

Mini RG-59

4K UHD Precision Video Coax CMR PVC

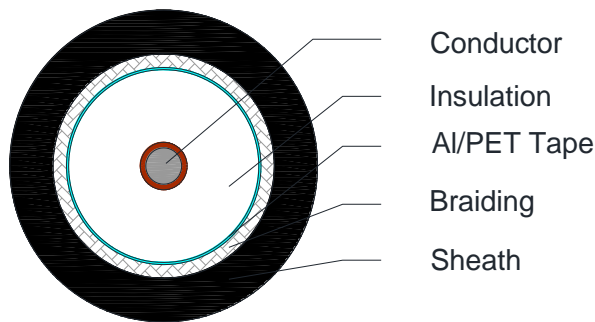


C4888

Applications

SMPTE 2082-1 12 Gb/s UHD TV, SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080P

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Silver Clad Copper
Dielectric	Foamed Polyethylene
Screen	Aluminium/ Polyester/ Aluminium foil 100% coverage
Braid	Tinned Copper Wire
Sheath	CMR Rated Polyvinyl Chloride (PVC) Standard Colour: Grey or Black
Standard Put Up Length	305metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

RG-59	C4888
Nom. Diameter Conductor(mm)	0.585
Nom. Diameter Dielectric	2.59
Coverage Braid (%)	95
Nom. Overall Diameter(mm)	4.0
Operating Temperature (°C)	-20 to +75
Max. Recommended Pulling Tension (N)	180
Min. Bend Radius (install)(mm)	40
Nominal Cable Weight (kg/km)	26.74

Electrical Characteristics at 20°C

RG-59	C4888
Impedance(Ohm)	75 ± 3
Max. DC Resistance Conductor (Ω/km)	66
Max. DC Resistance Screen (Ω/km)	12.5
Nominal Capacitance (pF/m)	54.4
Nominal Inductance (μH/m)	0.98
Velocity of Propagation (%)	80
Nominal Time Delay (ns/m)	4.16
Min. Return Loss 5 to 1600 MHz (dB)	23
Min. Return Loss 1600 to 4500 MHz (dB)	21
Min. Return Loss 4500 to 12000 MHz (dB)	15
Voltage Rating (V RMS)	300

Nominal Attenuation in dB/100m

MHz	1	3.58	5	6	7	10	12	25	55	67.5	71.5	88.5	100	135	143
RG-59	1.28	2.56	2.99	3.28	3.51	4.14	4.50	6.27	8.92	9.81	10.04	11.09	11.74	13.54	13.94
MHz	180	270	360	540	720	750	1000	1500	2000	2250	3000	4500	6000	12000	
RG-59	15.58	19.22	22.46	28.14	33.15	33.91	39.91	50	58.82	62.86	74.27	94.14	111.35	167.05	

Reference Standards

(BS) EN 50290-2	(BS) EN 50117
IEC 61196	CMR UL1666
RoHS directives	