

BWL 300

50 Ohm Coaxial Cable
Wireless Local Loop



CONSTRUCTION AND DIMENSIONS

	materials	dimensions mm	tolerance
Inner conductor: solid soft annealed copper wire	Cu	1.70	± 0.06
Dielectric: Physical foam	PEE gas	4.80	± 0.10
Outer conductor:	Al/Pet/copo	25-12-25	
	Foil: Aluminium/Polyester/Copolymer coverage	100%	
Braid: tinned copper wires	CuSn		
	visual coverage diameter	83% 5.55	
Sheath	N.C. PVC or PE or Duraflam	7.60	± 0.20

ELECTRICAL CHARACTERISTICS

Impedance	50±2	Ohm	
Capacitance	86±2	pF/m	
Velocity ratio	78%		
Screening efficiency	> 90	dB	
Resistance at 20 °C	inner conductor	7.6	Ohm/km
	outer conductor	7.4	Ohm/km

ATTENUATION AND MAX POWER

MHz	dB/100m	kW
30	3.5	2.04
50	4.5	1.57
150	7.6	0.89
220	9.2	0.73
450	13.4	0.50
900	19.4	0.35
1500	25.7	0.26
1800	28.4	0.24
2000	30.2	0.22
2500	34.2	0.20
3500	41.5	0.16
5800	55.8	0.12

MECHANICAL SPECIFICATIONS

Performance property	Units
Bend radius installation	mm 40/80
Weight	kg/km 84.7

ENVIRONMENTAL SPECIFICATIONS

Performance property	°C
Minimum Installation temperature	-5 °C
Operating temperature range PE	-40/+80°C
Operating temperature range PVC	-30/+75°C

BWL 400

50 Ohm Coaxial Cable
Wireless Local Loop



CONSTRUCTION AND DIMENSIONS

	materials	dimensions mm	tolerance
Inner conductor: solid soft annealed copper wire	Cu	2.70	± 0.02
Dielectric: Physical foam	PEE gas	7.20	± 0.10
Outer conductor:	Al/Pet/copo	25-12-25	
	Foil: Aluminium/Polyester/Copolymer coverage	100%	
Braid: tinned copper wires	CuSn		
	visual coverage diameter	83% 7.95	
Sheath	N.C. PVC or PE or Duraflam	10.30	± 0.20

ELECTRICAL CHARACTERISTICS

Impedance	50±2	Ohm	
Capacitance	80±2	pF/m	
Velocity ratio	83%		
Screening efficiency	> 90	dB	
Resistance at 20 °C	inner conductor	3.1	Ohm/km
	outer conductor	5.8	Ohm/km

ATTENUATION AND MAX POWER

MHz	dB/100m	kW
30	2.3	3.36
50	3.0	2.59
150	4.9	1.47
220	6.0	1.20
450	8.7	0.82
900	12.7	0.57
1500	16.8	0.43
1800	18.6	0.39
2000	19.8	0.36
2500	22.5	0.32
3500	27.3	0.26
5800	36.9	0.20

MECHANICAL SPECIFICATIONS

Performance property	Units
Bend radius installation	mm 50/100
Weight	kg/km 149.2

ENVIRONMENTAL SPECIFICATIONS

Performance property	°C
Minimum Installation temperature	-5 °C
Operating temperature range PE	-40/+80°C
Operating temperature range PVC	-30/+75°C