

# Supra 10G™ PLENUM

UTP Copper

## HITACHI Inspire the Next

### Product Highlights

- REACH & RoHS compliant
- Low Smoke CMP construction
- Unique spline construction is installation and termination friendly
- Guaranteed minimum performance
- Tested from 1 to 660 Mhz
- UL Verified Category 6A
- Performance that exceeds TIA and ISO Category 6A requirements
- Patented non-concentric design increases Alien crosstalk performance

### Packaging

- 1,000 foot (305m) reels

### Options

- CMP-50 rated cables available
- Low smoke zero halogen available; Part #30224-8

### Applications

- Including:
  - HDBase-T
  - 10GBASE-T 10 Gigabit Ethernet
  - 1000BASE-T Gigabit Ethernet
  - 1000 Mbps ATM
  - 622 Mbps ATM
  - 100BASE-T Ethernet
  - Broadband Video
  - POE
  - POE+

### Temp Range

- Storage Temperature  
-40C to +60C (-40F to +140F)
- Installation Temperature  
0C to +60C (+32F to +140F)
- Operation Temperature  
-20C to +75C (-4F to +167F)

## Supra 10G™ (Plenum)

(cUL)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
30218-8-XXY	4	.31	7.87	47.25	21.43

## Supra 10G™ (Riser)

(cUL)us Listed Type CMR, CSA Type FT4)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D. in.	mm	CABLE WEIGHT lbs/1000ft	kg/305m
30222-8-XXY	4	.32	8.13	36.72	16.65

### Building a Part Number

Base Part Number Ex.	No. of Conductors	Jacket Color	Reel Type
30218	8	XX	Y

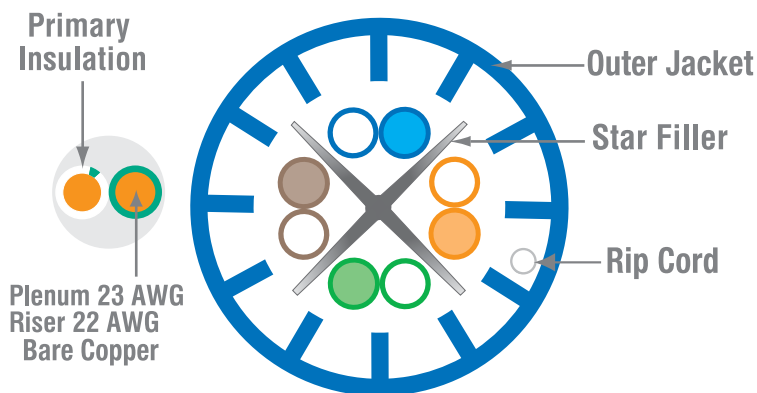
Jacket Colors (XX):

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

Reel Type (Y):

Reels(3)

## Features



### PAIR DETAIL

DIELECTRIC MATERIALS	RISER	PLENUM
Primary Insulation	Polyolefin	Plenum-rated fluoropolymer
Overall Jacket	Flame-retardant thermoplastic	Low-smoke, flame-retardant thermoplastic
Star Filler	Flame-retardant thermoplastic	Plenum-rated polymer

Hitachi Cable America reserves the right to revise any specifications.

## Electrical Characteristics

Input Impedance	100 ± 15Ω (1.0 to 100 MHz) 100 ± 20Ω (100 to 250 MHz) 100 ± 25Ω (251 to 500 MHz)
Maximum conductor resistance	9.38 Ω/100 meters @ 20C
Maximum resistance unbalance	3%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	riser, 68% plenum, 71%
Voltage Rating	300 Volts

Unique patented non-concentric design produces Alien Crosstalk performance that far exceeds the TIA standard.

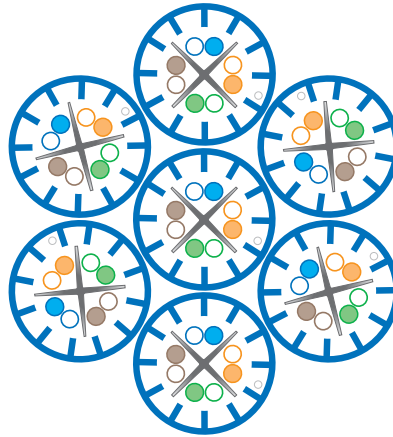


Photo is for representation purposes only.

## Transmission Specifications

ANSI/TIA 568-C.2 Category 6A Verified

ISO/IEC 11801, 2nd ed. Class EA Compliant

	Ins. Loss	NEXT	PSNEXT	ACR	PSACR	ACRF	PSACRF	Return Loss	PSANEXT	PSAACRF
Freq. (MHz)	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1	2.1	74.3	72.3	72.2	70.2	67.8	64.8	20.0	67.0	67.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	67.0	66.2
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5	67.0	60.1
10	5.9	59.3	57.3	53.4	51.4	47.8	44.8	25.0	67.0	58.2
16	7.5	56.2	54.2	48.8	46.8	43.7	40.7	25.0	67.0	54.1
20	8.4	54.8	52.8	46.4	44.4	41.8	38.8	25.0	67.0	52.2
25	9.4	53.3	51.3	44.0	42.0	39.8	36.8	2.3	67.0	50.2
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	23.6	67.0	48.3
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.9	21.5	65.6	42.3
100	19.1	44.3	42.3	25.2	23.2	27.8	24.8	20.1	62.5	38.2
155	24.1	41.4	39.4	17.4	15.4	24.0	21.0	18.8	59.6	34.4
200	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0	58.0	32.2
250	31.1	38.3	36.3	7.3	5.3	19.8	16.8	17.3	56.5	30.2
300	34.3	37.1	35.1	2.9	0.9	18.3	15.3	16.8	55.3	28.7
350	37.2	36.1	34.1	-	-	16.9	13.9	16.3	54.3	27.3
400	40.1	35.3	33.3	-	-	15.8	12.8	15.9	53.5	26.2
500	45.3	33.8	31.8	-	-	13.8	10.8	15.2	52.0	24.2
555*	47.9	33.1	31.1	-	-	12.9	9.9	14.9	51.3	23.3
660*	52.8	32.0	30.0	-	-	11.4	8.4	14.4	50.2	21.8

\*Frequencies beyond the TIA and ISO requirements are for information only.  
All values are dB/100m.