

● HDBaseT™ Recommended Cable – Screened Hyper Speed

■ Description

- Rated temperature: 75°C
- Reference standard: UL444, UL 1666 IEC 61156-7 & ISO 11801
- Product standard certification: UL
- Flame test: CMR (UL 1666)
- Solid bare copper conductor
- Colour-coded PE insulation
- PVC Jacket
- Packaging: Per customer request

■ Application

- 100Base-T4; 100Base-TX
- 100VG-AnyLAN; 1000 Base-T
- 1000Base-TX; HDBaseT
- 155Mbps ATM; 622Mbps ATM
- 10 Gb Ethernet

■ Product figure



HT-A0422AP7A-PRP-001

■ Physical characteristics

Structure	Construction	S/FTP	
	Pairs	4	
Conductor	AWG	22 AWG	
	Conductor material	Solid bare copper	
	Conductor nominal dimension	0.63 mm	
Insulation	Insulation material	Foam PE	
	Insulation nominal dimension	1.5 mm	
	Number colour	White/ Blue(Stripe)-Blue	
	(Stripe marking)	White /Orange(Stripe)-Orange	
		White /Green(Stripe)-Green White / Brown(Stripe)-Brown	
Cabling	Twisting lay length	≤30mm	
	Cabling lay length	≤200mm	
Filler	Filler material	N/A	
Binder	Binder material	N/A	
Shield	Individual shield & material	AL-Foil	
	Primary overall shield & material	Tinned copper braid	
	Secondary overall shield &	N/A	
	Shield coverage (%)	≥40%	
	Drain wire Nom	N/A	
Outer jacket	Outer jacket material	PVC	
	Overall nominal dimension	8.4 mm	
	Outer jacket rip cord	N/A	
	Outer jacket colour	GREEN	
Mechanical characteristics	Operating temperature range	-20°C ~ +75°C	
	Bulk cable nominal weight	73 kg/km	
	Max. recommended pulling	80 N	
	Min. bend radius (Install)	8 x O.D.	
	Outer jacket tensile strength	≥ 13.8 MPa	
	Outer jacket elongation	≥ 100%	
	Outer jacket aging condition	100 °C x 168 hrs	
	After aging, Tensile strength	≥75% of unaging	
	After aging, Elongation	≥50% of unaging	
	Cold bend	No crack (@ -20°C x 4hrs)	
	Electrical characteristics	Nom. mutual capacitance	≅ 5.6 nF/100m (@ 1kHz)
		Pair to ground capacitance	≅ 1200 pF/km
		Nominal velocity of propagation	74%
Max. delay skew		25 ns/100m	
Max. conductor DC resistance		8.5 Ω/100m (@ 20°C)	
Max. Conductor resistance		2% (@ 20°C)	
Min. insulation resistance		5000 MΩ/km	
Max. operating voltage - UL	300 V		



● HDBaseT™ Recommended Cable – Screened Hyper Speed

■ Marking

HUAXUN HDBaseT™ Recommended Cable S/FTP 22AWG 4PAIR C(UL)US CMR E314032-★ Tested to 1200MHz IEC 61156-7 CE
RoHS AREA A B C D E F G DEVICE 0 1 2 3 4 5 6 7 8 9 ***METER YYMMDDJJNN

■ Electrical characteristics

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT	PSELFEXT	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	Max (ns/100m)
4	115.2	86.8	3.46	23.0	78.0	75.0	78.0	75.0	518.0
10	111.9	89.4	5.38	25.0	78.0	75.0	74.0	71.0	511.4
16	111.9	89.4	6.80	25.0	78.0	75.0	69.9	66.9	509.0
25	112.9	88.5	8.53	24.3	78.0	75.0	66.0	63.0	507.2
31.25	114.1	87.7	9.55	23.6	78.0	75.0	64.1	61.1	506.4
62.5	118.3	84.5	13.66	21.5	78.0	75.0	58.1	55.1	504.6
100	121.9	82.0	17.48	20.1	76.0	73.0	54.0	51.0	503.6
200	128.8	77.6	25.28	18.0	71.5	68.5	48.0	45.0	502.5
300	131.6	76.0	31.51	17.3	68.8	65.8	44.5	41.5	502.1
600	131.6	76.0	46.30	17.3	64.3	61.3	38.4	35.4	501.5
800	137.4	72.8	54.54	16.1	62.5	59.5	35.9	32.9	501.3
1000	142.8	70.0	62.03	15.1	61.0	58.0	34.0	31.0	501.1
1200	147.8	67.6	68.99	14.3	59.8	56.8	32.4	29.4	501.0

* Cable that meet the requirements of the characteristic impedance are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance. * If FEXT loss is greater than 90 dB, EL FEXT loss may not be calculated. *

