

## RG8 C400, 50 OHM ALUMINIUM 1(2.74/7.30)/E



### CABLE CONSTRUCTION

INNER CONDUCTOR	COPPER CLAD ALUMINIUM WIRE $\varnothing = 2.74 \pm 0.01$ mm Min. Break Strenght = 640 N
DIELECTRIC	FOAM POLYETHYLENE $\varnothing = 7.24 \pm 0.15$ mm
1 <sup>st</sup> SHIELD	AL/P-FOIL (Bonded)
2 <sup>nd</sup> SHIELD	AL WIRE BRAID Coverage $85 \pm 3$ %
JACKET	BLACK POLYETHYLENE $\varnothing = 10.29 \pm 0.10$ mm
PRINTING	RF COAX 50 OHM TYPE C400 AL (week/year) + metric marking

### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE (1 MHz)	50 $\pm$ 2 Ohm
VELOCITY	85 %
CAPACITANCE	78 pF/m
INNER CONDUCTOR RESISTANCE	$\leq 4.5$ Ohm/Km
OUTER CONDUCTOR RESISTANCE	$\leq 15$ Ohm/Km
JACKET SPARK	8.000 VCA
DIELECTRIC STRENGTH	2.000 VCA
INSULATION RESISTANCE	$\geq 100.000$ MOhm/Km
INDUCTANCE	0.2 $\mu$ H/m
SWR (30-5800MHz)	<1.20
SRL (RETURN LOSS)	> 24 dB
	> 20 dB
SHIELDING EFFECTIVENESS (30-1000MHz)	> 90 dB

ATTENUATION AT 20°C nom.

Frequency	
30 MHz .....	2.20 dB/100 m
50 MHz .....	2.90 dB/100 m
150 MHz .....	5.00 dB/100 m
220 MHz .....	6.10 dB/100 m
450 MHz .....	8.90 dB/100 m
900 MHz .....	12.80 dB/100 m
1.500 MHz .....	16.80 dB/100 m
1.800 MHz .....	18.60 dB/100 m
2.000 MHz .....	19.60 dB/100 m
2.500 MHz .....	22.20 dB/100 m
5.800 MHz .....	35.50 dB/100 m

## MECHANICAL AND ENVIRONMENTAL PERFORMANCE

MINIMUM BEND RADIUS	
Installation	35 mm
Repeated	50 mm
CRUSH RESISTANCE OF CABLE (load of 700N)	< 1 %
RATED TEMPERATURE	
Operating temperature	-40 /+85 °C
Installation	-20 /+85°C
CABLE WEIGHT	75 Kg/Km
ROHS COMPLIANT	

## REFERENCES

CABLE CONSTRUCTION COMPLIANT TO SIAE MICROELETTRONICA DATA-SHEET NO. SICV\_K09262MA