

Type – 75 ohm FPE CX

Application

Communication and Signal Control Systems

Sector – BT Security-TEC™

Coaxial Cables

Design

1. Conductor

1 x 1.00 mm (±0.02 mm)
Solid Bare Copper

2. Insulation

Foamed Polyethylene

3. Screen Material

Copper/Polyester Foil
100% coverage

4. Braid

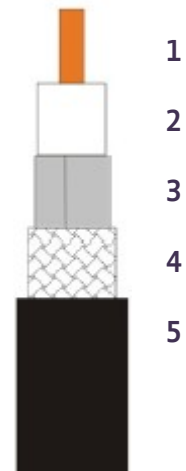
Bare Copper
40% coverage

5. Sheath Material

Polyvinyl Chloride (PVC)

Standard Put Up Length

305 or 500 metres



Physical Characteristics

Nominal Conductor Diameter (mm)	Nominal Diameter Over Insulation (mm)	Nominal Overall Diameter (mm)	Min Bend radius (install) (mm)	Nominal Cable Weight (kg/km)	Operating Temperature Range	Maximum Tensile Strength (Newton)
1.00 ± 0.02	4.65 ± 0.15	6.8	65	44.7	-20°C to +75°C	55

Electrical Characteristics (1)

Nominal Impedance (ohms)	Nominal Inductance (µH/m)	Nominal Capacitance Conductor to Shield (pF/m)	Nominal Velocity Of Propagation (%)
75 ± 3	0.32	52.5 ± 3	82

Electrical Characteristics (2)

Maximum DC Conductor Resistance @ 20°C (Ohms/km)	DC Resistance of Screen (Ohms/km)	DC Insulation Resistance (MOhms.km)	Return Loss 5MHz – 1000MHz (dB)	Return Loss 1000MHz – 22000MHz (dB)
26	≤12	≥ 10,000	≥23	≥18

Maximum Attenuation Table

Y	Attenuation (dB/km)	Frequency (MHz)	Attenuation (dB/km)
5	1.60	460	15.00
10	1.80	860	19.50
50	4.60	1000	21.50
100	6.50	1750	29.00
200	9.50	2150	32.50
300	10.85	NB Attenuation Tolerance ± 8%	