

# Broadcast Coaxial Cables

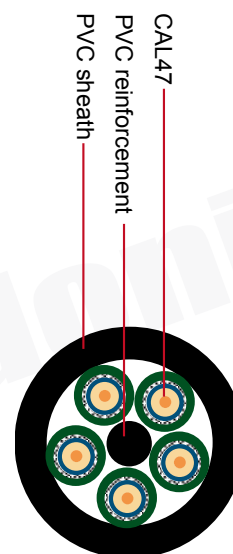
## 5 X CAL 47

### Construction

Inner conductor	Plain copper	0.6 mm
Dielectric	Gas injected foam PE	$\Phi 2.80 \pm 0.10$ mm
Outer conductor (shield 1)	Aluminium + polyester + Aluminium tape	
Shield coverage		100%
Outer conductor (shield 2)	Tinned copper	128 x 0.10 mm
Shield coverage		90%
Individual sheath	PVC	$\Phi 4.50 \pm 0.10$ mm
Overall sheath	PVC	$\Phi 14.20 \pm 0.40$ mm
Reinforcement	PVC	

### Electrical & Mechanical Characteristics

Impedance	75 $\pm$ 5 Ohm
Nominal capacitance	56 pF/m
Velocity of propagation	80%
Insulation resistance	>5000 Mohm.Km
Inner conductor resistance	62 Ohm/Km
Outer conductor resistance	17.5 Ohm/Km
Operating temperature range	-25 °C - +80 °C
Copper weight	61.0 Kg/Km
Cable weight (approx.)	192.7 Kg/Km
Screening effectiveness	>85 dB



### Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	7.8	2.38
200	15.1	4.60
470	23.5	7.16
860	32.7	9.97
1000	35.6	10.85
1350	41.7	12.71
1500	44.8	13.66
1750	48.0	14.63
2150	54.2	16.52
2400	57.8	17.62

### Return Loss

30-300 MHz	>32dB
300-600 MHz	>27dB
600-900 MHz	>23dB