



### RF Cable Assemblies Technical Data Sheet

ET28955

OUTER SHIELD

DIELECTRIC

SOLID CENTER

CONDUCTOR

## Configuration

Connector 1: N Male
Connector 2: N Male
Cable Type: SPO-250

# Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- 500 Mating Cycles
- 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

# • Distributed Antenna Systems

- Multi-Carrier Communication
   Systems
- PIM Testing

SPO-250

Ø.303

[ 7.69 <sup>†</sup>

**JACKET** 

## Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

# (DAS)

## Description

Ebeestock's ET28955 type N male to type N male 48 inch cable using SPO-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 male gender configuration with 50 ohm corrugated SPO-250 coax. The ET28955 type N male to type N male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Outdoor Rated N Male to N Male Low PIM Cable 48 Inch Length Using SPO-250 Coax Using Times Microwave Parts ET28955

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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
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	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.3	0.38	0.45	0.73	1.15	dB

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax 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\* 48 in [121.92 cm]
Diameter 0.63 in [16 mm]

#### Cable

Cable Type
Impedance
Inner Conductor Type

SPO-250
50 Ohms
Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type

Foam PE

Number of Shields

Shield Layer 1

Helically Corrugated Copper Tube

Outer Conductor Material and Plating

Copper
Jacket Material
PE, Black
Jacket Diameter

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 Male	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Contact Plating Specification	200 μin	200 μin	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	80 μin	80 μin	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Plating Specification	80 μin	80 μin	
Torque	9.74 in-lbs [1.1 Nm]	9.74 in-lbs [1.1 Nm]	

Mechanical Specification Notes:

#### **Environmental Specifications**

Temperature

Operating Range -55 to +200 deg C Storage Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

Values at 25°C, sea level.

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

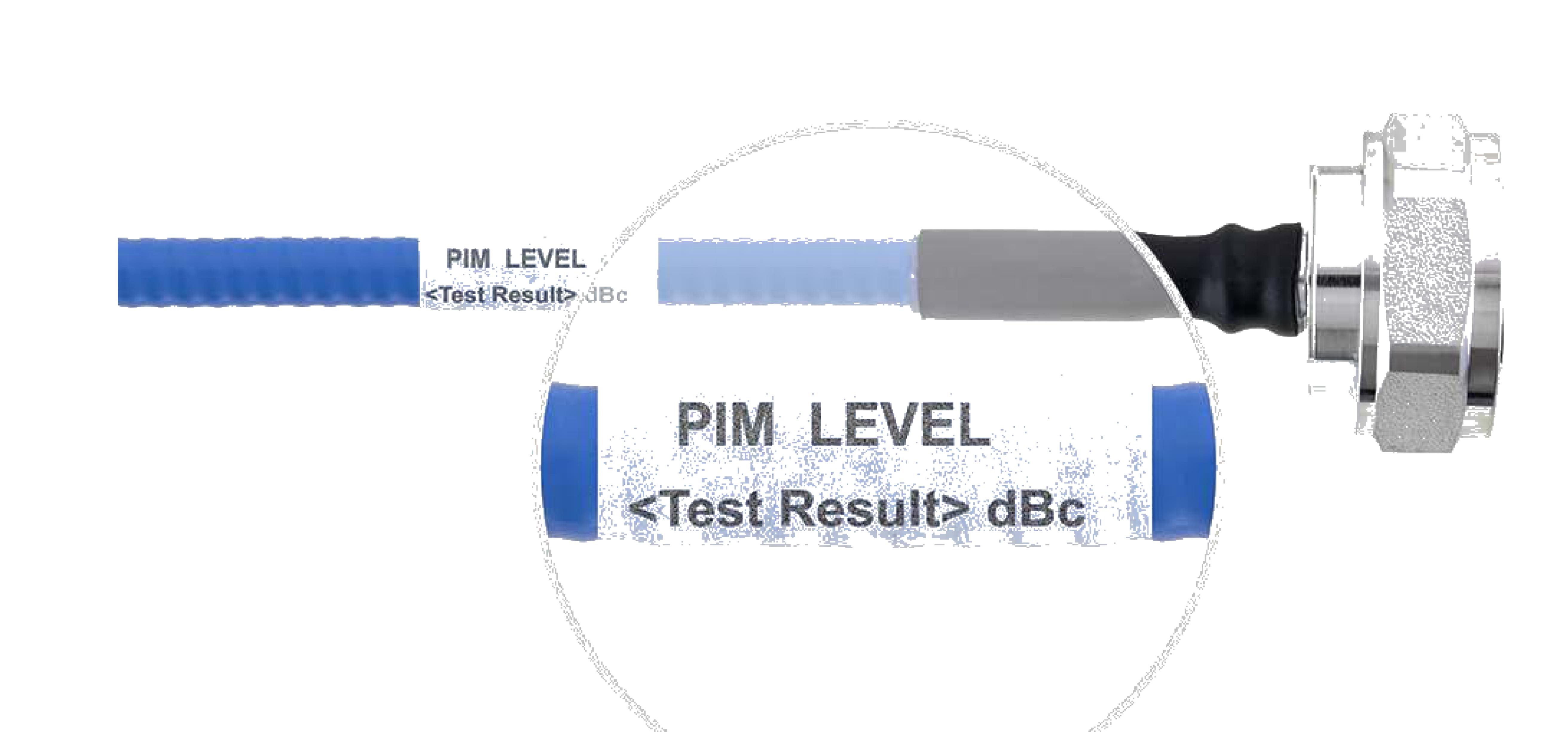




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Typical Performance Data

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## RF Cable Assemblies Technical Data Sheet

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#### How to Order

Part Number Configuration:

ET3C6345
- xx uu

Unit of Measure:

cm = Centimeters

<br/>
<br/>
<br/>
<br/>
chlank> = Inches

Base Number

Example: ET3C6345-12 = 12 inches long cable ET3C6345-100cm = 100 cm long cable

Outdoor Rated N Male to N Male Low PIM Cable 48 Inch Length Using SPO-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/outdoor-rated-n-male-to-n-male-low-pim-cable-12-inch-length-usin g-spo-250-coax-using-times-microwave-parts-0028952

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. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

