



**Product:** [2424D](#) 

DataTwist 2400 Category 6+ Cable, 4 Pair, U/UTP, LSZH Indoor CPR Eca

## Product Description

Category 6 Enhanced Premise Horizontal Cable (350MHz), 4-Pair, 24 AWG Solid Bare Copper Conductors, U/UTP, Polyethylene Insulation, LSZH Jacket

## Technical Specifications

### Product Overview

Suitable Applications:	Horizontal and building backbone cable; Support current and future Category 6 and 5e applications, such as: 1000Base - T (Gigabit Ethernet), 100 Base - T, 10 Base - T, FDDI, ATM
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### Construction Details

#### Conductor

Element	Size	Stranding	Material	No. of Pairs
Individual Pair	24 AWG	Solid	BC - Bare Copper	4

#### Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Pair	PE - Polyethylene	1 mm (0.039 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

#### Cable Core

Description
4 pairs twisted together

#### Outer Jacket

Material	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.1 mm (0.20 in)	Yes

Overall Cable Diameter (Nominal):	5.1 mm (0.20 in)
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### Electrical Characteristics

#### Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
93.8 Ohm/km (28.6 Ohm/1000ft)	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

#### Delay

Max. Delay Skew	Nom. Velocity of Prop.
35 ns/100m	70%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2	75.3	73.3	73.3	71.3	70.8	67.8	20	40	35
4	3.7	66.3	64.3	62.6	60.6	58.8	55.8	23	40	23
10	5.8	61.8	59.8	56	54	50.8	47.8	25	40	15
16	7.4	58.6	56.6	51.2	49.2	46.7	43.7	25	38	10.9
20	8.3	57.1	55.1	48.8	46.8	44.8	41.8	25	37	9
31.2	10.4	54	52	43.6	41.6	40.9	37.9	23.6	35.1	5.1
62.5	15	49.1	47.1	34.1	32.1	34.9	31.9	21.5	32.6	

100	19.3	45.8	43.8	26.5	24.5	30.8	27.8	20.8	30
200	28.3	40.9	38.9	12.6	10.6	22.8	21.8	19.5	27
250	32.1	39.3	37.3	7.2	5.2	22.8	19.8	18	26.0
300	35.6	38.1	36.1	2.5	0.5	21.3	18.3	17.5	25.2
350	38.8	37.1	35.1			19.9	16.9	17.0	24.6

High Frequency Table Notes: Limits below 4 MHz are for information only. Reference standard: IEC 61156-5

#### Voltage

<b>Voltage Rating</b>
72 V DC

## Mechanical Characteristics

#### Temperature

<b>Operating</b>	<b>Installation</b>
-20°C to +75°C	0°C To +50°C

#### Bend Radius

<b>Stationary Min.</b>	<b>Installation Min.</b>
22 mm (0.87 in)	44 mm (1.7 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	33 kg/km (22 lbs/1000ft)

## Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = a
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60%
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.
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## History

Update and Revision:	Revision Number: 0.464 Revision Date: 02-20-2026
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
2424D.10305	Black	Reel	305 m	8719605005281
2424D.06305	Blue	Reel	305 m	8719605005144
2424D.06A305	Blue	Reel-in-Box	305 m	8719605005168
2424D.K6305	Blue	Reel	305 m	8719605005298
2424D.06500	Blue	Reel	500 m	8719605005151
2424D.08A305	Gray	Reel-in-Box	305 m	8719605005236
2424D.K8A305	Gray	Reel-in-Box	305 m	8719605147820
2424D.08500	Gray	Reel	500 m	8719605005229
2424D.05305	Green	Reel	305 m	8719605005137
2424D.03305	Orange	Reel	305 m	8719605005113
2424D.07305	Purple	Reel	305 m	8719605005199
2424D.07A305	Purple	Reel-in-Box	305 m	8719605005212
2424D.K7305	Purple	Reel	305 m	8719605005304

2424D.B7305	Purple	Reel	305 m	8719605229243
2424D.071000	Purple	Reel	1,000 m	8719605005175
2424D.02A305	Red	Reel-in-Box	305 m	8719605005106
2424D.09A305	White	Reel	305 m	8719605005274
2424D.B9A305	White	Reel	305 m	8719605229274
2424D.09500	White	Reel	500 m	8719605005267
2424D.091000	White	Reel	1,000 m	8719605005243
2424D.04305	Yellow	Reel	305 m	8719605005120

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