

Powertec PTL-240 50 Ω Braided Coaxial Cable

Model Number

PTL-240

Construction

Flexible

Impedance

50 Ω

Cable Group

L-240



Powertec's PTL-240 is an L-240 class low loss coaxial cable with a 6.1 mm outer diameter. Supporting frequencies beyond 6 GHz, it is a popular choice of RF cable, due to its efficient compromise between performance and cost.

PTL-240 cable provides the flexibility and easy installation of a smaller diameter cable, with the low attenuation and shielding advantages of a larger cable. Unlike larger cables, L-240 class cables can pass frequencies up to a theoretical limit of 31 GHz.

The cable is a mid-size providing a compromise between form-factor/bend radius, and attenuation/power handling. Its double shielded outer conductor provides exceptional RF shielding exceeding 90 dB, and PE jacket for a service life in excess of 20 years.

As a braided cable it is suitable for UHF radio, and cellular technologies such as 3G and 4G. The cable is very popular as a feeder cable connecting roof mounted antennas to equipment indoors.

Terminating L-240 coaxial connectors requires a 6.48 mm (.255") hex die.

- Durable and UV-Stable Polyethylene (PE) jacket
- Suitable for most Sub-6 GHz wireless transmissions
- Industry-leading attenuation characteristics
- Wide range of compatible RF connectors available

Cable Technical Data

RF PERFORMANCE

Operating Freq. Range	DC to 6 GHz	Input Impedance	50 Ω
Velocity of Propagation	83%	Capacitance	79.8 pF/m
Shielding Effectiveness	> 90 dB	dc Test Voltage	2500 V
Peak Power	5.6 kW		

PHYSICAL CHARACTERISTICS

Min. Bend Radius (Static)	19.1 mm	Weight	50 g/m
Min. Bend Radius (Dynam.)	63.5 mm	Operating Temperature	-40 to 85 °C
Tensile Strength	36 kg		

LAYER	MATERIAL	OUTER DIAMETER
Inner Conductor	Solid Copper	1.42 mm
Dielectric	Foamed Polyethylene (EPE)	3.81 mm
Outer Conductor	Aluminium Foil	3.94 mm
Outer Conductor	Tinned Copper Braid (TC)	4.52 mm
Outer Jacket	Polyethylene (PE)	6.10 mm

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