

# RS 331-9212

02-26-02 REV. 20

9244

## I. DESCRIPTION:

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RG-59/U TYPE COAXIAL CABLE

## II. ELECTRICAL CHARACTERISTICS:

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NOM. IMPEDANCE: 73 OHMS  
NOM. INDUCTANCE: .112 MICROH/FT.  
NOM. CAPACITANCE CONDUCTOR  
TO SHIELD: 19.4 PF/FT  
NOM. VELOCITY OF PROPAGATION: 66%  
NOM. DELAY: 1.54 NS/FT  
NOM. CONDUCTOR DC RESISTANCE  
@ 20 DEG. C: 50 OHMS/1000 FT.  
NOM. SHIELD DC RESISTANCE  
@ 20 DEG. C: 4.5 OHMS/1000 FT.  
RETURN LOSS: 23 DB MIN,  
5 - 450 MHZ  
MAX. OPERATING VOLTAGE: 150 VRMS (UL)  
1700 VRMS (NON-UL)

### NOM. ATTENUATION:

MHZ	DB/100 FT.	MHZ	DB/100 FT.
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1	.60	200	4.9
5	.92	400	7.0
10	1.1	700	9.7
50	2.4	900	11.1
100	3.4	1000	12.0

### NOM. POWER RATING:

MHZ	WATTS	MHZ	WATTS
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50	470	500	115
100	310	1000	76
300	160		

## III. PHYSICAL CHARACTERISTICS:

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TEMPERATURE RATING: - 40 TO + 80 DEG. C  
MIN. BENDING RADIUS: 2.5"  
MAX. PULLING TENSION: 67 LBS.  
NOM. WEIGHT/1000 FT: 34 LBS.  
CONDUCTOR MATERIAL & DIA: 22 AWG SOLID BARE COPPER  
COVERED STEEL .025"  
INSULATION MATERIAL & DIA: POLYETHYLENE  
.146"  
SHIELD TYPE & % COVERAGE: BARE COPPER BRAID - 85%  
JACKET MATERIAL & DIA: PVC (BLACK)  
.242"  
APPLICABLE SPECIFICATIONS: UL/NEC: CMX OR AWM 1354  
CEC: C(UL) CMX  
FLAME RESISTANCE: UL VW-1  
USE: SUITABLE FOR INDOOR AND OUTDOOR APPLICATIONS