

Product Highlights

- Suitable for direct burial applications
- Cable core is filled with non-conductive, water-blocking gel
- Rugged black polyolefin jacket
- Dry-block design available

Packaging

- 1,000 foot (305m) reels

Options

- Category 3 outdoor cables available
- Available in a 4-pair construction



Category 5e and Category 6 4-pair

Diagram scale approx. 3:1

Category 5e and Category 6 Outdoor

TIA/EIA-568-B.2 Category 5e Compliant

ISO/IEC 11801, 2nd ed. Category 5 Compliant

Tested from 1 to 100 MHz

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D. in.	CABLE mm	WEIGHT lbs/1000ft	kg/305m
Category 5e 30145-8	4	0.23	5.8	31.0	14.1
Category 6 30180-8	4	0.245	6.2	35	15.9

Transmission Specifications

TIA/EIA-568-B.2 Category 5e Compliant

ISO/IEC 11801, 2nd ed. Category 5 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	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	20.6	20.1

Electrical Characteristics

Input impedance	100 ± 15 (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)	63%

Outdoor Cable

Special Applications

Transmission Specifications

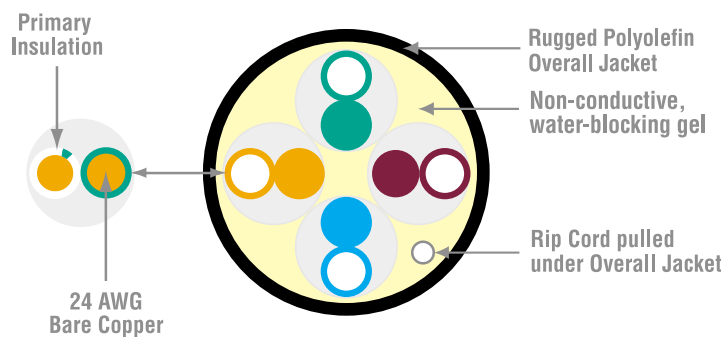
TIA/EIA-568-B.2-1 Category 6 Compliant

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.

Features



DIELECTRIC MATERIALS

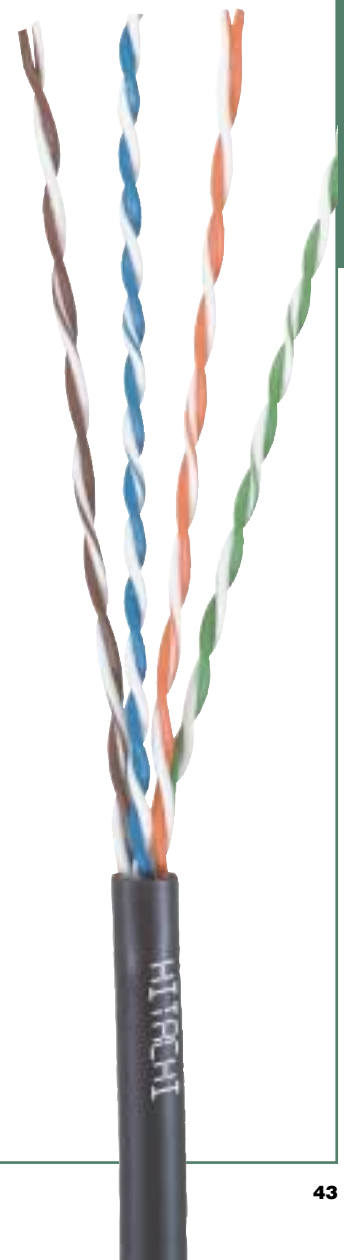
Primary Insulation

Overall Jacket

OUTDOOR UTP CABLES

Polyolefin

Medium density polyolefin



Special Applications