

Cat 5e

Product Highlights

- RoHS compliant
- Tested from 1 to 400 MHz
- UL Verified Category 5e

Packaging

- 1,000 foot (305m) reels
- 1,000 foot (305m) Reellex (featuring reverse sequential numbering)
- 1,000 foot (305m) Reel-in-a-Box

Options

- CMP-50 rated cables available
- Available in a 4-pair construction

Applications

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

Category 5e (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
39419-8	4	.18	4.57	21.0	9.5

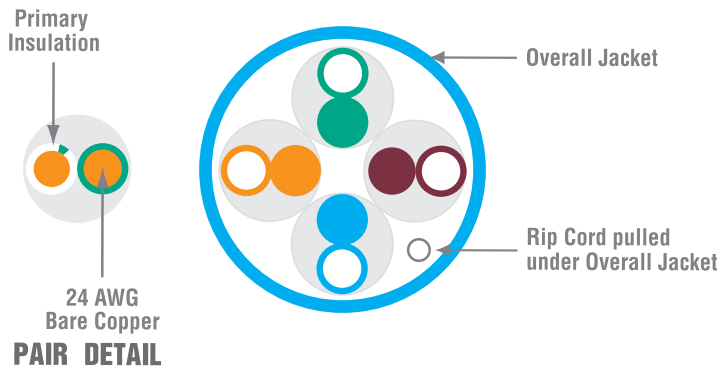
Category 5e (Riser)

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

HITACHI PART NO.	NO. OF PAIRS in.	CALCULATED CABLE O.D. mm	lbs/1000ft	CABLE WEIGHT kg/305m	
38696-8	4	.17	4.55	20.0	9.1

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

HCM reserves the right to revise any specifications.

UTP Category 5e

UTP
Copper

Electrical Characteristics

Input impedance	100 ± 15Ω (0.772 to 100 MHz)
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	68%, riser 70%, plenum

Transmission Specifications

TIA/EIA-568-C.2 Category 5e Verified

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

Freq. (MHz)	Ins Loss		NEXT		PSNEXT		ACR		PSACR		ACRF		PSACRF		Return Loss	
	Std.	Max	Std.	Min	Std.	Min	Cal.	Min	Cal.	Min	Std.	Min	Std.	Min	Std.	Min
1	2.0	2.0	65.3	65.3	62.3	62.3	62.9	63.3	59.9	60.3	63.8	63.8	60.8	60.8	20.0	20.0
4	4.1	4.1	56.3	56.3	53.3	53.3	51.4	52.2	48.4	49.2	51.8	51.8	48.8	48.8	23.0	23.0
8	5.8	5.8	51.8	51.8	48.8	48.8	44.9	46.0	41.9	43.0	45.7	45.7	42.7	42.7	24.5	24.5
10	6.5	6.5	50.3	50.3	47.03	47.3	42.5	43.8	39.5	40.8	43.8	43.8	40.8	40.8	25.0	25.0
16	8.2	8.2	47.2	47.2	44.2	44.2	37.3	39.0	34.3	36.0	39.7	39.7	36.7	36.7	25.0	25.0
31.25	11.7	11.7	45.8	42.9	39.9	39.9	28.8	31.2	25.8	28.2	33.9	33.9	30.9	30.9	23.6	23.6
62.5	17.0	17.0	44.3	38.4	35.4	35.4	18.0	21.4	15.0	18.4	27.9	27.9	24.9	24.9	21.5	21.5
100	22.0	22.0	35.3	35.3	32.3	32.3	8.9	13.3	5.9	10.3	23.8	23.8	20.8	20.8	20.1	20.1
155*	-	28.1	-	32.4	-	29.4	-	4.3	-	1.3	-	20.0	-	17.0	-	18.8
200*	-	32.4	-	30.8	-	27.8	-	-	-	-	-	17.8	-	14.8	-	18.0
250*	-	36.9	-	29.3	-	26.3	-	-	-	-	-	15.8	-	12.8	-	17.3
400*	-	48.5	-	26.3	-	23.3	-	-	-	-	-	11.8	-	8.8	-	15.9

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

