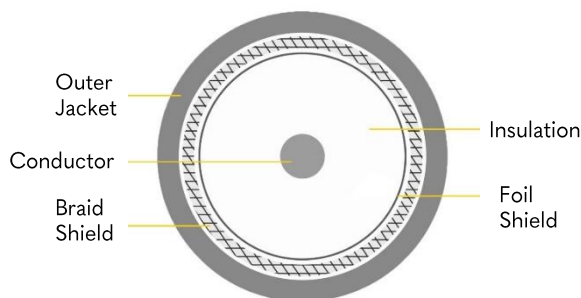




Voltan RG 6U is a common type of coaxial cable used in a wide variety of residential and commercial applications. This RG 6U type cables have become the standard for CATV, has a copper-coated steel center conductor and a combination aluminium foil/aluminium braid shield, typically with high coverage about 90%. RG 6U can be used as a branch cable with standard transmission distance up to 450m.

### DESIGN

Conductor: Copper Clad Steel
Insulation: Foam PE (Polyethylene)
Insulation Color: Neutral
Braid Wire: Aluminium Wire
Jacket Color: Black
Shielding: Aluminum/Polyester Foil Bonded
Outer Jacket: PVC (Polyvinyl Chloride) LSZH (Low smoke zero halogen)



### PHYSICAL CHARACTERISTICS

	Value
Center Conductor Diameter	1.02 mm
Insulation Diameter	4.75 mm
Braid Wire Diameter	0.12 mm
No. of Braid Wire	144
Braid Wire Coverage	90%
Outer Jacket Diameter	6.9 mm
Min. Bending Radius (Installation)	76.2 mm
Max. Pulling Tension	200N
Operating Temperature	-20°C to +75°C

### ELECTRICAL CHARACTERISTICS

	Unit	Value
Characteristic Impedance	$\Omega$	75.0
Capacitance	pF/m	54.0
Center Conductor DCR	$\Omega/\text{km}$	102
Velocity of Propagation	%	85
Dielectric Strength	VCA	5000
Jacket Sparker	VCA	4000
Return Loss (5-6000 MHz)	dB	20.0

## PERFORMANCE CHARACTERISTICS

Frequency at 20°C (MHz)	Attenuation (10% higher) (dB/100m)
1	1.21
10	2.16
50	4.62
100	6.30
200	8.66
400	12.23
700	16.56
900	18.99
1000	20.04
1750	29.00
2150	32.50
2200	33.00
3000	39.00

## RoHS GUIDELINE

Properties	Value
Calcium Content (Cd)	<0.01%
Lead Content (Pb)	<0.1%
Mercury Content (Hg)	<0.1%
Chromium (VI) Content	<0.1%
Polybrominated Biphenyls (PBB)	Forbidden
Polybrominated Diphenyl Ether (PBDE)	Forbidden

## ORDERING INFORMATION

Part.No	Description
VTAL6690P	RG 6U 75 Ohm Coaxial Cable with 90% AL Braid Coverage - PVC
VTAL6690L	RG 6U 75 Ohm Coaxial Cable with 90% AL Braid Coverage - LSZH