

MIL-DTL-17 N Male to SMA Male Cable 72 Inch Length Using M17 1128-ET-RG400 Coax



RF Cable Assemblies Technical Data Sheet

ET29394

Configuration

 Connector 1: M39012/01-0503(N Male) Connector 2: M39012/55-3028(SMA Male)

Cable: M17/128-ET-RG400

Features

- Max Frequency 11 GHz
- 69.5% Phase Velocity
- Double Shielded
- Lot Traceability
- J-STD-Soldering
- Qualified (QPL) cable and connectors
- RF Test Plots
- Test Report
- In stock and ready to ship

MIL-DTL-17 Requirements

Applications

Hi-Rel

- Avionics
- IFF

- SATCOM
- ECM

Description

Ebeestock'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. Ebeestock'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, Ebeestock has the right cable assemblies for the job. Ebeestock can also expertly build your custom cable assemblies for you and ship same day.

Referenced Specifications

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

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

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

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

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

Electronic Soldering Applications Marking of Electrical Insulating Materials

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

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 N Male to SMA Male Cable 72 Inch Length Using M17/128-ET-RG400 Coax ET29394

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SAE AS5942



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Material Specifications

Component	Specification
Cable	M17/128-ET-RG400 in accordance with MIL-DTL-17
Connector 1	M39012/01-0503 in accordance with MIL-PRF-39012
Connector 2	M39012/55-3028 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		11	GHz
VSWR			1.6:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		0.91 [2.99]		Ω/1000ft [Ω/Km]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	3	10	11	GHz
Insertion Loss (Max.)	0.77	1.18	2.49	4.97	5.28	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 for the SMA Male connector and 0.1 dB for the N Male connector.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length*	72 [182.88]	72 [182.88]	74 [187.96]	in [cm]
Cable Outer Diameter	0.19	0.195	0.2	in
Weight			0.43 [195.04]	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

Cable TypeM17/128-ET-RG400Impedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper Clad Steel, SilverDielectric TypePTFENumber of Shields2
Inner Conductor Type Inner Conductor Material and Plating Copper Clad Steel, Silver Dielectric Type PTFE
Inner Conductor Material and Plating Copper Clad Steel, Silver Dielectric Type PTFE
Dielectric Type PTFE
Number of Shields 2
Shield Layer 1 Silver Clad Copper
Shield Layer 2 Silver Clad Copper
Outer Conductor Diameter 0.171 in [4.34 mm]

Connector Characteristics

Description	Connector 1	Connector 2
Туре	N Male	SMA Male
Specification	MIL-PRF-39012	MIL-PRF-39012
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Silver	Passivated Stainless Steel
Body Plating Specification	QQ-S-365	
Coupling Nut Material and Plating		Passivated Stainless Steel
Seal Gasket Material	Silicone Rubber	Silicone Rubber
Contact Gage Specification	0.210 in min	0.000 in min
Insulator Gage Specification		0.000 in min

Mechanical Specification Notes:

Environmental Specifications

Description	Specification
Temperature Operating Range	-55 to +165 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, class3
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

Sampling	
100%	
100%	
100%	
100%	
100%	
C=0, 1.5AQL	
C=0, 1.5AQL	
	100% 100% 100% 100% C=0, 1.5AQL

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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How to Order

ET3M0070 Part Number Configuration: - XX -Unit of Measure: cm = Centimeters <black> = Inches Length Base Number

ET3M0070-12 = 12 inches long cable Example:

ET3M0070-100cm = 100 cm long cable

MIL-DTL-17 N Male to SMA Male Cable 72 Inch Length Using M17/128-ET-RG400 Coax 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.

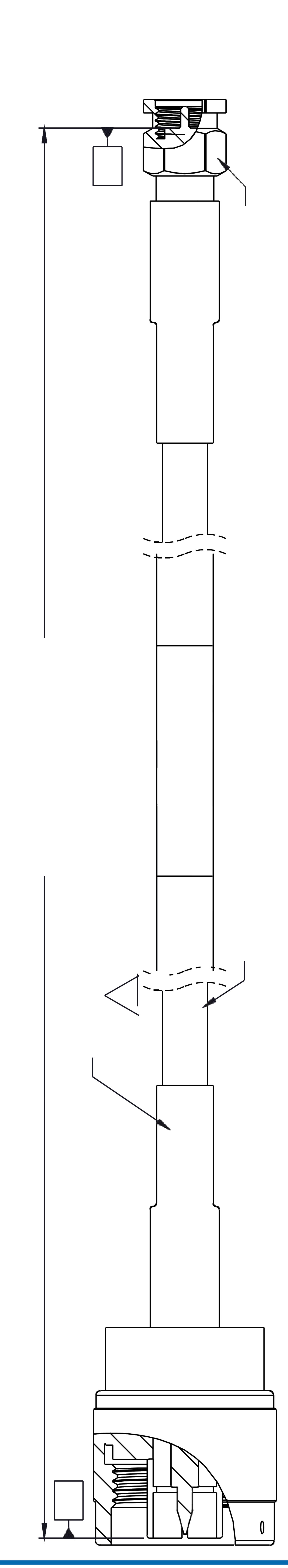
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URL: https://www.ebeestock.com/mil-dtl-17-n-male-to-sma-male-cable-12-inch-length-using-m17-128 -rg400-coax-0029387

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1. UNLESS OTHERWISE SPECIFIEI
2. ALL SPECIFICATIONS ARE SUB,
3. DIMENSIONS ARE IN INCHES [m

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