

# Broadcast Coaxial Cables

## 8 X CAL 47

### Construction

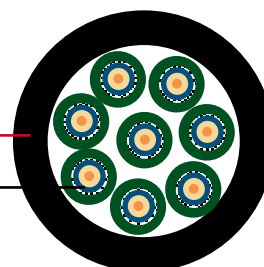
Inner conductor	Plain copper	0.6 mm
Dielectric	Gas injected foam PE	$\Phi 2.80 \pm 0.10$ mm
Outer conductor (shield 1)	Aluminium + polyester + Aluminium tape	
Shield coverage		100%
Outer conductor (shield 2)	Tinned copper	128 x 0.10 mm
Shield coverage		90%
Individual sheath	PVC	$\Phi 4.50 \pm 0.10$ mm
Overall sheath	PVC	$\Phi 18.00 \pm 0.80$ mm

### 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	92.6 Kg/Km
Cable weight (approx.)	371.6 Kg/Km
Screening effectiveness	>85 dB

PVC sheath

CAL47



### Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	7.3	2.23
200	13.7	4.18
470	21.4	6.52
860	30.0	9.15
1000	32.9	10.03
1350	38.2	11.65
1500	41.1	12.53
1750	44.1	13.45
2150	49.7	15.15
2400	53.6	16.34

### Return Loss

30-470 MHz	>32dB
470-860 MHz	>27dB
860-2400 MHz	>21dB