

Supra 10G™

Product Highlights

- RoHS compliant
- Tested from 1 to 500 Mhz
- UL Verified Category 6A
- Performance that exceeds TIA and ISO Category 6A requirements
- Patented non-concentric design increases Alien crosstalk performance
- Unique spline construction is installation and termination friendly

Packaging

- 1,000 foot (305m) reels

Options

- CMP-50 rated cables available
- Available in a 4-pair construction
- Low smoke zero halogen available; Part #30224-8

Applications

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

Supra 10G™ (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
30218-8	4	.34	8.63	53.3	24.18

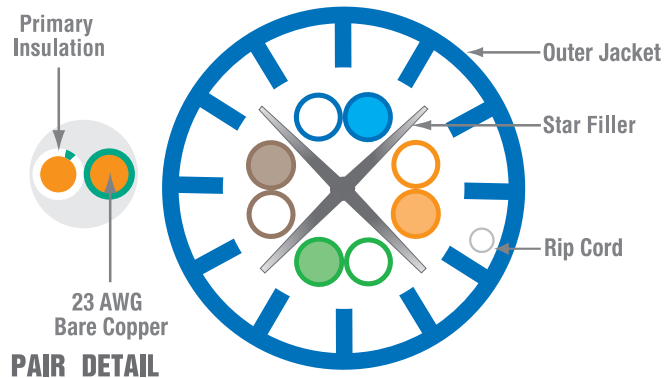
Supra 10G™ (Riser)

(c(UL)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	4	.34	8.63	42.0	19.05

To build a complete HCM part number, visit page 100.

Features



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

Enhanced UTP Category 6A

UTP
Copper

Electrical Characteristics

Input Impedance	100 ± 15Ω (.772 to 500 MHz) 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%



Transmission Specifications

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

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

Freq. (MHz)	Ins. Loss	NEXT	PS NEXT	ACR	PSACR	ACRF	PS ACRF	Return Loss
	Max	Min	Min	Min	Min	Min	Min	Min
1	2.1	74.3	72.3	72.2	70.2	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5
10	5.9	59.3	57.3	53.4	51.4	47.8	44.8	25.0
16	7.5	56.2	54.2	48.7	46.7	43.7	40.7	25.0
20	8.4	54.8	52.8	46.4	44.4	41.8	38.8	25.0
25	9.4	53.3	51.3	43.9	41.9	39.8	36.8	24.3
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	23.6
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.9	21.5
100	19.1	44.3	42.3	25.2	23.2	27.8	24.8	20.1
200	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0
250	30.9	38.1	36.4	7.2	5.5	20.1	17.1	17.3
300	34.3	37.1	35.1	2.8	0.8	18.3	15.3	16.8
400	40.1	35.3	33.3	-4.8	-6.8	15.8	12.8	15.9
500	45.3	33.8	31.8	-11.5	-13.5	13.8	10.8	15.2

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

Unique patented non-concentric design produces Alien Crosstalk that far exceeds the proposed standards.

