

REV.	DESCRIPTION	DATE
0	Initial Release	02/22/06
1	Corrected descriptions of Insulation and Jacket, Added Physical Characteristics	03/27/06
2	Changed jacket material, added part number, updated customer part number	05/12/06
3	Corrected jacket material	06/23/06

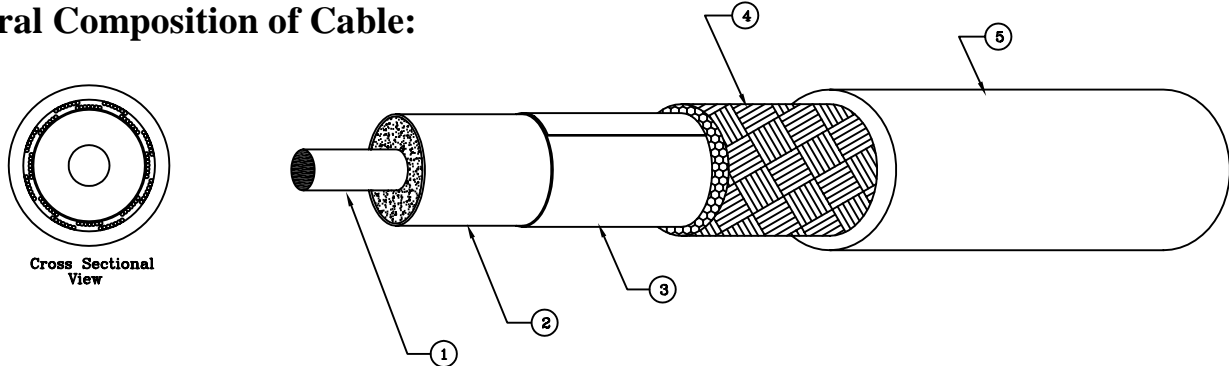
### General Properties:

50 ohm, low loss, flame retardant double screened

### Application:

RF Communication, Test Equipment, Cellular Base Stations, 911 locating systems

### General Composition of Cable:



### Technical Data

	Description	Dimensions (nominal)
1. Conductor:	0.95mm Solid Silver Plated Copper	0.0374"
2. Insulation:	Cross-Linked Cellular High Density Polyethylene	0.1170"
3. Foil Shield:	.003" Aluminum/Mylar, Longitudinally applied	0.1250"
4. Outer Braid:	34 AWG Tinned Copper, 7 ends 96% coverage	0.1630"
5. Jacket:	Exrad Cross-Linked Polyolefin, Black	0.1960"

### Electrical Data

		Frequency (MHz)	Attenuation (dB/100ft) Typ.
Operating Voltage:	0.5KVrms	50	1.79
C.W. Power:	220 watts @ 1GHz	100	2.54
Impedance:	50 ± 2 ohms	400	5.23
Capacitance:	29 pF/ft ± 2pF	1,000	8.63
Velocity of Propagation:	72% (nominal)		
Signal Delay:	1.4 ns/ft (nominal)		
Return Loss:	Better than 20 dB to 1 GHz		
Resistance:	Center Conductor - 0.77 ohms/100ft max. Outer Conductor - 0.31 ohms/100ft max.		

### General Data

Temperature Range:	-40C to 105°C	Flame Rating:	UL 1581 Horizontal
Max. Eccentricity:	8% Dielectric, 20% Jacket	Ovality:	6% max.
Adhesion:	Dielectric: 6.8-16 lbs/2"	Bending Moment:	0.26 ft/lb @ 90° Angle
	Braid: 8.0-18 lbs/3"	Min. Bend Radius:	2.5" Static / 5" Dynamic
	Jacket: 4.5-18 lbs/2"		



TITLE

**RFC 193**  
**(Crosslinked RG 142 Core w/ Al/My foil & TC braid)**  
**50 Ohm Radio Frequency Coaxial Cable**  
**Anixter Part Number RG142-XACT**

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS AND TOLERANCES  
ARE IN INCHES  
DO NOT SCALE THIS DRAWING

DRN.

Jason Herbert

DATE

02/22/06

CKD.

DATE

SIZE  
A

PART NUMBER:

58-00080-001

DOCUMENT NUMBER:

12901-A