

Part No: HA5-E00
Description: TruHome 1 x Cat 5E UTP, 2 x Cat 6 UTP and 2 x TV100 coaxial cable in a distinctive Pink Low Smoke Halogen Free (LSHF) jacket with a Purple stripe.




Construction

1 x Cat 5E UTP

Conductor Material & Size	: Bare Copper, 24(1)AWG
Insulation Material	: HDPE
Number of Pairs	: 4
Pair Identification	: White/Blue, Blue/White : White/Orange, Orange/White : White/Green, Green/White : White/Brown, Brown/White
Sheath Material	: Low Smoke Halogen Free (LSHF)
Sheath Colour	: Red

2 x Cat 6 UTP

Conductor Material & Size	: Bare Copper, 23(1)AWG
Insulation Material	: HDPE
Number of Pairs	: 4
Pair Identification	: White/Blue, Blue/White : White/Orange, Orange/White : White/Green, Green/White : White/Brown, Brown/White
Sheath Material	: Low Smoke Halogen Free (LSHF)
Sheath Colour	: 1 x Grey, 1 x Violet

2 x TV 100

Conductor Material	: Bare Copper
Conductor Size	: 1.02mm
Insulation Material	: FPE
Overall Screen 1	: Bare Copper Foil
Overall Screen 2	: Bare Copper Wire Braid, (≥ 55% Coverage)
Sheath Material	: Low Smoke Halogen Free (LSHF)
Sheath Colour	: 1 x Black, 1 x White

Overall Construction

Sheath Material	: Low Smoke Halogen Free (LSHF)
Sheath Colour	: Pink + Violet Stripe

Electrical Characteristics

Cat 5E UTP

Nominal Impedance	: 100 ± 15 Ω (1-100MHz)
Max. Conductor Resistance @ 20°C	: ≤ 9.50 Ω/100m
Max. Conductor Resistance Unbalanced	: ≤ 5.0 %
Mutual Capacitance	: ≤ 5.6 nF/100m
Capacitance Unbalanced to Earth	: ≤ 300 pF/ 100m
Max. Delay Skew	: ≤ 45 ns/ 100m
Voltage Rating	: 30 V
Test Voltage	: 2.5kV (AC)

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Cat 6 UTP

Nominal Impedance : 100 ± 15 Ω (1-250MHz)
 Max. Conductor Resistance @ 20°C : ≤ 9.50 Ω/100m
 Max. Conductor Resistance Unbalanced : ≤ 5.0 %
 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)

2 x 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				Return Loss	
Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	dB
5	1.6	860	19.5	30 – 470	≥ 23
50	4.6	1000	21.5	470 – 862	≥ 20
100	6.5	1750	29.0	862 - 2150	≥ 18
200	9.5	2150	32.5		
460	15.0				

Cat 5E UTP Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	155	200	300	350	MHz
Attenuation	2.0	4.10	6.5	8.2	9.30	11.7	17.0	22.0	26.6	30.7	38.7	41.4	dB
Return Loss	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	10.1	9.0	7.2	6.6	dB
NEXT	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3	29.2	27.3	24.4	23.2	dB
PS NEXT	62.3	53.3	47.3	44.4	42.8	39.9	35.4	32.3	27.0	25.2	22.3	21.2	dB
ELFEXT	65.0	52.0	44.0	39.9	38.0	34.1	28.1	24.0	17.5	15.3	11.8	10.5	dB
PSELFEXT	61.0	49.0	41.0	36.9	35.0	31.1	25.1	21.0	11.8	9.6	6.1	4.7	dB

Cat 6 UTP Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	200	250	300	400	500	MHz
Attenuation	2.03	3.78	5.95	7.55	8.47	10.67	15.38	19.8	28.98	32.85	34.0	41.1	47.1	dB
Return Loss	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	9.2	8.0	7.0	dB
NEXT	74.3	65.3	59.3	56.2	54.8	51.9	47.7	44.3	39.8	38.3	34.0	31.9	30.4	dB
PS NEXT	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.4	29.3	27.6	dB
ELFEXT	67.8	55.8	49.7	47.8	41.8	37.9	31.9	27.8	21.8	19.8	14.6	12.1	10.2	dB
PSELFEXT	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	11.6	9.1	7.2	dB

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Physical Characteristics

Overall Diameter : 18.7 ± 1.0mm
 Bend Radius : 15 x OD
 Temperature Rating : -10°C to 70°C
 Weight : 250 kg/km

Standards

Cat 5E UTP LSHF

Manufactured in Accordance to : TIA/EIA 568-C.2, ISO/IEC 11801
 Approval : HDBaseT

Cat 6 UTP LSHF

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Overall Construction

Flame Retardant : BS EN 60332-1-2
 Low Smoke Generation : BS EN 61034-2
 Halogen Gas Emission : BS EN 60754-1&2
 RoHS3 Compliant : Yes
 CE Compliant : LVD (2014/35/EU), CPR (305/2011)
 CPR Classification : Eca (EN50575:2014+A1:2016)