

Cat 7A S/FTP

HITACHI Inspire the Next

Product Highlights

- REACH & RoHS 2 compliant.
- Made in USA.
- Low Smoke Plenum construction.
- Tested to 1 GHz.
- Compliant to ISO 11801 Class FA (Category 7A) Requirements.
- Conductor pairs are individually wrapped in foil.
- Overall braid.
- Supports up to 180 watts of power.

Packaging

- 1,000 foot (305m) reels

Applications

- Including:
 - HDBase-T A & B
 - 10 Gigabit Ethernet (IEEE 802.3an)
 - 5 Gigabit Ethernet (IEEE 802.3bz)
 - 2.5 Gigabit Ethernet (IEEE 802.3bz)
 - Gigabit Ethernet (IEEE 802.3ab)
 - 100 Mbps Ethernet (IEEE 802.3u)
 - 1000 Mbps ATM
 - 622 Mbps ATM
 - 15W PoE (IEEE 802.3af)
 - 30W PoE+ (IEEE 802.3at)
 - 60W PoE++ (IEEE 802.3bt Type 3)
 - 100W PoE++ (IEEE 802.3bt Type 4)

Temp Range

- Storage Temperature
-40C to +60C (-40F to +140F)
- Installation Temperature
0C to +60C (+32F to +140F)
- Operation Temperature
-20C to +105C (-4F to +221F)

Cat 7A (Plenum)

(c(UL)us Listed Type CMP, CSA Type FT6)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D. in.	mm	CABLE WEIGHT lbs/1000ft	kg/305m
30250-8-XXY	4	.326	8.28	57.10	25.90

Building a Part Number

Base Part Number Ex.	No. of Conductors	Jacket Color	Reel Type
30250	8	XX	Y

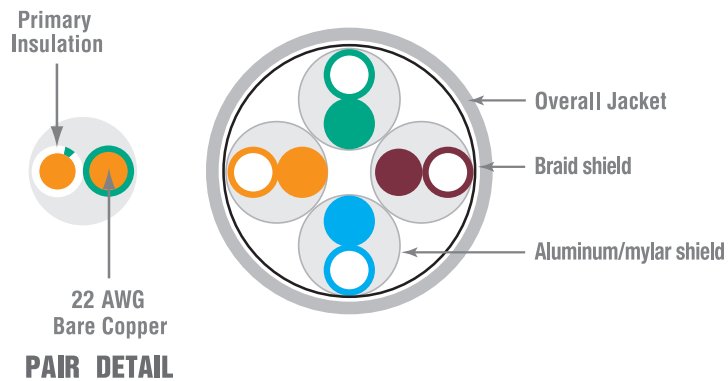
Jacket Colors (XX):

Black(BK); Blue(BL); Brown(BR); Gray(GA); Green(GR); Red(RD); White(WH); Yellow(YE)

Reel Type (Y):

Reels(3)

Features



DIELECTRIC MATERIALS	PLENUM
Primary Insulation	Plenum-rated fluoropolymer
Overall Jacket	Low-smoke, flame-retardant thermoplastic

Hitachi Cable America reserves the right to revise any specifications.

Electrical Characteristics

Maximum resistance unbalance	2% (Within Pairs), 4% (Between Pairs)
Maximum capacitance unbalance	160 pF/100 meters
Maximum delay skew	25 ns/100 meters
Nominal velocity of propagation (NVP)	82%
Voltage Rating	300 Volts
LP Rating (UL)	.9 Amps/conductor



Transmission Specifications

IEC 61156-5, 2nd ed. Category 7A Compliant

	Ins. Loss	NEXT	PS NEXT	ACR	PSACR	ACRF	PS ACRF	TCL	ELTCTL	Return Loss	CA (Type1)
Freq. (MHz)	Max	Min	Min	Cal. Min	Cal. Min	Min	Min	Min	Min	Min	Min
4	3.7	78.0	75.0	74.3	71.3	78.0	75.0	34.0	23.0	23.0	-
8	5.2	78.0	75.0	72.8	69.8	77.2	74.2	31.0	16.9	24.5	-
10	5.8	78.0	75.0	72.2	69.2	75.3	72.3	30.0	15.0	25.0	-
16	7.3	78.0	75.0	70.7	67.7	71.2	68.2	28.0	10.9	25.0	-
20	8.2	78.0	75.0	69.8	66.8	69.3	66.3	27.0	9.0	25.0	-
25	9.2	78.0	75.0	68.8	65.8	67.3	64.3	26.0	7.0	24.3	-
31.25	10.3	78.0	75.0	67.7	64.7	65.4	62.4	25.1	5.1	23.6	85.0
62.5	14.6	78.0	75.0	63.4	60.4	59.4	56.4	22.0	-	21.5	85.0
100	18.5	75.4	72.4	56.9	53.9	55.3	52.3	20.0	-	20.1	85.0
200	26.5	70.9	67.9	44.4	41.4	49.3	46.3	17.0	-	18.0	79.0
300	32.7	68.2	65.2	35.6	32.6	45.8	42.8	-	-	17.3	75.5
400	38.0	66.4	63.4	28.4	25.4	43.3	40.3	-	-	17.3	73.0
500	42.8	64.9	61.9	22.2	19.2	41.3	38.3	-	-	17.3	71.0
600	47.1	63.7	60.7	16.6	13.6	39.7	36.7	-	-	17.3	69.4
700	51.1	62.7	59.7	11.6	8.6	38.4	35.4	-	-	17.3	68.1
800	54.9	61.9	58.8	7.0	3.9	37.2	34.2	-	-	17.3	66.9
900	58.5	61.1	58.1	2.6	-	36.2	33.2	-	-	17.3	65.9
1000	61.9	60.4	57.4			35.3	32.3			17.3	65.0

All values are dB/100m.