

# Cat 6 DryBit™

**HITACHI**  
Inspire the Next

## Product Highlights

- REACH & RoHS compliant.
- Made in USA.
- Guaranteed minimum performance.
- Tested from 1 to 555 MHz.
- UL Verified Category 6.
- UL Verified (UL B627696) for long term water submersion.
- UL Listed for use in plenum areas.
- Specifically designed for below-grade conduit or other environments where water is likely to infiltrate.
- No-gel construction simplifies termination.
- Drybit Barrier ensures optimum electrical performance even in harsh environments.
- Supports up to 100 watts of power.
- Available in both UTP and FUTP.
- Standard jacket color is black. Custom colors available.

## Packaging

- 1,000 foot (305m) reels.

## Applications

- Including:
  - 5 Gigabit Ethernet (IEEE 802.3bz)
  - 2.5 Gigabit Ethernet (IEEE 802.3bz)
  - Gigabit Ethernet (IEEE 802.3ab)
  - 100 Mbps Ethernet (IEEE 802.3u)
  - 1000 Mbps ATM
  - 622 Mbps ATM
  - 15W PoE (IEEE 802.3af)
  - 30W PoE+ (IEEE 802.3at)
  - 60W PoE++ (IEEE 802.3bt Type 3)
  - 100W PoE++ (IEEE 802.3bt Type 4)

## Temp Range

- Storage Temperature  
-40°C to +70°C (-40°F to +158°F).
- Installation Temperature  
0°C to +60°C (+32°F to +140°F).
- Operation Temperature  
-40°C to +70°C (-40°F to +158°F).

### Installation Note:

"During installation, take precautions to ensure any water present in pathway does not enter the open end of the cable. Water infiltration via the open ends of the cable will negatively impact cable performance and void any applicable product warranty."

## DryBit™ Indoor-Outdoor CMP UTP (Plenum)

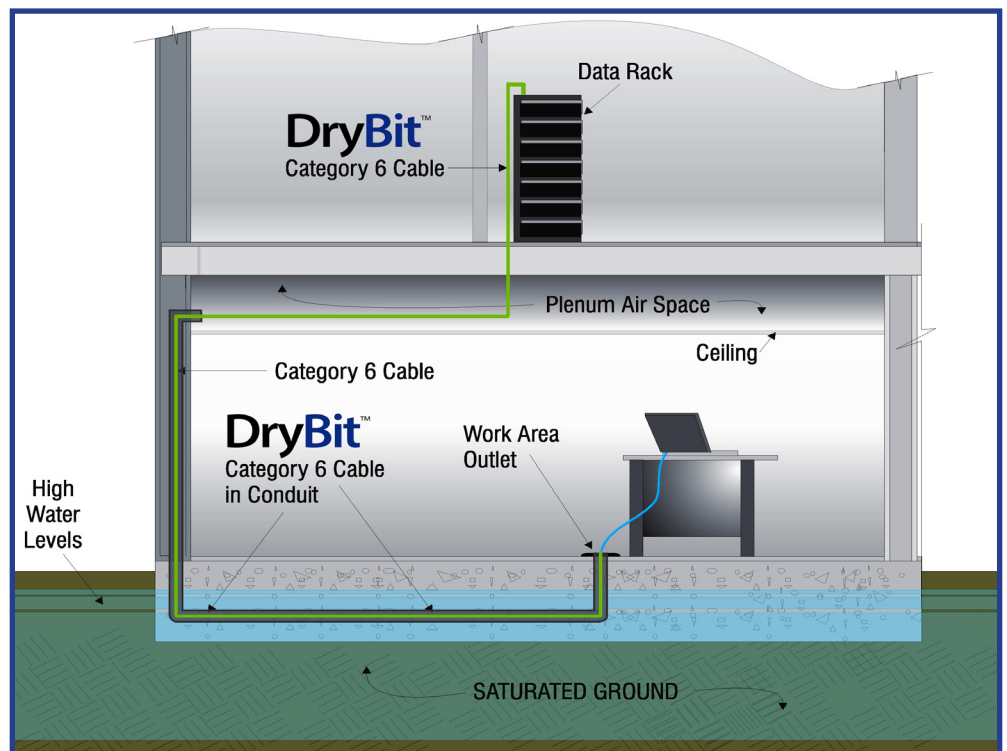
(cUL)us Listed Type CMP, CSA Type FT6)

HITACHI PART NO.	NO. OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		in.	mm	lbs/1000ft	kg/305m
30315-8-BK-3	4	.31	7.87	54.7	24.8

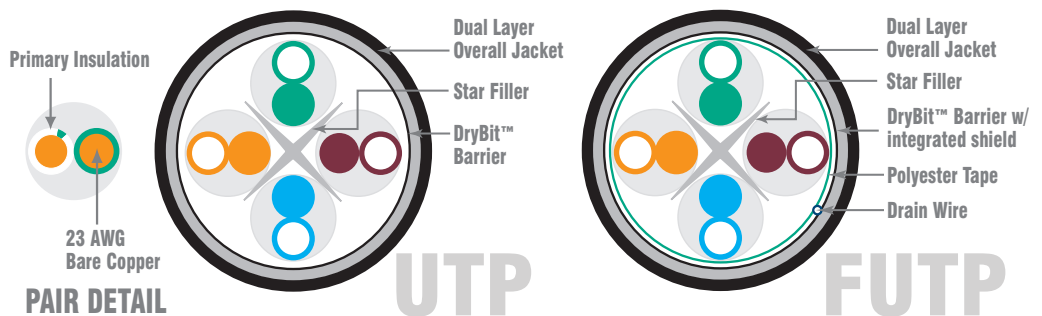
## DryBit™ Indoor-Outdoor CMP FUTP (Plenum)

(cUL)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
30277-8-BK-3	4	.31	7.87	56.0	25.4



## Features



PAIR DETAIL

DIELECTRIC MATERIALS  
Primary Insulation  
Overall Jacket

PLENUM  
Plenum-rated fluoropolymer  
Low-smoke, flame-retardant thermoplastic

# UTP & FUTP Category 6

## Electrical Characteristics

Input Impedance	100 ± 15Ω (1.0 to 250 MHz)
Maximum conductor resistance	9.38 Ω/100 meters @ 20C
Maximum resistance unbalance	5%
Maximum capacitance unbalance	330 pF/100 meters
Maximum delay skew	45 ns/100 meters
Nominal velocity of propagation (NVP)	plenum, 70%
Voltage Rating	300 Volts
Ampacity <sup>1</sup>	.5 Amps/conductor

Hitachi Cable America reserves the right to revise any specifications.

### Installation Notes:

To ensure safe operation, install cables according to all applicable local and national electrical codes.



Photos are for representation purposes only.

## Transmission Specifications

ANSI/TIA 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	74.3	72.3	72.3	72.3	72.3	70.3	70.3	67.8	67.8	64.8	64.8	20.0	20.0
4	3.8	3.8	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5	55.8	55.8	52.8	52.8	23.0	23.0
8	5.3	5.3	60.8	60.8	58.8	58.8	55.4	55.4	53.4	53.4	49.7	49.7	46.7	46.7	24.5	24.5
10	6.0	6.0	59.3	59.3	57.3	57.3	53.3	53.3	51.3	51.3	47.8	47.8	44.8	44.8	25.0	25.0
16	7.6	7.6	56.2	56.2	54.2	54.2	48.7	48.7	46.7	46.7	43.7	43.7	40.7	40.7	25.0	25.0
31.25	10.7	10.7	51.9	51.9	49.9	49.9	41.2	41.2	39.2	39.2	37.9	37.9	34.9	34.9	23.6	23.6
62.5	15.4	15.4	47.4	47.4	45.4	45.4	32.0	32.0	30.0	30.0	31.9	31.9	28.9	28.9	21.5	21.5
100	19.8	19.8	44.3	44.3	42.3	42.3	24.5	24.5	22.5	22.5	27.8	27.8	24.8	24.8	20.1	20.1
200	29.0	29.0	39.8	39.8	37.8	37.8	10.8	10.8	8.8	8.8	21.8	21.8	18.8	18.8	18.0	18.0
250	32.8	32.8	38.3	38.3	36.3	36.3	5.5	5.5	3.5	3.5	19.8	19.8	16.8	16.8	17.3	17.3
300*	-	36.4	-	37.1	-	35.1	-	-	-	-	-	18.3	-	15.3	-	16.8
350*	-	39.8	-	36.1	-	34.1	-	-	-	-	-	16.9	-	13.9	-	16.3
400*	-	43.0	-	35.3	-	33.3	-	-	-	-	-	15.8	-	12.8	-	15.9
500*	-	48.9	-	33.8	-	31.8	-	-	-	-	-	13.8	-	10.8	-	15.2
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/100m.

1. Ampacity rating per NEC 725.144 of NFPA NEC (2017) up to 192 cable bundle.