CAT7A AWG22 S/FTP HD Digital Communication Cable

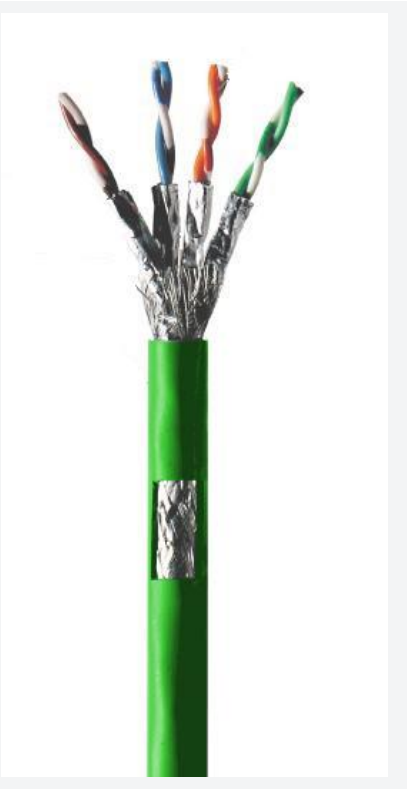
Description

- Rated temperature：75℃
- 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



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℃ ~ +75℃
	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 ℃ x 168 hrs
	After aging, Tensile strength	≧75% of unaging
	After aging, Elongation	≧50% of unaging
	Cold bend	No crack (@ -20℃ 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	8.5Ω/100m (@ 20℃)
	Max. Conductor resistance	2% (@ 20℃)
	Min. insulation resistance	5000 MΩ/km
	Max. operating voltage - UL	300 V

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■ Marking

HUAXUN HDBaseT™ 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. *