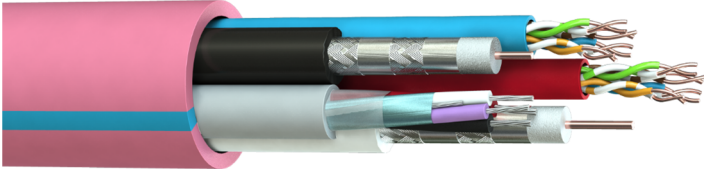


TruHome HA2 – Lighting Cable + 2 x Cat 5E + 2 x TV 100 PVC

Technical Datasheet

Part No: HA2
Description: TruHome 1 x Lighting Control Cable + 2 x Cat 5E UTP and 2 x TV100 coaxial cable in a distinctive Pink PVC jacket with a Blue stripe.



Construction

1 x Lighting Control

Power Cores

Conductor Material : Tinned Copper, 18(7)AWG
Insulation Material : Polyvinyl Chloride (PVC)
Number of Cores : 2
Core Colours : Red, Black

Data Pair

Conductor Material : Tinned Copper, 22(7)AWG
Insulation Material : Polyethylene (PE)
Number of Pairs : 1
Overall Screen : Aluminium Foil (100% Coverage)
Drain Wire : Tinned Copper, 24(7)AWG
Core Colours : Blue, White

Overall Sheath : Polyvinyl Chloride (PVC)
Sheath Colour : Grey

2 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 : 1 x Red, 1 x Blue

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 + Blue Stripe

Part Number: HA2
Date: 25/11/2019
Revision: 1.0
Author: GB Checked: GB
Page Number: 1 of 3

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Electrical Characteristics

Lighting Control

Max. Conductor Resistance 18(7)AWG : 24.1 Ω /km
 22(7)AWG : 55.2 Ω /km
 Insulation Resistance : > 200 M Ω .M
 Capacitance 18(7)AWG : 45 pF/m \pm 10
 Impedance 18(7)AWG : 120 Ω \pm 20
 Voltage Rating : 300V

Cat 5E UTP

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

2 x TV 100

Nominal Impedance : 75 \pm 3 Ω
 Max. Conductor Resistance @ 20°C : \leq 23.5 Ω /km
 Outer Conductor Resistance @ 20°C : \leq 15 Ω /km
 Capacitance : 53 \pm 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	\geq 23
470 – 862	\geq 20
862 - 2150	\geq 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

Physical Characteristics

Overall Diameter : 19.5 \pm 1.0mm
 Bend Radius : 15 x OD
 Temperature Rating : -10°C to 70°C
 Weight : 270 kg/km

Part Number: HA2
 Date: 25/11/2019
 Revision: 1.0
 Author: GB Checked: GB
 Page Number: 2 of 3

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Standards

Cat 5E UTP PVC

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

Overall Construction

Flame Retardant : BS EN 60332-1-2
RoHS2 Compliant : Yes
CE Compliant : LVD (2014/35/EU)

Part Number: HA2
Date: 25/11/2019
Revision: 1.0
Author: GB Checked: GB
Page Number: 3 of 3