

PX Cables

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PXT100 coaxial cable data sheet

Cable Type :

coaxial cable PXT100 with Foam PE dielectric to BS EN 50117-1:2002

Construction :

Inner conductor : solid pure copper, annealed copper conductor 1.0mm $\pm$ 0.02mm

Dielectric : Foam PE, OD 4.6mm $\pm$ 0.1mm

Outer conductor : pure copper tape, 100% coverage

Outer conductor : pure copper wire braid 96/0.12mm , coverage 60% $\pm$ 5.

Sheath: PVC or LSHF

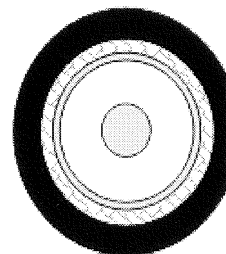
Overall Diameter Cable : 6.55mm $\pm$ 0.3mm

Cable weight : 100g per metre

Max tensile strength : 55 N

Minimum bending radius : 40mm

Minimum flexing radius : 75mm



Characteristics

Inner conductor resistance : $\leq$ 26.0 Ω /km

Outer conductor resistance : $\leq$ 15.0 Ω /km

Characteristic Impedance : 75 $\pm$ 3 Ω

Capacitance : 52 $\pm$ 3 pF/m

Relative Velocity of Propagation : 85% $\pm$ 3

Irregularity of Impedance though out cable length : < 1%

Frequency	Max. Insertion Loss
5 MHz	1.6 dB/100m
50 MHz	4.6 dB/100m
100 MHz	6.5 dB/100m
200 MHz	9.5 dB/100m
460 MHz	15.0 dB/100m
860 MHz	19.5 dB/100m
1000 MHz	21.5 dB/100m
1750 MHz	29.0 dB/100m
2150 MHz	32.5 dB/100m

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Frequency	Min. Return Loss
5-30 MHz	23 dB
30-470 MHz	23 dB
470-862 MHz	20 dB
832-2150 MHz	18 dB

Frequency	Min. Screening Attenuation
30-470 MHz	75 dB
470-1000 MHz	75 dB
1-2.15 GHz	65 dB