

# PRODUCT SPECIFICATION DRAWING

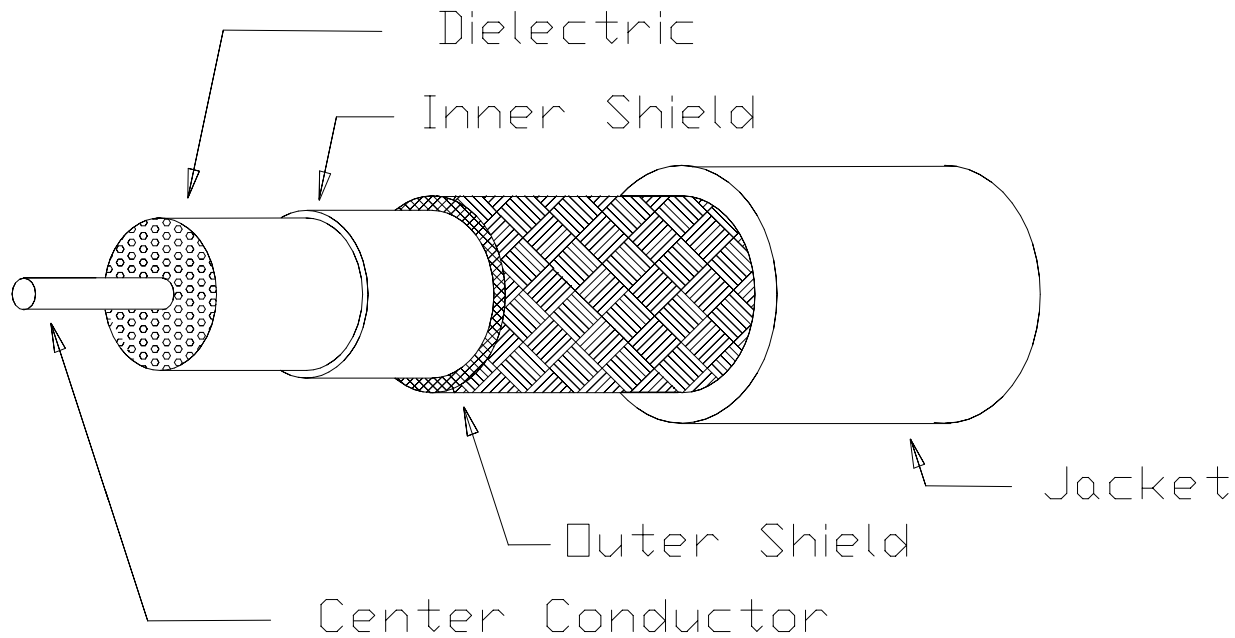
Specification Number:  
C1401140

Original Date:  
5/28/03

Revision:  
-

Title: CABLE, COAXIAL, 50 OHM, RG-58 TYPE

REFERENCE SPECIFICATION(S)	TEMPERATURE RATING	VOLTAGE RATING
UL LISTED CL2	- 40 to 105 °C	NVS
UL AWM STYLE 1354	60 °C	30
CSA CERTIFIED CMG	- 40 to 105 °C	300



\* NOTE: Drawing Not To Scale.

CONSTRUCTION OVERVIEW								
Conductor		Dielectric	Shield		Jacket	Finished cable		
Wire	Stranding/Plating		Al/PET/Al	Braid		Diameter	Weight	Part Number
AWG 20	19/32 TPC	Cellrad®	Longitude wrap	AWG 36 TPC >95%	Polyvinyl Chloride	.193"	25.9 lb./Kft	C1401140
.038"		.108"	.116"					



**JUDD WIRE, INC.**  
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Date: 5/28/03

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<b>CONSTRUCTION DETAILS</b>			
PARAMETER		UNIT	
CONDUCTOR	MATERIAL		TINNED ANNEALED COPPER
	COMPOSITION	AWG	19/32
	SIZE	AWG	20
	DIAMETER	INCH	.038 +.003, -.002
DIELECTRIC	MATERIAL		CELLRAD®
	NOM THICKNESS	INCH	.035
	DIAMETER	INCH	.108 +/- .003
	MINIMUM CONCENTRICITY	%	74
INNER SHIELD	MATERIAL		ALUMINUM/POLYESTER/ALUMINUM TAPE
	NOM THICKNESS	INCH	.0028"
	DIAMETER	INCH	.116 +/- .004
OUTER SHIELD	MATERIAL		TINNED ANNEALED COPPER BRAID
	COMPOSITION		#36 AWG, 7 ENDS PER CARRIER, 16 CARRIERS, 8 +/- 1/2 PICKS
	NOM DIAMETER	INCH	.136
JACKET	MATERIAL		BLACK FLAME RETARDING PVC
	NOM THICKNESS	INCH	.028
	DIAMETER	INCH	.193 +/- .003 NOTE: MAXIMUM O.D. AT ANY ONE POINT IS .198" MAXIMUM VARIATION BETWEEN HIGH AND LOW POINT ON O.D. IS .008"
<b>ELECTRICAL CHARACTERISTICS</b>			
IMPEDANCE (TDR)		OHMS	50 +/- 2
NOM CAPACITANCE		pF/FT	26.4
NOM VELOCITY OF PROPAGATION		%	76.6
NOM TIME DELAY		nSEC/FT	1.33
NOM CONDUCTOR DC RESISTANCE		OHMS/KFT	9.7



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**Table I. Maximum Attenuation**

Frequency (MHz)	Attenuation (dB/100 ft)
10	1.70
20	2.3
50	3.4
100	4.7
200	6.4
400	9.4
700	12.8
900	14.9
1000	15.9

SURFACE PRINT: (UL) CL2 105C 20 AWG OR AWM 1354 60C 30V VW-1 JUDD WIRE-C CSA CMG 105C 20 AWG WP-93385 LIST 3

 <b>JUDD WIRE, INC.</b> 870 Los Vallecitos Blvd San Marcos CA 92069 Tel. (760) 744-7720	Specification Number:  <b>C1401140</b>	Date:  5/28/03	Page:  3 of 3
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