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product details

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Please note: Images are for reference only

Amphenol Part

Description:

919-NM101P-51S

Number:

Non-Magnetic Straight Plug for RG-316

Product Series:

Product Type: Connectors » Cable

Body Plating: White Bronze

Connector Body

Style:

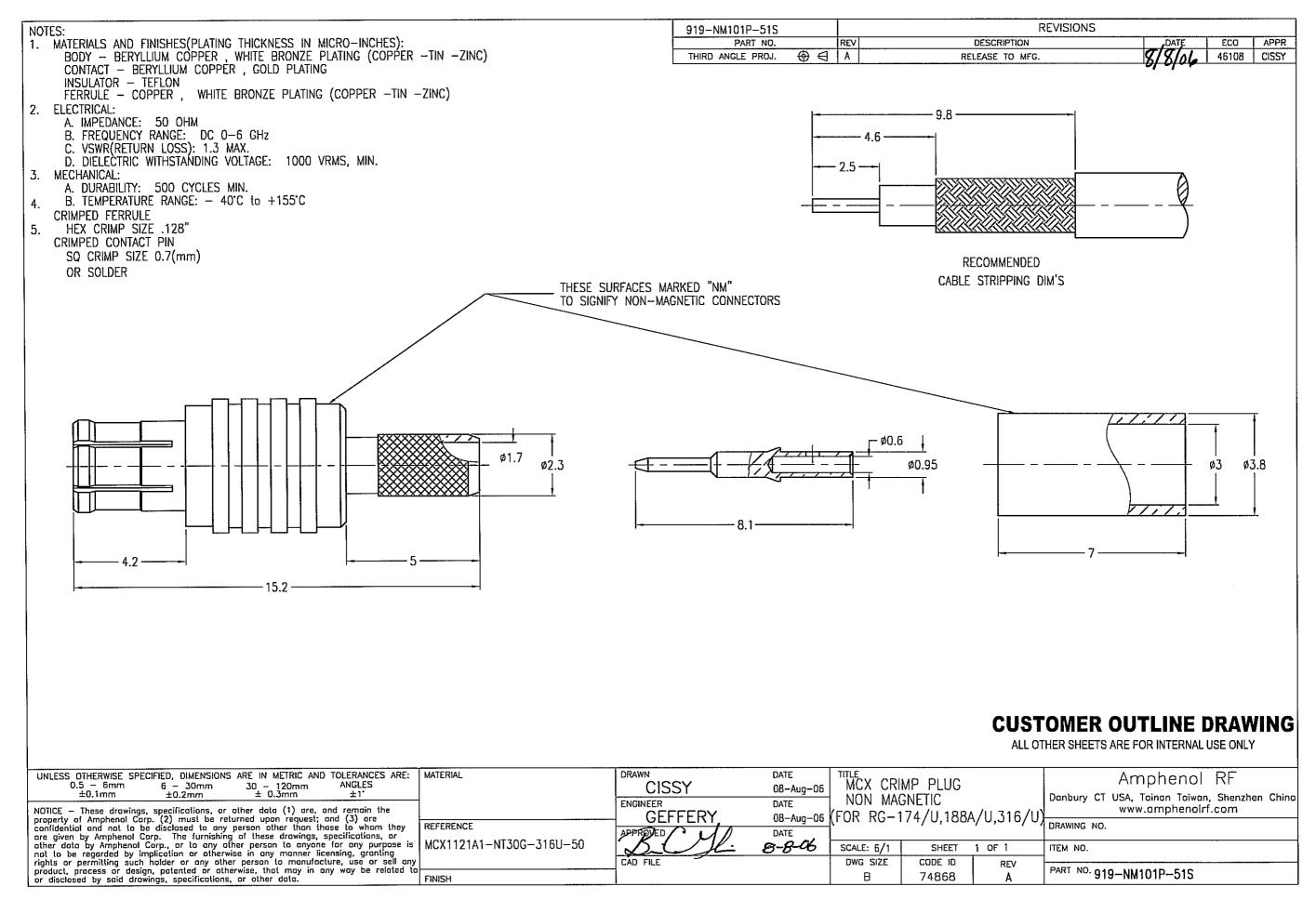
Straight

Contact Plating: Gold

Gender: Plug Impedance: 50 Ohm

Non Magnetic: Yes

RoHS Compliant: Yes





Description

MCX connectors conform to the European CECC 22220 Spec and was introduced in the 1980's.

While the MCX uses identical inner contact and insulator dimensions as the SMB, the outer diameter of the plug is .140" which is 30% smaller than the SMB. This series provides designers with options where weight and physical space is limited.

MCX provides broadband capability though 6GHz with a snap-on connector design. A range of connectors are available including PC board and cable connectors.

Features/Benefits

- Broadband performance with low reflection DC to 6 GHz. Low cost combined with high quality.
- Quick connect/disconnect snap-on mating reduces installation time.
- Accommodates a wide range of miniature RG flexible coaxial cables including semi-rigid cable provides customer flexibility in their design and manufacturing with a durable connector.

Application

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-	$\overline{}$				101

Instrumentation

Automotive

• PC/LAN

· Base Station

Radios

Components

• Telecom

• GPS

• WLAN

• Head End Equipment

50	Ohn	า Coaxi	al
Co	nned	ctors	

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75 Ohm Coaxial Connectors

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50 Ohm Specifications

ELECTRICAL

Impedance	50 ohms
Frequency range	0-6 GHz
Voltage rating	335 VRMS
Dielectric withstanding voltage	1000 Volts
VSWR	1.00 @ 2.5GHz (straight) 1.10 @ 2.5GHz (rt. angle)
Contact resistance	Center contact: 5 milliohms;
	Outer contact: 1.0 milliohms;
Insulation resistance	5000 megohms min.
Insertion loss:	0.10 dB @ 1 GHz

MECHANICAL

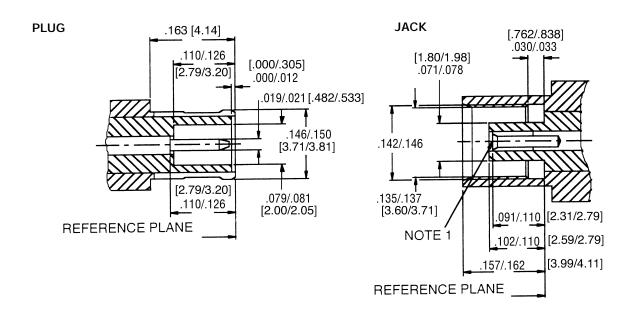
Mating	50 ohm snap-on coupling, per CECC 22220
Engagement forces	engagement 4.5 lbs (20N) max.
	disengagement 2.3 lbs (10N) min.
Connector affixment to cable	Braid and jacket: hex crimp.
Cable affixment to center contact	Solder
Contact captivation	All types, except as noted
Connector durability	500 mating and unmating cycles min.

MATERIAL

Body, Metal Parts Finish	Brass per QQB-626 Nickel or Gold
Center contacts	Male: Brass per QQB626
gold plated (30 u" gold)	Female: Beryllium copper per QQC 530 heat treated per MIL H 7199
Insulators	PTFE
Gasket	Silicone Rubber
Crimp ferrules Finish	Seamless copper tubing alloy Nickel or Gold

ENVIRONMENTAL

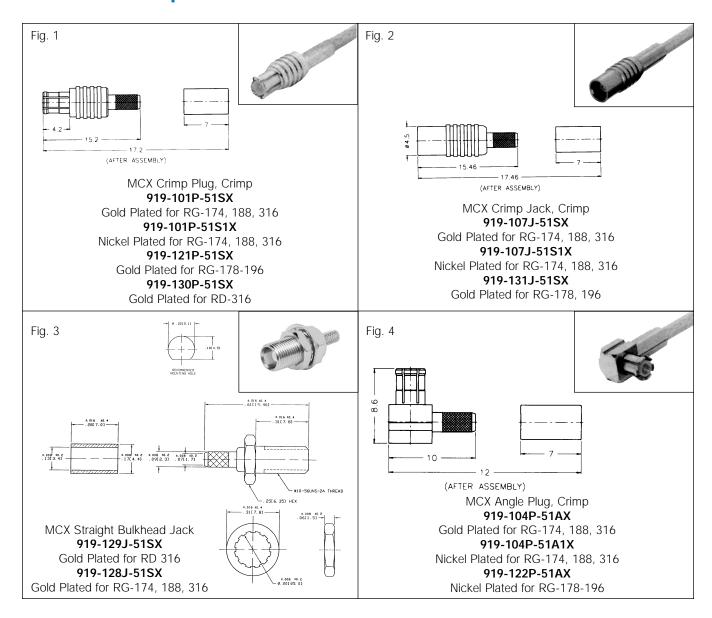
Temperature range	-65°C to + 165°C
Thermal shock	MIL-STD-202 method 107 (test cond. B) except high temperatures @ 200°C
Vibration	MIL-STD-202 method 204, snap-on (test cond. B)
Shock	MIL-STD-202 method 213, snap-on (test cond. B)
Corrosion	MIL-STD-202 method 101 (test cond. B) 5% salt solution.



NOTE:

1. I.D. to meet VSWR and contact resistance when mated with .48/.53mm diameter pin

50 Ohm Crimp Attachments for Flexible Cable



50 OHM MCX CABLE CONNECTORS

Cable RG-/U	Cable At	Cable Attachment				Construction	Amphenol	 -:
	Outer	Inner	CAI	Plt.	Ins.	Notes	Number	Fiç
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Gold Plated	919-101P-51SX	1
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Nickel Plated	919-101P-51S1X	1
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Gold Plated	919-107J-51SX	2
RG-174, 188, 316	Crimp	Solder	C74	P11	D1	Nickel Plated	919-107J-51S1X	2
RD-174, 188, 316	Crimp	Solder	C77	P11	D1	Gold Plated	919-128J-51SX	3
RG-174, 188, 316	Crimp	Solder	C77	P11	D1	Gold Plated	919-104P-51AX	4
RG-174, 188, 316	Crimp	Solder	C77	P11	D1	Nickel Plated	919-104P-51A1X	4
RG-178, 196	Crimp	Solder	C74	P11	D1	Gold Plated	919-121P-51SX	1
RG-178, 196	Crimp	Solder	C74	P11	D1	Gold Plated	919-131J-51SX	2
RG-178, 196	Crimp	Solder	C77	P11	D1	Gold Plated	919-122P-51AX	4
RD-316	Crimp	Solder	C77	P11	D1	Gold Plated	919-129J-51SX	3
RD-316	Crimp	Solder	C74	P11	D1	Gold Plated	919-130P-51SX	1