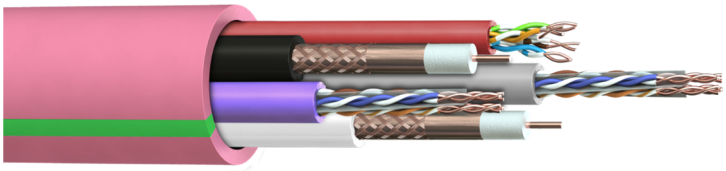
TruHome HA4 – 1 x Cat 5E + 2 x Cat 6 + 2 x TV 100 Coax PVC
Technical Datasheet

Part No: HA4-E00
Description: TruHome 1 x Cat 5E UTP, 2 x Cat 6 UTP and 2 x TV100 coaxial cable in a distinctive Pink PVC jacket with a Green 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	: PVC
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	: PVC
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	: PVC
Sheath Colour	: 1 x Black, 1 x White

Overall Construction

Sheath Material	: Polyvinyl Chloride (PVC)
Sheath Colour	: Pink + Green 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

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

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 PVC

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

Cat 6 UTP PVC

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

Overall Construction

Flame Retardant	: BS EN 60332-1-2
RoHS3 Compliant	: Yes
CE Compliant	: LVD (2014/35/EU), CPR (305/2011)
CPR Classification	: Eca (EN50575:2014+A1:2016)