

Cat 6 FUTP

Product Highlights

- RoHS compliant
- Tested from 1 to 555 MHz
- UL Verified Category 6

Packaging

- 1,000 foot (305m) reels

Options

- Available in a 4-pair construction

Applications

- Including:
 - 10G BASE-T 10 Gigabit Ethernet (limited distance)
 - 1000 BASE-T Gigabit Ethernet
 - 1000 Mbps ATM
 - 622 Mbps ATM
 - 100 BASE-T Ethernet
 - Broadband Video
 - POE
 - POE+

Category 6 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
30154-8	4	.29	7.37	40.0	18.2

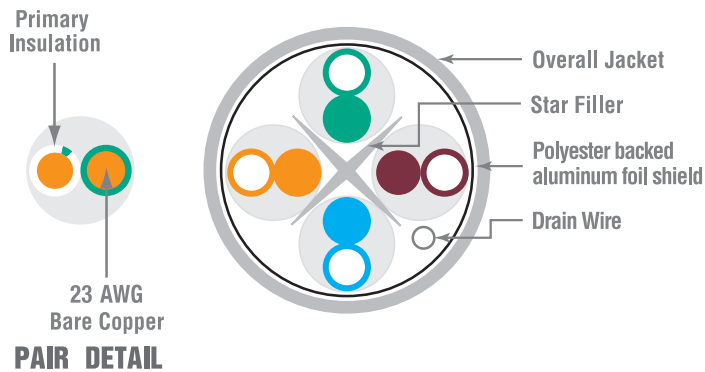
Category 6 FUTP (Riser)

(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
30129-8	4	.28	7.24	36.0	16.2

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

HCM reserves the right to revise any specifications.

FUTP Category 6

FUTP Copper

Electrical Characteristics

Input impedance	100 ± 15Ω (0.772 to 250 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 6 Verified

ISO/IEC 11801, 2nd ed. Class E 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	74.3	72.3	72.3	70.3	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	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	21.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3
350*	39.8	36.1	34.1	-	-	16.9	13.9	16.3
555*	52.0	33.1	31.1	-	-	12.9	9.9	14.9

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

