DATA SHEET

Cableados y Conexiones

www.caycon.es

EP-600

50Ohms Low Loss coaxial cable
EP600 Standard Braiding black PE jacket

APPLICATION

- Antenna and Feeder system.
- Indoor DAS.
- Microwave System.
- Low loss, broad band assemblies for Broadcast, Aerospace, Radar, Navigation...

CONSTRUCTIONS & DIMENSIONS

Construction	Material	Dia.(mm/in)
Inner conductor	Solid	4.4700 mm | 0.1760 in
Dielectric	Foam PE**	11.560 mm | 0.455 in
Outer conductor	Aluminum Tape	12.500 mm | 0.492 in
Braiding	Tinned Copper	-
Jacket	PE	14.990 mm | 0.590 in
Weight	0.20 kg/m	

ELECTRICAL CHARACTERISTICS

Cable Impedance	50 ohm
Capacitance	76.0 pF/m | 23.2 pF/ft
Dc Resistance, Inner Conductor	1.740 ohms/km | 0.530 ohms/kft
Dc Resistance, Outer Conductor	3.940 ohms/km | 1.200 ohms/kft
Dc Test Voltage	4600 V
Jacket Spark Test Voltage (rms)	8000 V
Maximum Frequency	10.20 GHz
Operating Frequency Band	30 – 6000 MHz
Peak Power	40.0 kW
Shielding Effectiveness, minimum	90dB
Relative Velocity	87%

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MECHANICAL CHARACTERISTICS

Bending Moment	3.7 N-m | 2.8 ft lb
Flat Plate Crush Strength	1.1 kg/mm | 60.0 lb/in
Minimum Bend Radius, Single Bend	38.10 mm | 1.50 in
Tensile Strength	159 kg | 350 lb

ENVIRONMENTAL CHARACTERISTICS

Installation Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

ATTENUATION

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
30 MHz	1.60	0.49
50 MHz	1.97	0.60
150 MHz	3.20	0.97
220 MHz	3.80	1.17
450 MHz	5.60	1.71
900 MHz	8.20	2.50
1500 MHz	10.80	3.30
1800 MHz	12.10	3.70
2000 MHz	12.80	3.90
2400 MHz	14.44	4.40
2500 MHz	14.80	4.50
3000 MHz	16.40	5.00
4000 MHz	19.36	5.90
4500 MHz	21.00	6.40
5000 MHz	22.31	6.80
5200 MHz	22.97	7.00
5500 MHz	23.62	7.20
5800 MHz	24.28	7.40
6000 MHz	24.93	7.60