



919-415J-71P12G

919-416P-71A12G

Overview

Amphenol RF's line of high-frequency MCX connectors support data transfer rates of up to 12Gbps enabling the transmission of high resolution uncompressed video signals. These connectors provide 4K and Ultra-HD quality signals in a micro-miniature package size and are ideal for broadcast modules and video routers.

12G SDI 75 ohm MCX interconnect solutions are available as PCB connectors with edge-mount, straight or right-angle configurations, or as cable connectors for industry standard Belden 4855R cable.

Features and Benefits

- 12 Gbps performance per SMPTE standard
- One channel for 4K or Ultra-HD quality
- Variety of PCB and cable products
- Familiar push-on coupling mechanism

Applications

- 4K/8K Video Cameras
- Mobile Broadcast
- Digital Signage
- Video Encoders
- Remote Viewing
- Video Router

Amphenol RF

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For more information visit
www.amphenolrf.com
or call 800.627.7100

Ordering Information

MCX 75 Ohm PCB Connectors

Part Number	Description
919-415J-71P12G	Straight PCB Jack, 3.66 mm legs
919-417J-71P12G	Right Angle PCB Jack, 3.66 mm legs
919-418J-71P12G	Edge Mount PCB Jack, 0.062" Board
919-422J-71P12G	Straight PCB Jack, 2.85 mm legs
919-423J-71P12G	Straight PCB Jack, 2.06 mm legs
919-426J-71P12G	Edge Mount PCB Jack, 0.032" Board

MCX 75 Ohm Cable Connectors

Part Number	Description
919-416P-71A12G	Right Angle Crimp Plug for Belden 4855R
919-421P-71S12G	Straight Crimp Plug for Belden 4855R



Technical Specifications

Electrical		
Impedance		75 Ohm
Frequency Range		DC – 12 GHz
Return Loss	DC – 6 GHz	1.22 (20 dB) Max.
	6 GHz – 12 GHz	1.43 (15 dB) Max.
Dielectric Withstanding Voltage		500 VRMS Min.

Mechanical	
Mating	Push-On
Mating Cycles	500 Cycles Min.
Cable Attachment	Crimp
Assembly Tool	47-10070

Environmental	
Temperature range	-65 °C to +165 °C
RoHS	Compliant with exemption 6C

Material	
Body	Brass, Gold Plating
Contact	Beryllium Copper, Gold Plating
Insulator	PTFE