

Product Highlights

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

TIA PARAMETER	GUARANTEED HEADROOM
NEXT loss	+3 dB
PSNEXT loss	+3 dB
ACRF	+3 dB
PSACRF	+3 dB

Packaging

- 1,000 foot (305m) reels
- 1,000 foot (305m) Reelex™ (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:
 - 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+

HCM reserves the right to revise any specifications.

Plus™ (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
30025-8	4	.20	5.1	25.35	11.5

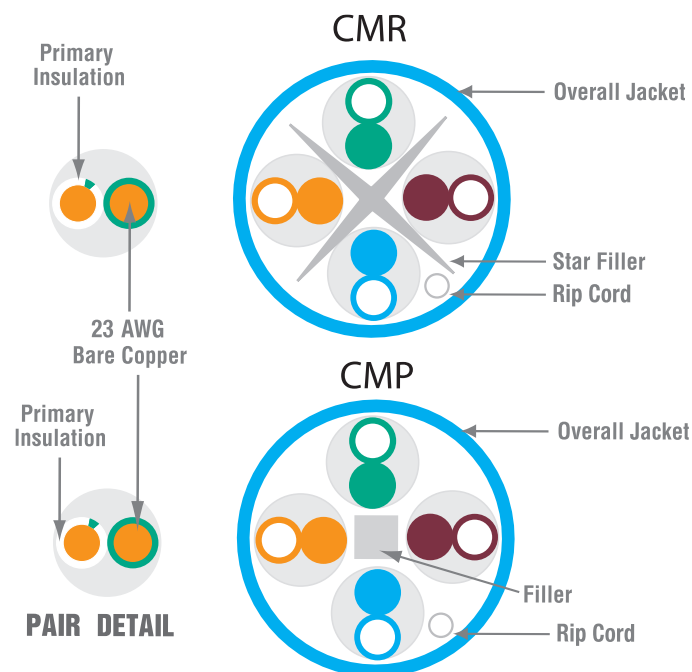
Plus™ (Riser)

(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
30024-8	4	.23	5.84	23.0	10.5

To build a complete HCM part number, visit page 126.

Features



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

Electrical Characteristics

Input Impedance	100 ± 15Ω (.772 to 250 MHz)
Maximum conductor resistance	9.38 Ω/100 meters @ 20°C
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	riser, 68% plenum, 70%



UTP Copper

Transmission Specifications

TIA/EIA-568-C.2 Category 6 Verified
ISO/IEC 11801, 2nd ed. Class E 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	74.3	77.3	72.3	75.3	72.3	75.3	70.3	73.3	67.8	70.8	64.8	67.8	20.0	20.0
4	3.8	3.8	65.3	68.3	63.3	66.3	61.5	64.5	59.5	62.5	55.8	58.8	52.8	55.8	23.0	23.0
8	5.3	5.3	60.8	63.8	58.8	61.8	55.5	58.5	53.5	56.5	49.7	52.7	46.7	49.7	24.5	24.5
10	6.0	6.0	59.3	62.3	57.3	60.3	53.3	56.3	51.3	54.3	47.8	50.8	44.8	47.8	25.0	25.0
16	7.6	7.6	56.2	59.2	54.2	57.2	48.6	51.6	46.6	49.6	43.7	46.7	40.7	43.7	25.0	25.0
31.25	10.7	10.7	51.9	54.9	49.9	52.9	41.2	44.2	39.2	42.2	37.9	40.9	34.9	37.9	23.6	23.6
62.5	15.4	15.4	47.4	50.4	45.4	48.4	32.0	35.0	30.0	33.0	31.9	34.9	28.9	31.9	21.5	21.5
100	19.8	19.8	44.3	47.3	42.3	45.3	24.5	27.5	22.5	25.5	27.8	30.8	24.8	27.8	20.1	20.1
200	29.0	29.0	39.8	42.8	37.8	40.8	10.8	13.8	8.8	11.8	21.8	24.8	18.8	21.8	18.0	18.0
250	32.8	32.8	38.3	41.3	36.3	39.3	5.5	8.5	3.5	6.5	19.8	22.8	16.8	19.8	17.3	17.3
300*	-	36.4	-	40.1	-	38.1	-	3.7	-	-	-	21.3	-	18.3	-	16.8
350*	-	39.8	-	39.1	-	37.1	-	-	-	-	-	19.9	-	16.9	-	16.3
555*	-	52.0	-	36.1	-	34.1	-	-	-	-	-	15.9	-	12.9	-	14.9

*Frequencies beyond the TIA and ISO requirements are for information only.