

# TECHNICAL DATA SHEET

## RG59U, 75 Ohm Siamese Coaxial Cable, for CCTV systems

### 1. CONSTRUCTION

CENTER CONDUCTOR: (COAX)20 AWG SOLID BARE COPPER  
(COAX)NOMINAL DIAMETER: 0.81mm ( 0.032")  
(POWER)2X0.5MMSQ(16x0.2mm) BC

DIELECTRIC: (COAX)GAS EXPANDED POLYETHYLENE (FOAM PE)  
(COAX)NOMINAL DIAMETER OVER DIELECTRIC: 3.66mm (0.144")  
(POWER) 1.70mm PVC, RED & BLACK

SHIELD: (COAX)BARE COPPER WIRE BRAID, 85% COVERAGE  
(COAX)NOMINAL DIAMETER OVER SHIELD: 4.14mm (0.163")

JACKET: PVC  
(COAX)NOMINAL DIAMETER OVER JACKET: 6.10mm (0.240")  
(COAX)NOMINAL JACKET THICKNESS: 0.90mm (0.035")



### 2. ATTENUATION

Attenuation	[@68° F. (20° C.)]	
Frequency (MHz)	Maximum (dB /100 ft.)	Maximum (dB /100 m)
1	0.30	0.98
10	0.84	2.75
50	1.88	6.16
100	2.71	8.89
200	3.94	12.92
400	5.85	19.18
700	8.42	27.61
900	9.83	32.23
1000	10.20	33.44

### 3. ELECTRICAL CHARACTERISTICS

IMPEDANCE: 75±3 Ohm  
VELOCITY OF PROPAGATION: 82%  
CAPACITANCE: 54±3 pF/M  
SPARKER TEST: 4000 VAC  
DCR CENTER CONDUCTOR: 34 Ohm/Km  
DCR SHIELD: 15 Ohm/Km  
SRL: Min. 20dB

### 4. APPROVAL

