

# Indoor / Outdoor

UTP & FUTP

# Cat 6A DryBit®

## Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- Guaranteed minimum performance
- Tested from 1 to 660 MHz
- UL Verified TIA-568-D.2 Category 6A
- UL Verified (UL B627696) for long term water submersion
- UL Listed for use in plenum areas.
- UV resistant jacket
- Specifically designed for below-grade conduit or other environments where water is likely to infiltrate
- Ideal for industrial & harsh environments
- Resistant to over 2,000 chemicals
- No-gel construction simplifies termination
- DryBit® Barrier ensures optimum electrical performance even in harsh environments
- Available in both UTP and FUTP
- Standard jacket color is black
- Custom colors available

## Packaging

- 1,000 foot (305 m) reels
- Unit/pallet: 12
- CMP Carton Weight (lbs): 23.66
- CMP Product Weight (lbs): 20.36
- \*weight may vary

## Applications

- Including:
  - HDBase-T A & B
  - 10 Gigabit Ethernet (IEEE 802.3an)
  - 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 +90°C
  - (-40°F to +194°F)

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

c(UL)us Listed Type CMP (NFPA 262), CSA Type FT6

PART #	# OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		inches	mm	lbs/1000 ft	kg/305 m
30323-8-BK3	4	0.31	7.87	54.7	24.8

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

c(UL)us Listed Type CMP (NFPA 262), CSA Type FT6

PART #	# OF PAIRS	CALCULATED CABLE O.D.		CABLE WEIGHT	
		inches	mm	lbs/1000 ft	kg/305 m
30322-8-BK3	4	0.31	7.87	56.0	25.4

## Building a Part Number

BASE PART NUMBER EX.	NO. OF CONDUCTORS	JACKET COLOR	REEL TYPE
30323	8	XX	Y

Jacket Colors (XX):  
Black (BK)

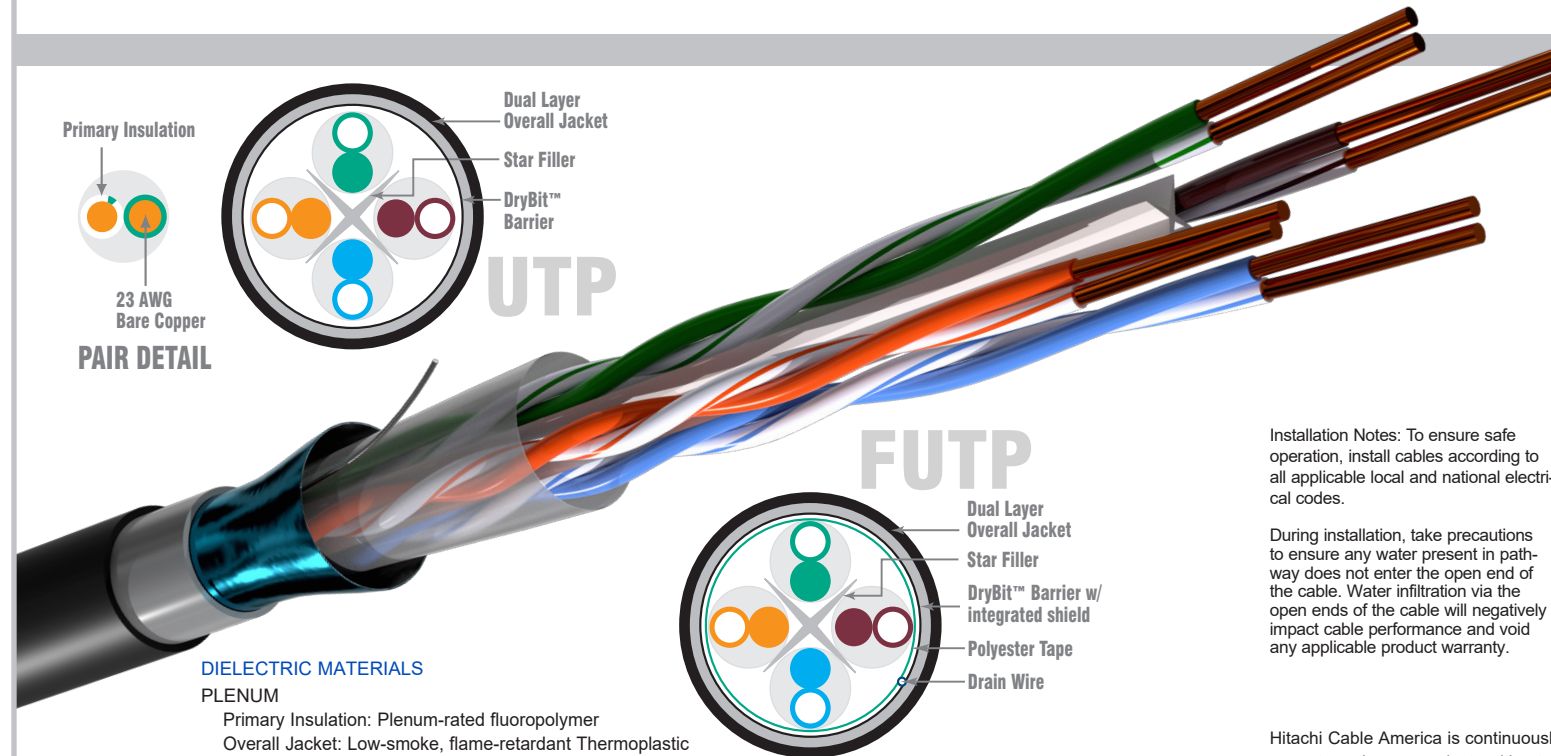
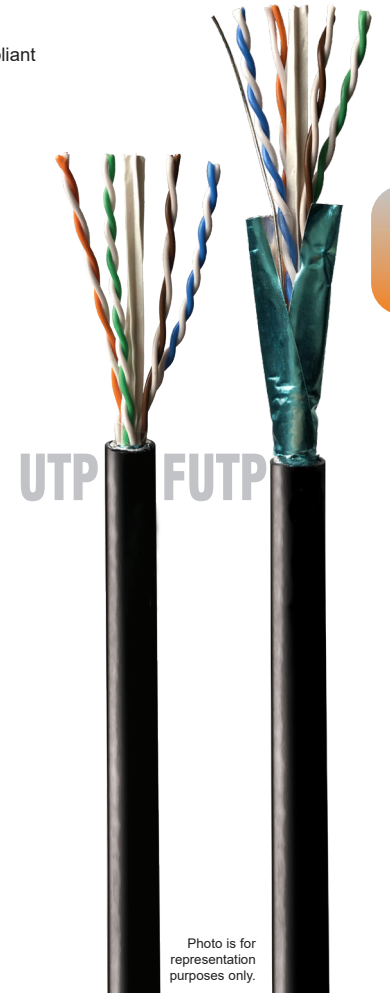
Reel Type (Y):  
Reels (3)

## Transmission Specifications

ANSI/TIA-568.2-D Category 6A Verified  
ISO/IEC 11801, 2nd ed. Class EA Compliant

Freq. (MHz)	Ins. Loss	NEXT	PSNEXT	ACR	PSACR	ACRF	PSACRF	Return Loss	PSANEXT	PSANEXT	PSAACRF	PSAACRF
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	TIA Std.	Min	TIA Std.	Min
1	2.1	74.3	72.3	72.2	70.2	67.8	64.8	20.0	67.0	73.0	67.0	73.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0	67.0	73.0	66.2	72.2
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5	67.0	73.0	60.1	66.1
10	5.9	59.3	57.3	53.4	51.4	47.8	44.8	25.0	67.0	73.0	58.2	64.2
16	7.5	56.2	54.2	48.8	46.8	43.7	40.7	25.0	67.0	73.0	54.1	60.1
20	8.4	54.8	52.8	46.4	44.4	41.8	38.8	25.0	67.0	73.0	52.2	58.2
25	9.4	53.3	51.3	44.0	42.0	39.8	36.8	2.3	67.0	73.0	50.2	56.2
31.25	10.5	51.9	49.9	41.4	39.4	37.9	34.9	23.6	67.0	73.0	48.3	54.3
62.5	15.0	47.4	45.4	32.4	30.4	31.9	28.9	21.5	65.6	71.6	42.3	48.3
100	19.1	44.3	42.3	25.2	23.2	27.8	24.8	20.1	62.5	68.5	38.2	44.2
155	24.1	41.4	39.4	17.4	15.4	24.0	21.0	18.8	59.6	65.6	34.4	40.4
200	27.6	39.8	37.8	12.2	10.2	21.8	18.8	18.0	58.0	64.0	32.2	38.2
250	31.1	38.3	36.3	7.3	5.3	19.8	16.8	17.3	56.5	62.5	30.2	36.2
300	34.3	37.1	35.1	2.9	0.9	18.3	15.3	16.8	55.3	61.3	28.7	34.7
350	37.2	36.1	34.1	-	-	16.9	13.9	16.3	54.3	60.3	27.3	33.3
400	40.1	35.3	33.3	-	-	15.8	12.8	15.9	53.5	59.3	26.2	32.2
500	45.3	33.8	31.8	-	-	13.8	10.8	15.2	52.0	58.0	24.2	30.2
555*	47.9	33.1	31.1	-	-	12.9	9.9	14.9	51.3	57.3	23.3	29.3
660*	52.8	32.0	30.0	-	-	11.4	8.4	14.4	50.2	56.2	21.8	27.8

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



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

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.

## Electrical Characteristics

Input Impedance:	100 ± 15Ω (1.0 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):	70%, Plenum
Voltage Rating:	300 Volts

CABLE AMPACITY CHART							
Bundle Size	1	2-7	8-19	20-37	38-61	62-91	92-192
Cable Temp	90°C	90°C	90°C	90°C	90°C	90°C	90°C
23 AWG	2.5	1.7	1.2	0.9	0.8	0.8	0.6

The table above is derived from the one approved by the National Fire Protection Agency and used in the National Electrical Code, NFPA-70. The complete table can be found in sections 725.144 and 800 Communication Circuits of the code. The table identifies the ampacity of each conductor (in amperes) in a 4-pair Class 2 or Class 3 data cable. Ambient temperature used for development of the table is 30°C (86°F) with all conductors in all cables carrying current. The table is based on 60°C (140°F), 75°C (167°F) and 90°C (194°F) rated cables. All cable temps are operational temp ratings. Cables with temp ratings above 90c would deliver additional power handling capacity.

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