

Product Highlights

- Tested from 1 to 555 MHz
- Offers guaranteed headroom to TIA and ISO Category 6 requirements

TIA PARAMETER	GUARANTEED WORST CASE HEADROOM
NEXT loss	+1 dB
PSNEXT loss	+1 dB
ELFEXT	+3 dB
PSELFEXT	+3 dB
Return loss	N/A

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



4-pair

Diagram scale approx. 3:1

Plus™ (Riser)

(MPR, CMR, c(UL) or CSA Type FT4)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
30024-8	4	.225	5.72	23.0	10.5

Transmission Specifications

TIA/EIA-568-B.2-1 Category 6 Compliant

ISO/IEC 11801, 2nd ed. Category 6 Compliant

Freq. (MHz)	Ins. loss (dB/100 m)	NEXT loss (dB)	PSNEXT loss (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return loss (dB)
1	2.0	75.3	73.3	73.3	71.3	70.8	67.8	20.0
4	3.8	66.3	64.3	62.5	60.5	58.8	55.8	23.0
8	5.3	61.8	59.8	56.5	54.5	52.7	49.7	24.5
10	6.0	60.3	58.3	54.3	52.3	50.8	47.8	25.0
16	7.6	57.2	55.2	49.6	47.6	46.7	43.7	25.0
31.25	10.7	52.9	50.9	42.2	40.2	40.9	37.9	23.6
62.5	15.4	48.4	46.4	33.0	31.0	34.9	31.9	21.5
100	19.8	45.3	43.3	25.5	23.5	30.8	27.8	20.1
200	29.0	40.8	38.8	11.8	9.8	24.8	21.8	18.0
250	32.8	39.3	37.3	6.5	4.5	22.8	19.8	17.3
350*	39.8	37.1	35.1	-	-	19.9	16.9	16.3
555*	52.0	34.1	32.1	-	-	15.9	12.9	14.9

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

Category 6 UTP

UTP Copper

Plus™ (Plenum)

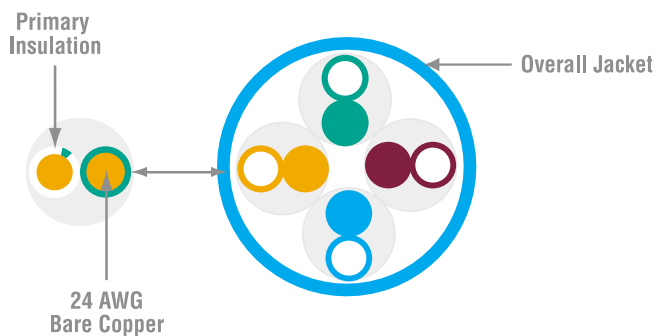
(MPP, CMP, c(UL) or CSA Type FT6)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
30025-8	4	.216	5.48	27.0	12.3

Electrical Characteristics

Input Impedance	100 ± 15 (.772 to 250 MHz)
Maximum conductor resistance	9.38 /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%

Features



DIELECTRIC MATERIALS

Primary Insulation
Overall Jacket

RISER

Polyolefin
Flame-retardant thermoplastic

PLENUM

FEP
Low-smoke, flame-retardant thermoplastic

