

# Planet

## Structure Cabling Systems



### WELL EXPERIENCED

More than 13 years experience in networking industry



### PROFESSIONAL TEAM

We have professional sales team to offer fast response and engineers to support different solutions



### ABUNDANT PRODUCTS

Integrated and completed product lines for networking and cabling items



### STANDARDS COMPLIANCE

ANSI/EIA RS-310-D, IEC2-297, DIN43494/43491, GB/T92-3047.2 Metric & ETSI standard



**Part Number:** PL-RG5WPxx

**Index by Part Number:**

**DRAWING:**



Part Number	Description
PL-RG5WP3	BC Conductor + BC Power Cord
PL-RG5WP3BA	BC Conductor + CCA Power Cord
PL-RG5WP3SB	CCS Conductor + BC Power Cord
PL-RG5WP3SA	CCS Conductor + CCA Power Cord

**Technical Characters:**

Center Material	BC or CCS
Center Conductor	0.8mm
Dielectric	3.8mm solid PE or Foam PE
Shield	Al Foil
Braid Coverage	Aluminum 0.12*80±0.05
Jacket	6.10+0.10mm PVC
Power wire	0.5mm or 0.75mm or 1mm
Power Insulation	2.0mm PE insulation
Power Jacket	5.0mm PVC
Spark Test	4000VAC
Impedance	75 Ohm
Capacitance	52+/-3pF/m
Velocity of Propagation	85%
Return Loss	20dB min (5-2300MHz)
Attenuation	[@68° F. (20° C.)]

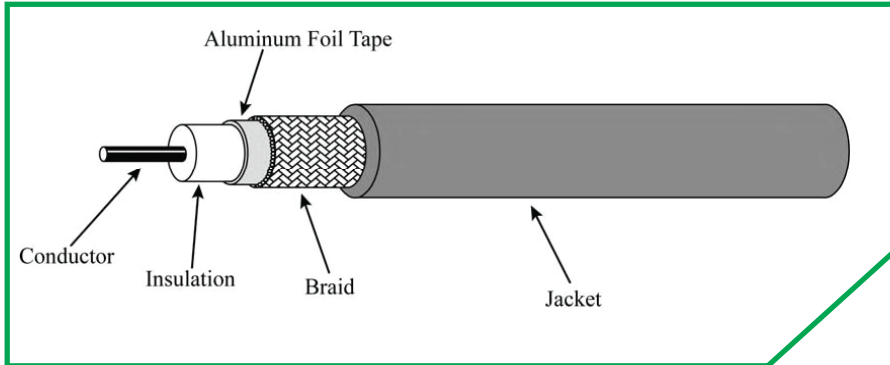
Part Number: PL-RG5WPxx

Frequency (MHz)	Maximum (dB/100 ft.)	Maximum (dB/100 m)
5	0.58	1.9
50	1.5	4.9
100	2	6.5
200	2.8	9.2
400	4.1	13.6
700	5.6	18.4
900	6.2	20.3
1000	6.5	21.4
1450	8	26.2
1800	8.5	27.9
2100	9.5	31.1
2250	10	34
3000	11.4	37.5



Part Number: PL-RG6OPxx

**DRAWING:**



**Index by Part Number:**

Part Number	Description
PL-RG6OP3	BC Conductor
PL-RG6OP3S	CCS Conductor

**Technical Characters:**

CONDUCTOR:	
Number of Coax	1
Material / Size	18AWG / CCS or Bare Copper
Nominal Conductor Diameter	1.02 mm
INSULATION:	
Material	Foam Polyethylene(Foam PE)
Nominal Diameter	3.75 mm
OUTER SHIELD:	
Foil	Aluminum Foil Tape
Braiding	Aluminum / 96*0.12mm
OUTER JACKET:	
Material	Polyvinyl Chloride(PVC)
Overall Nominal Diameter	6.50 mm



Part Number: PL-RG6OPxx

**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-40°C To +70°C
Max. Recommended Pulling Tension	104 lbs.
Min. Bend Radius (Install)	63.5 mm

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 +/-3 Ohms	
Nom. Inductance	0.32 µH/m	
Nom. Capacitance Conductor to Shield	53.1 pF/m	
Nominal Velocity of Propagation	83 %	
Nominal Delay	3.94 ns/m	
Nom. Conductor DC Resistance @ 20 °C	44.5 Ohms/305 m	
Nominal Outer Shield DC Resistance	12 Ohms/305 m	
Typical Structural Return Loss(5-1000 MHz) :	20 dB	
Max. Attenuation	Frequency (MHz)	Max. Attenuation (dB/30 m)
	5	0.89
	55	1.95
	211	3.59
	270	4.05
	300	4.27
	350	4.64
	400	4.88
	450	5.30
	550	5.90
	750	6.96
	870	7.54
1000	8.09	

**Part Number:** PL-RG6WPxx

**DRAWING:**



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PL-RG6WP3SA	CCS Conductor + CCA Power Cord

**Technical Characters:**

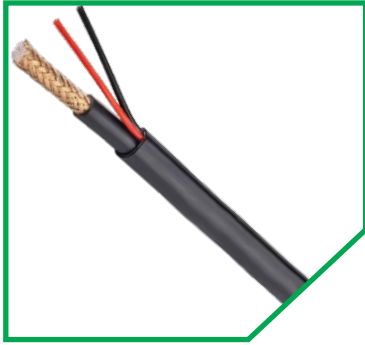
inner conductor	material	BC or CCS
	diameter	1.02mm (+/- 0.02 mm)
isolation (dielectricum)	material, colour	foamed PE
	diameter	4.57 mm (± 0,1 mm)
	a)shielding	Bonded AL foil
	b)braiding	64x0.15mm AL
Coverage of braiding	filling (%)	90%
outer insulation (jacket)	material	PVC
	diameter	7mm
RG6 with power	Power diameter	0.5mm 0.75mm
Mechanical data:		
min. bending radius	mm	min. 75 mm
temperature range	installation	-5°C to +40°C
Temperatur	operating	-20°C to +50 °C
	storage	-20°C to +50°C

Part Number: PL-RG6WPxx

Electrical Data:		
characteristic impedance	ohms	75 ohms (± 3 ohms)
reduction factor	v/c (%)	82%
capacitance	pF/m oder nF/km	53 nF/km (± 1)
attenuation	< 50 MHz	---
(in dB/100m at 20°C)	50 MHz	4.3 dB
	100 MHz	6.1 dB
	470 MHz	13 dB
	860 MHz	18.5dB
	950 MHz	21 dB
	1750 MHz	27 dB
	2150 MHz	31 dB
	2400 MHz	---
screening factor	30 – 100 MHz	>100 dB
	100 – 1000 MHz	>100 dB
	–1000 2400 MHz	>90 dB
return loss	5 – 65 MHz	22 dB
	65 – 470 MHz	22 dB
	470 – 862 MHz	20 dB
	862 – 2400 MHz	20 dB
transfer impedance	5 MHz	≤ 5 mohm / m @ 5 MHz
	30 MHz	
direct current resistance	ohms / km	inner conductor: 21 ohms/km
		outer conductor: 30 ohms/km

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PL-RGD6WP3SA	CCS Conductor + CCA Power Cord

**Technical Characters:**

CENTER CONDUCTOR:	Bare Copper	1.02±0.01
DIELECTRIC:	Foamed Polyethylene	4.57±0.05
SHIELD:	Bonded Aluminum Foil	100% Coverage
BRAID:	Aluminum Braid	0.12*80±0.05
INNER JACKET:	RAL7035	6.8±0.05
POWER CABLE:	Copper	16*0.18mm pure copper Power red and black
POWER CABLE Jacket diameter	Black PE and Red PE	1.8mm
Outer Jacket Thickness	RAL7035	0.7mm
OUT JACKET	RAL7035	11±0.05

Part Number: PL-RGD6WPxx

ELECTRICAL PROPERTIES		
NOMINAL IMPEDANCE:	75 Ohm ± 3 Ohm	
NOMINAL VELOCITY OF PROPAGATIO	85%	
NOMINAL CAPACITANCE	52pF/m ± 2 pF/m	
SRL	>20dB (5~1Ghz 100% Swept Tested)	
COMPLIANTS	CE RoHS ISO9001	
ATTENUATION	At 68°F / 20°C	
Frequency (MHz)	Maximum (dB/100ft)	Maximum (dB/100m)
5	0.86	2.84
55	2.05	6.77
83	2.45	8.09
187	3.60	11.88
211	3.80	12.54
250	4.10	13.53
300	4.45	14.69
350	4.80	15.84
400	5.10	16.83
450	5.40	17.82
500	5.70	18.81
550	5.95	19.64
600	6.20	20.46
750	6.97	23.00
865	7.52	24.82
1000	8.12	26.80
MACHANICAL PROPETIES		
WORKING TEMPERATURE	-40°C ~ 75°C	
MINIMUM BENDING RADLUS	15 Times of OD (Loaded), 10 Times of OD(Unloaded)	



 **Planet Structure Cabling Systems Inc.**

 **Montreal, CANADA**

 **info@planet-ca.com**

 **+1 438 990 0820**



**[www.planet-ca.com](http://www.planet-ca.com)**