SENDING ALL THE RIGHT SIGNALS

ISSUE: 2
DATE: 29/09/2011
ORIGINATOR: A.J.R.
CHECKED:

SPECIFICATION DATA SHEET

CABLE TYPE — **RG 142 B/U 50Ω CO-AXIAL CABLE**

GENERAL DESCRIPTION — **RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 Ω, SOLID S.P.C.C.S. CONDUCTOR, PTFE DIELECTRIC, DOUBLE SPCW SCREEN, FEP SHEATH.**

RELEVANT STANDARDS — **MIL-C-17/158A-00001**

COMPONENT	MATERIAL BREAKDOWN	DIAMETER (nom) mm
Conductor	01/0.940mm SILVER PLATED COPPER CLAD STEEL	0.94
Dielectric	EXTRUDED SOLID PTFE (NATURAL)	2.95
Braid 1	0.127mm S.P.C.W. BRAID (94.8% NOMINAL COVERAGE)	3.51
Braid 2	0.127mm S.P.C.W. BRAID (93.1% NOMINAL COVERAGE)	4.07
Jacket	EXTRUDED FEP (TRANSLUCENT BROWN)	4.95

CABLE CHARACTERISTICS

CONTINUOUS WORKING VOLTAGE:	1400 V RMS MAXIMUM
OPERATING TEMPERATURE RANGE:	-55°C to +200°C
CONDUCTOR RESISTANCE:	64.00 Ω/KM MAXIMUM @ 20°C
VELOCITY OF PROPAGATION:	69 %
CHARACTERISTIC IMPEDANCE:	50 ± 2 Ohms
CAPACITANCE:	105 pF/m MAXIMUM
ATTENUATION:	9.84 dB/100 Mts NOMINAL @ 50 MHz 14.44 dB/100 Mts NOMINAL @ 100 MHz 30.51 dB/100 Mts MAXIMUM @ 400 MHz 50.20 dB/100 Mts NOMINAL @ 1000 MHz 76.44 dB/100 Mts NOMINAL @ 2000 MHz 96.13 dB/100 Mts NOMINAL @ 3000 MHz 189.63 dB/100 Mts NOMINAL @ 8000 MHz 280.18 dB/100 Mts NOMINAL @ 12400 MHz
DIMENSIONS:	4.95mm ± 0.10mm
WEIGHT:	64.86 KG/KM NOMINAL

Information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge which affect the use of products, no warranty is given nor is implied with respect to such information. Users should make their own enquiries to determine the suitability of products for any particular use. Freedom under patents, copyright and registered designs cannot be assumed. This design may be subject to change without notification – please check this data sheet is still correct.