

**Part No:** 392100C6C-F00  
**Description:** TruHome Cat 6 UTP + TV100 coaxial cable in a black Polyethylene (PE) jacket in a shotgun formation. Designed for media distribution around the home and is suitable for external applications.



### Construction

#### Cat 6 U/UTP

Conductor Material & Size : Bare Copper, 23(1)AWG  
 Insulation Material : Polyethylene (PE)  
 Number of Pairs : 4  
 Pair Identification : White/Blue, Blue/White; White/Orange, Orange/White  
 : White/Green, Green/White; White/Brown, Brown/White



#### TV 100

Conductor Material : Bare Copper  
 Conductor Size : 1.00mm  
 Insulation Material : FPE  
 Overall Screen 1 : Bare Copper Foil  
 Overall Screen 2 : Bare Copper Wire Braid, (≥ 55% Coverage)

### Overall Construction

Sheath Material : Polyethylene (PE)  
 Sheath Colour : Black

### Electrical Characteristics

#### Cat 6 U/UTP

Nominal Impedance : 100 ± 15 Ω (1-100MHz)  
 Max. Conductor Resistance @ 20°C : ≤ 9.50 Ω/100m  
 Max. Conductor Resistance Unbalanced : ≤ 2.5 %  
 Mutual Capacitance : ≤ 5.6 nF/100m  
 Capacitance Unbalanced to Earth : ≤ 330 pF/ 100m  
 Max. Delay Skew : ≤ 45 nS/ 100m  
 Voltage Rating : 30 V  
 Test Voltage : 2.5kV (AC)

#### Cat 6 U/UTP Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	200	250	300	400	500	MHz
Attenuation	1.9	3.5	5.5	7.0	7.9	10.0	14.4	18.6	27.4	31.1	34.0	41.1	47.1	≤ dB
Return Loss	19.1	21.0	21.0	20.0	19.5	18.5	16.0	14.0	11.0	10.0	9.2	8.0	7.0	≥ dB
NEXT	65.0	64.1	57.8	54.6	53.1	50.0	45.1	41.8	36.0	35.3	34.0	31.9	30.4	≥ dB
PS NEXT	62.0	61.8	55.5	52.2	50.7	47.5	42.7	39.3	34.3	32.7	31.4	29.3	27.6	≥ dB
ACRF	64.2	52.1	44.2	40.1	38.2	34.3	28.3	24.2	18.2	16.2	14.6	12.1	10.2	≥ dB
PSACRF	61.2	49.1	41.2	37.1	35.2	31.3	25.3	21.2	15.2	13.2	11.6	9.1	7.2	≥ dB

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### TV 100

Nominal Impedance : 75 ± 3 Ω  
 Max. Conductor Resistance @ 20°C : ≤ 23.5 Ω/km  
 Outer Conductor Resistance @ 20°C : ≤ 15 Ω/km  
 Capacitance : 53 ± 3 pF/m  
 NVP : 83 %

### TV 100 Electrical Performance

#### Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
5	1.6	860	19.5
50	4.6	1000	21.5
100	6.5	1750	29.0
200	9.5	2150	32.5
460	15.0		

#### Return Loss

Frequency (MHz)	dB
30 – 470	≥ 23
470 – 862	≥ 20
862 - 2150	≥ 18

### Physical Characteristics

Overall Diameter : 6.5 x 13.2 ± 0.4mm  
 Bend Radius : Fixed 8 x OD Flexing 10 x OD  
 Temperature Rating : Fixed -15°C to 70°C Flexing -10°C to 70°C  
 Weight : 92 kg/km

### Overall Construction

RoHS3 Compliant : Yes  
 UV & Weather Resistant : ISO 4892-3  
 Cat 6 U/UTP Manufactured in Accordance to : TIA/EIA 568-C.2, ISO/IEC 11801  
 CE Compliant : LVD (2014/35/EU)  
 CPR Classification : Fca (EN50575:2014+A1:2016)