

Supra 10G™ F/UTP

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HitachiCable

Product Highlights

- REACH & RoHS compliant
- Low Smoke CMP construction
- Tested from 1 to 660 MHz
- UL Verified Category 6A
- Small O.D. allows more cables per conduit
- Proven Shield Technology improves RFI, EMI and Alien Crosstalk performance

Packaging

- 1,000 foot (305m) reels

Options

- Available in LSZH
- Available in a 4-pair construction

Applications

- Including:
 - 10G BASE-T 10 Gigabit Ethernet
 - 1000 BASE-T Gigabit Ethernet
 - 1000 Mbps ATM
 - 622 Mbps ATM
 - 100 BASE-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 +50C (-4F to +122F)

Category 6A F/UTP (Plenum)

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

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT lbs/1000ft	kg/305m
		in.	mm		
30233-8	4	.29	7.37	40.34	18.29

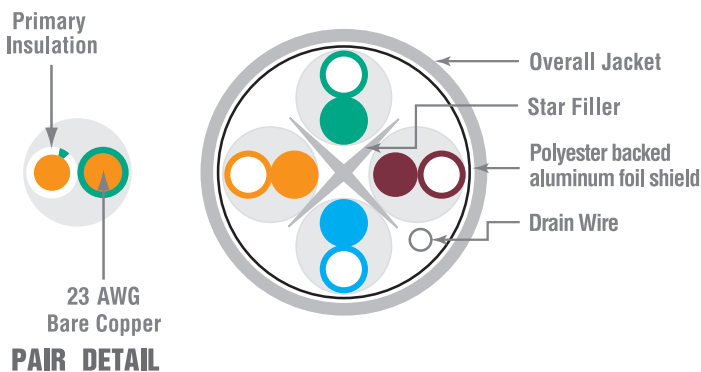
Category 6A F/UTP (Riser)

(c(UL)us Listed Type CMR, CSA Type FT4)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT lbs/1000ft	kg/305m
		in.	mm		
30234-8	4	.29	7.37	39.02	17.70

To build a complete part number, visit page 104.

Features



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.

Enhanced F/UTP Category 6A

Electrical Characteristics

Input impedance	100 ± 15Ω (1.0 to 100 MHz) 100 ± 20Ω (100 to 250 MHz) 100 ± 25Ω (251 to 500 MHz)
Maximum resistance unbalance	3%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	68%, riser 70%, plenum



F/UTP Copper

Transmission Specifications

TIA/EIA-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	55.5	53.5	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	48.7	46.7	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	43.9	41.9	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	21.8	42.1	40.3	20.3	18.6	24.8	21.8	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	33.9	38.1	36.4	4.2	2.5	20.1	17.1	17.3	56.5	30.2
300	34.3	37.1	35.1	2.8	0.8	18.3	15.3	16.8	55.3	28.7
350	38.6	36.2	34.2	-	-	17.0	14.1	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*	47.5	31.8	29.8	-	-	12.1	8.9	14.9	51.3	23.3
660*	49.4	29.8	27.8	-	-	10.1	7.1	14.1	50.2	21.8

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