



RF Cable Assemblies Technical Data Sheet

PE3M0124-60

Configuration

 Connector 1: M39012/26-0010(TNC Male) Connector 2: M39012/26-0010(TNC Male)

• Cable: M17/28-RG058

Features

- Max Frequency 1 GHz
- 65.9% Phase Velocity
- PVC Jacket
- · Lot Traceability
- · J-STD-Soldering
- · Qualified (QPL) cable and connectors
- RF Test Plots
- Test Report
- · In stock and ready to ship

Applications

Hi-Rel

Avionics

• MIL-DTL-17 Requirements

ECM

SATCOM

Description

Pasternack's MIL-DTL-17 cable assemblies are part of our full line of reliable RF components available for same-day shipping. These commercial-off-the-shelf (COTS), military grade cable assemblies are designed and processed with high reliability in mind. MIL-PRF-39012 connectors and MIL-C-17 coaxial cable are assembled using J-STD soldering processes and WHMA-A-620 workmanship criteria. The combination of materials, processing and acceptance testing work together to create a dependable cable assembly for applications where performance over time is important or the cost of failure is high. Each finished MIL-DTL-17 cable assembly is traceable to its component lots and a test report is available for every lot produced.

Our MIL-DTL-17 cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide reliable mil-spec connections or fielding dependable RF cable assemblies, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Referenced Specifications

IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies MIL-DTL-17 Cables, Radio Frequency, Flexible and Semirigid, General Specification for

MIL-STD-348 Radio Frequency Connector Interfaces for MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-

DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF...

MIL-PRF-39012 Connectors, Coaxial, Radio Frequency, General Specification for IPC J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies

IPC J-STD-006 Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for

Electronic Soldering Applications

SAE AS5942 Marking of Electrical Insulating Materials

SAE AS23053 Insulation Sleeving, Electrical, Heat Shrinkable, General Specifications For

Crimping Tools, Wire Termination, General Specification For **SAE AS22520**

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MIL-DTL-17 TNC Male to TNC Male Cable 60 Inch Length Using M17/28-RG58 Coax PE3M0124-60

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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Material Specifications

Component	Specification
Cable	M17/28-RG058 in accordance with MIL-DTL-17
Connector 1	M39012/26-0010 in accordance with MIL-PRF-39012
Connector 2	M39012/26-0010 in accordance with MIL-PRF-39012
Heat Shrink 1	M23053/5-106-0 in accordance with SAE AS23053
Heat Shrink 2	M23053/5-106-0 in accordance with SAE AS23053
Solder	SN63 in accordance with J-STD-006

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC	A	1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
Capacitance		32.2 [105.64]		pF/ft [pF/m]
DC Resistance Inner Conductor		0.97 [3.18]		Ω/1000ft [Ω/Km]
Dielectric Withstanding Voltage (AC)			1,500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	400	1,000		MHz
Insertion Loss (Max.)	0.23	0.37	0.93	1.52		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.06*SQRT(GHz) dB maximum per connector.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length*	60 [152.4]	60 [152.4]	61 [154.94]	in [cm]
Cable Outer Diameter	0.191	0.195	0.199	in
Weight			0.25 [113.4]	lbs [g]

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*Length Tolerances: +0.5, -0 inches for Length >1 foot; +1, -0 inches for Length >1 to 5 feet; +2, -0 inches for Length >5 to 10 feet; +3, -0 inches for Length >10 to 25 feet and +2%, -0 inches for Length >25 feet.

Cable Characteristics

Description	Specification
Cable Type	M17/28-RG058
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Tinned Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper
Outer Conductor Diameter	0.15 in [3.81 mm]
Jacket Material	PVC

Connector Characteristics

Description	Connector 1	Connector 2
Туре	TNC Male	TNC Male
Specification	MIL-PRF-39012	MIL-PRF-39012
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass	Brass
Seal Gasket Material	Silicone Rubber	Silicone Rubber
Contact Gage Specification	0.210 to 0.230 in	0.210 to 0.230 in
Insulator Gage Specification	0.208 to 0.228 in	0.208 to 0.228 in

Mechanical Specification Notes:

Environmental Specifications

Description	Specification	
Temperature Operating Range	-40 to +85 deg C	

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Compliance Certifications (see product page for current document)

Process Specifications

Process	Specification
Soldering	in accordance with J-STD-001, class 3
Crimping	dies in accordance with SAE AS22520
Marking	shall meet the adherence requirements of SAE AS5942
Workmanship	shall be in accordance with IPC/WHMA-A-620, class 3

Tests and Inspections

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Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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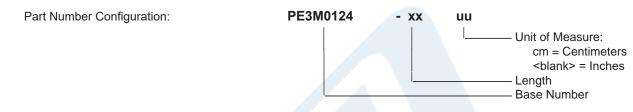




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How to Order



Example: PE3M0124-12 = 12 inches long cable PE3M0124-100cm = 100 cm long cable

MIL-DTL-17 TNC Male to TNC Male Cable 60 Inch Length Using M17/28-RG58 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.

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URL: https://www.pasternack.com/tnc-male-tnc-male-m17-28-rg58-cable-assembly-pe3m0124-60-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3M0124-60 CAD Drawing
MIL-DTL-17 TNC Male to TNC Male Cable 60 Inch Length Using M17/28-RG58 Coax

