

RG59 75 Ohm CCTV Coaxial Cable

TECHNICAL FEATURES

Conductor	Soild wire
Insulation	Foam PE Polyethylene colour natural
Tape shield (if applicable)	Alluminium polyester tape h15mm, 100% coverage
Braid shield	Bare copper or Aluminium
Sheath material	Polyvinyl Chloride (PVC) Colour Black or Transparent
Temperature range	-30 / 70°C
Standards	IEC 611961-1 / (BS) 50117 / EN 50290-2



APPLICATION

RG-59 Coax cable 75 Ohm is by far the most common type of cable used in CCTV camera installations

SPECIAL FEATURES

lead Free CEI 20-52
Conform to RoHS

REMARKS

CE acc. to EC Low-Voltage Directive 73/23/EEC and 93/68/EEC
Standard put up: 305 meters drums

Physical characteristics			
ITALCOND part number		ITAL030	ITAL031
Conductor size	AWG	20	20
Nom. Diameter of conductor	mm	0,81	0,81
Conductor material	type	CCS	BC
Dielectric Pee/PH Ø	mm	3,65	3,65
Tape shield	Yes/No	Yes	No
Braid shield	%	> 50	> 90
Braid material	type	Al	BC
Nom. Overall outer diameter	mm	6,1 ± 0,10	6,1 ± 0,10
Impedance	Ohm	75 ± 3	75 ± 3
Capacitance	pF/m	53,0	53,0
Velocity Ratio	%	84,0	84,0
Inner conductor resistance	Ohm/km	35,0	35,0
Braid resistance	Ohm/km	29,0	13,0
Testing voltage, Spark-test	kV	4,0	4,0
Min bending radius	mm	30,5	30,5
Cable weight	kg/km	31,8	45,7

Cu (BC)	Copper - bare copper
CuSn	Tinned copper
Al	Aluminum
CCS	Copper Clad Steel
CCA	Copper Clad Alluminium
MATV	Master Antenna television
CATV	Community Antenna television
DGSAT	Digital Satellite
CCTV	closed circuit television (security)

Frequency	Max Attuation at 20°C (dB/100m) (±8%)	Max Attuation at 20°C (dB/100m) (±8%)
	MHz	dB/100mt
5	1,7	1,8
10	2,4	2,6
50	5,7	5,8
100	8,0	8,5
200	11,1	11,9
300	13,6	15,4
470	17,2	19,9
600	19,9	23,4
800	22,8	26,9
862	23,9	28,7
1000	26,2	31,3
1350	30,7	36,1
1500	32,9	38,7
1750	35,4	41,9
2150	39,8	47,2
2400	42,5	51,3
2750	45,8	56,5
3000	48,2	59,0

ITAL030	ITAL031
Structural Return Loss dB	
30 ÷ 470 MHz >32dB	30 ÷ 300 MHz >31dB
470 ÷ 862 MHz >30dB	300 ÷ 800 MHz >27dB
862 ÷ 2400 MHz >26dB	800 ÷ 1000 MHz >25dB
2400 ÷ 3000 MHz >19dB	1000 ÷ 2000 MHz >19dB
	2000 ÷ 3000 MHz >15dB

Screening attenuation dB	
30 ÷ 1000 MHz >90dB	100 ÷ 900 MHz >57dB
1000 ÷ 2000 MHz >80dB	900 ÷ 2000 MHz -
2000 ÷ 3000 MHz >70dB	2000 ÷ 3000 MHz -