

# MK-FOUR RG 59/U COAXIAL CABLE – BM7 SERIES



## APPLICATION

- Ideal wiring for flexible application such as Interconnection CCTV cameras with pan and tilt capabilities, remote camera hook-up where the coaxial cable constantly being spooled and despoiled from the reel or lift application.
- Use this 75 Ohms baseband RG 59 coax cable for connecting closed circuit cameras and distributing analog video and RF- modulated CATV signals
- Bare copper conductor provides superb signaling for transmitting clear images without distortion or loss
- 95% shielding minimizes outside interference caused by nearby machinery or other sources of electronic noise

## INDUSTRY STANDARD

- Reference standard : UL444, UL13, UL 1665
- UL Certified : File No. E315483

## SPECIFICATIONS

<b>Part No.</b>	<b>BM7-BC-9300F</b>
<b>Physical Characteristics</b>	
Conductor	BC - Bare Copper 0.76mm (22 AWG)
Stranding	7 x 0.25mm (30AWG)
<b>Insulation</b>	
Insulation Material	3.68mm Gas-injected FPE - Foam Polyethylene
<b>Outer Shield</b>	
Outer Shield Material	BC Braid (95%) Shield coverage
<b>Outer Jacket</b>	
Outer Jacket Material	PVC - Polyvinyl Chloride
Jacket Color	Black
<b>Overall Cabling</b>	
Overall Nominal Diameter	5.91mm ± 0.03mm
<b>Mechanical Characteristics</b>	
Operating Temperature Range	-30°C to +60°C (-86°F to +140°F)
UL Temperature Rating	+60°C (+140°F)
Min. Bend Radius (Install)/ Minor Axis	63.5mm
<b>Electrical Characteristics</b>	
Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.107 µH/ 0.3m
Nom. Capacitance Conductor to Shield	16.300 pF/ 0.3m
Nominal Velocity of Propagation	78%
Nominal Delay	1.220 ns/ 0.3m
Nom. Conductor DC Resistance	10.000 DCR at 20°C (Ohm/ 300m)
Nominal Outer Shield DC Resistance	3.800 DCR at 20°C (Ohm/ 300m)

<b>Nom. Attenuation</b>		
<b>Frequency (MHz)</b>	<b>Attenuation (dB/ 100ft.)</b>	<b>Attenuation (dB/ 100m)</b>
1.000	0.310	1.01
3.600	0.600	1.96
5.000	0.630	2.07
7.000	0.740	2.42
10.000	0.900	2.95
67.500	2.060	6.75
71.500	2.100	6.88
88.500	2.230	7.31
100.000	2.310	7.51
135.000	2.760	9.05
143.000	2.810	9.21
180.000	3.120	10.23
270.000	3.850	12.62
360.000	4.420	14.49
540.000	5.630	18.46
720.000	6.700	21.97
750.000	6.800	22.30
1000.000	7.800	25.58
1500.000	9.460	31.02
2000.000	11.000	36.08
<b>Max. Operating Voltage - UL</b>	<b>300V RMS</b>	
<b>Other Electrical Characteristics 1</b>	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohms fixed bridge and termination 75 ± 1.5 Ohms	
<b>Other Electrical Characteristics 2</b>	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohms fixed bridge and termination	
<b>Sweep Testing</b>	100% Sweep tested 5 MHz to 2 GHz	
<b>Packing</b>	300m / Reel	