

09/28/06 REV 4

AG50422

I. DESCRIPTION:

RG-59/U TYPE STANDARD ANALOG VIDEO COAX.

II. ELECTRICAL CHARACTERISTICS:

NOM. IMPEDANCE: 75 OHMS
 NOM. INDUCTANCE: 0.131 MICRO-H/FT
 NOM. CAPACITANCE CONDUCTOR
 TO SHIELD: 20.4 PF/FT
 NOM. VELOCITY OF PROPAGATION 66 %
 NOM. DELAY: 1.54 NS/FT
 NOM. CONDUCTOR DC RESISTANCE
 @ 20 DEG. C: 49.0 OHMS/1000 FT.
 NOM. SHIELD DC RESISTANCE
 @ 20 DEG. C: 2.6 OHMS/1000 FT.
 MAX. OPERATING VOLTAGE: 300 VRMS (UL)
 1700 VRMS (NON-UL)

NOM. ATTENUATION:

<u>MHZ</u>	<u>DB/100 FT.</u>	<u>MHZ</u>	<u>DB/100 FT.</u>
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

III. PHYSICAL CHARACTERISTICS:

TEMPERATURE RATING: - 50 TO + 85 DEG. C
 MIN. BENDING RADIUS: 0.75 "
 MAX. PULLING TENSION: 62 LBS.
 NOM. WEIGHT/1000 FT: 36 LBS.
 CONDUCTOR MATERIAL: 23 AWG SOLID BARE
 COPPER COVERED STEEL
 CONDUCTOR DIAMETER: .023" +/- .0003"
 INSULATION MATERIAL & DIA: POLYETHYLENE
 .146" +/- 0.004
 SHIELD TYPE & % COVERAGE: BARE COPPER BRAID, 94.5%
 SHIELD DIAMETER: 0.191" MAXIMUM
 JACKET MATERIAL & COLOR: PVC BLACK
 JACKET DIAMETER: 0.242" +/- .005"
 APPLICABLE SPECIFICATIONS: DIAMLERCHRYSLER PF-10745

IV. SPECIAL TESTING:

TDR IMPEDANCE:	75 +/- 3 OHMS
VELOCITY OF PROPAGATION:	66% NOMINAL
CAPACITANCE:	21.0 MAXIMUM
MAX. ATTENUATION (DB/100FT.):	0.6 AT 1 MHZ 3.5 AT 100 MHZ
CONDUCTOR TO CORE ADHESION:	4 LB MIN 50 LB MAX
JACKET TO SHIELD ADHESION:	8 +/- 4 LBS
DIMENSIONAL STABILITY	85 +/- 2 Deg F
INSULATION:	0.062" MAX
JACKET:	0.125" MAX
CONDUCTOR DC RESISTANCE	
@ 20 DEG. C:	50.0 OHMS/1000 FT MAXIMUM
SHIELD DC RESISTANCE	
@ 20 DEG. C:	9.0 OHMS/1000 FT MAXIMUM
INSULATION SPARK VOLTAGE:	5000 VAC
JACKET SPARK VOLTAGE:	3000 VAC