lbs 0.9 Nm

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

Part Number Configuration: **PE3W06424 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W06424 — Base Number

Example: PE3W06424-12 = 12 inches long cable
PE3W06424-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-240-UF 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: SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-240-UF Coax PE3W06424

URL: https://www.pasternack.com/sma-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-240-uf-pe3w06424-p.aspx

PE3W06424 CAD Drawing

SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-240-UF Coax