



**MRG5801**

Part Number: MRG5801

COAX RF MRG5801 FRNC/LSNH

**Product Description**

COAX RF MRG5801 FRNC/LSNH

**Product Specifications**

**Application**

Application 1:	Coaxial communication cable based on MIL-C-17
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**Technical Specifications**

**Bend Radius**

Min Bend Radius (W/o Pulling Strength):	25 mm
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**CCB-Sub-Crush Resistance**

Crush Resistance:	Max. 1% (load of 700N) N
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**CCB-Sub-Material**

Min Elongation at Break of Jacket:	125 MPa
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Min Tensile Strength of Jacket:	9 lbs
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**EMEA Standard**

CENELEC Compliance:	EN 50289
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**Environmental Characteristics**

Operating Temp Range:	-30 to +70 °C
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Storage Temp Range:	-30 to +70 °C
Installation Temp Range:	-5 to +50 °C

## General Electrical Parameters

Min Insulation Resistance:	10000 mOhm/1000ft
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## History

Revision Date:	2012-07-10
Revision Number:	6

## North American Standard

MIL Spec Rating:	MIL-C-17
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## Safety

ISO/IEC Flammability:	IEC 60332-1-2
Smoke Density; Min Transmittance:	Zero N
Amt of Halogen IEC 60754-1 /EN50267-1:	Zero

### Impedance:

Nominal Characteristic Impedance		
50 mOhm/ft	2 Ohm	Min. 40 dB

### Conductor DCR:

Max. Conductor DCR
40.6 Ohm/100m

### Delay:

Nominal Velocity of Propagation (VP)
66 ns/100m

### Voltage:

Voltage Rating
4000 dc / 2000 rms V

### High Freq:

Element	Frequency [MHz]	Min. RL (Return Loss)
	5 - 30 MHz	20 dB
	30 - 470 MHz	20 dB
	470 - 1000 MHz	18 dB

In each frequency band, 3 peak values up to 4 dB lower are allowed

#### Capacitance:

Capacitance Tolerance	Nominal Capacitance
2 pF/m	100 pF/m

#### High Frequency (Nominal/Typical):

Element	Frequency (MHz)	Nom. Insertion Loss
	10 MHz	4.7 db/100m
	200 MHz	23 db/100m
	400 MHz	34 db/100m
	1000 MHz	60 db/100m

Max. attenuation 10% higher

#### Insulation:

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	2.95 mm	0.15 mm

#### Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance
FRNC / LSNH	4.95 mm	0.2 mm

#### Conductor:

Stranding	Material	ConstructionNXD	Diameter +/- Tolerance
Stranded	Tinned Copper	19x0.18 mm	0.02 mm

#### Outershield 1:

Type	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Tinned copper	93 %	3.5 mm	0.2 mm	4 %

## Product Variants

Part Number	Color	Put-Up Type	Length
MRG5801.00500	BLACK	Reel	500 m
MRG5801.10100	BLACK	Reel	100 m

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