

# Coaxial Cable

100F Type 75 Ohm TV Relay Satellite, CATV, CCTV



## Cable Design

Inner Conductor	1 Solid Bare Copper 1/1.00 mm
Dielectric	Foamed Polyethylene
Foil	Bare copper tape screen
Braid	Bare copper clad aluminium, coverage 55 ± 3 %
Outer Jacket	See specification table

## Mechanical Characteristics

Min. Bending radius (single)	40 r mm
Min. Bending radius (repeated)	80 r mm
Max. Pulling Strength	120 N
Cable Weight (approx.)	55.6 kg/km

## Electrical Data

Characteristic Impedance	75	Ohm
Capacitance	54	pF/m
Velocity of Propagation	82	%
Inner Conductor D.C.R	22,5	Ohm/km
Outer Conductor D.C.R	14,2	Ohm/km
Screening Attenuation 30-1000 MHz	>	85 dB
Screening Attenuation 470-862 MHz	>	85 dB



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## Attenuation & Return Loss

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)
5	1.6	23
50	4.1	23
100	5.8	23
200	8.4	23
300	10.3	23
460	12.8	23
470	-	20
860	18.0	20
862	-	18
1000	19.6	18
1350	22.9	18
1750	26.3	18
2150	29.9	18

## Specification

Part Number	Series Type	Outer Jacket Type	Overall Diameter mm	Colour
51310051	100F	PVC	6,50	Black
51310054	100F	LSZH IEC60332-1	6,50	Black
51310052-03	100UG	HDPE	7,10	Green

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