

## Powertec PTL-400 50 $\Omega$ Braided Coaxial Cable

### Model Number

PTL-400

### Construction

Flexible

### Impedance

50  $\Omega$

### Cable Group

L-400



Powertec's PTL-400 is an L-400 class low loss coaxial cable with a 10.29 mm outer diameter. Supporting frequencies beyond 6 GHz, it is a popular choice for entry- to intermediate-level wireless communications systems.

PTL-400 is classed as a Flexible cable as it uses a double outer conductor comprising aluminium tape and tinned copper braiding. This 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 can be widely found throughout industrial and mining telecommunications systems. Braided cables are subjected to restrictions when used for In-Building Cellular applications. Consult your Powertec representative for more information.

Terminating L-400 coaxial connectors requires a 10.89 mm (.429") hex die.

- Durable and UV-Stable Polyethylene (PE) jacket
- Low Smoke Zero Halogen (LSZH) flame retardant
- 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 $\Omega$
Velocity of Propagation	85%	Capacitance	78 pF/m
Shielding Effectiveness	> 90 dB	dc Test Voltage	2500 V
Peak Power	16 kW		

## PHYSICAL CHARACTERISTICS

Min. Bend Radius (Static)	25.4 mm	Weight	100 g/m
Min. Bend Radius (Dynam.)	101.6 mm	Operating Temperature	-40 to 85 °C
Tensile Strength	> 70 kg		

LAYER	MATERIAL	OUTER DIAMETER
Inner Conductor	Copper Clad Aluminium (CCA)	2.74 mm
Dielectric	Foamed Polyethylene (EPE)	7.24 mm
Outer Conductor	Aluminium Foil	7.39 mm
Outer Conductor	Tinned Copper Braid (TC), AlMg	8.13 mm
Outer Jacket	Polyethylene (PE)	10.29 mm

Document Generated on 29/10/2021 8:37 AM

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