

Cat 5e FUTP

Product Highlights

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

Packaging

- 1,000 foot (305m) reels

Options

- 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 FUTP (Plenum)

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

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
38653-8	4	.25	6.48	30.6	13.9

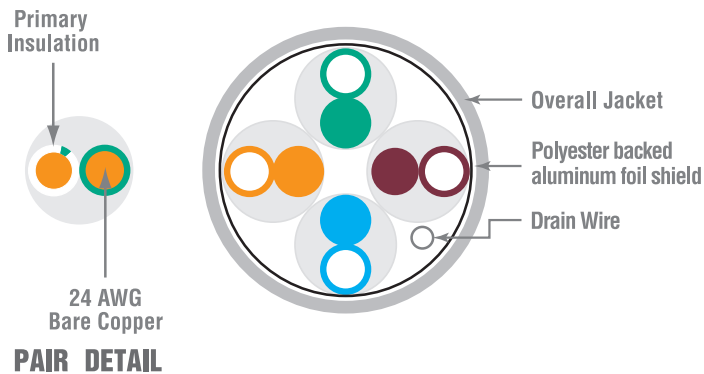
Category 5e FUTP (Riser)

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

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
39092-8	4	.25	6.48	25.0	11.4

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.

FUTP Category 5e

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	PS NEXT	ACR	PSACR	ACRF	PS ACRF	Return Loss
	Max	Min	Min	Min	Min	Min	Min	Min
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.8	48.8	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.9	24.9	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	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/100 m.

