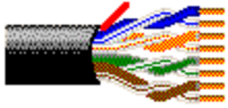




Product: [1224D](#)



DataTwist 1200 Category 5e Enhanced Cable, 4 Pair, U/UTP, LSZH Indoor CPR Dca

### Product Description

Category 5e Enhanced Premise Horizontal Cable (350MHz), 4-Pair, 24 AWG solid bare copper conductors, U/UTP, Polyethylene insulation, ripcord, LSZH jacket.

### Technical Specifications

#### Product Overview

Suitable Applications:	Horizontal and building backbone cable; Support current and future Category 5e applications, such as: 1000Base - T (Gigabit Ethernet), 100 Base - T, 10 Base - T, FDDI, ATM
Patent:	This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .

#### Construction Details

##### Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
24 AWG	Solid	BC - Bare Copper	4	8

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.95 mm (0.037 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)	4.9 mm (0.19 in)	Yes

Overall Cable Diameter (Nominal):	4.9 mm (0.19 in)
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#### Electrical Characteristics

##### Electricals

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

##### Delay

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

##### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	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]
1	2.0 dB/100m	70.3	69.3	68.3	67.3	67.8	65.8	20.0
4	4.0 dB/100m	61.3	60.3	57.3	56.3	55.8	53.8	23.0
8	5.7 dB/100m	56.8	55.8	51.1	50.1	49.7	47.7	24.5
10	6.4 dB/100m	55.3	54.3	48.9	47.9	47.8	45.8	25.0
16	8.1 dB/100m	52.2	51.2	44.1	43.1	43.7	41.7	25.0

20	9.1 dB/100m	50.8	49.8	41.7	40.7	41.8	39.8	25.0
25	10.2 dB/100m	49.3	48.3	39.1	38.1	39.8	37.8	24.3
31.25	11.4 dB/100m	47.9	46.9	36.4	35.4	37.9	35.9	23.6
62.5	16.4 dB/100m	43.4	42.4	27.0	26.0	31.9	29.9	21.5
100	21.0 dB/100m	40.3	39.3	19.3	18.3	27.8	25.8	20.1
155	26.6 dB/100m	37.4	36.4	10.9	9.9	24.0	22.0	18.8
200	30.5 dB/100m	35.8	34.8	5.3	4.3	21.8	19.8	18.0
250	34.4 dB/100m	34.3	33.3	-0.1	-1.1	19.8	17.8	17.3
300	38.0 dB/100m	33.1	32.1	1.9		18.3	16.3	14.4
350	41.4 dB/100m	32.1	31.1			16.9	14.9	13.8
400	44.6 dB/100m	31.3	30.3			15.8	13.8	13.3
450	47.7 dB/100m	30.5	29.5			14.7	12.7	12.8

#### Voltage

Voltage Rating
72 V DC

### Mechanical Characteristics

#### Temperature

Operating	Installation
-20°C to +75°C	0°C To +50°C

#### Bend Radius

Stationary Min.	Installation Min.
20 mm (0.79 in)	40 mm

Max. Pull Tension:	80 N (18 lbf)
Bulk Cable Weight:	30 kg/km

### Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca, Indoor, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 5e
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
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark
Plenum Number:	1213
Non-Plenum Number:	1212

### Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are for Engineering Information Only.
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### History

Update and Revision:	Revision Number: 0.123 Revision Date: 04-29-2024
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### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
1224D.08U305	Gray	Unreel	305 m	8719605140906

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