## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



### 1702A Multi-Conductor - Enhanced Category 5e Dual Bonded-Pair Cable



For more Information please call

1-800-Belden1



#### **General Description:**

CAT5e+ (350MHz), Siamese 2X4-Bonded-Pairs, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, Polyolefin insulation, Ripcord, PVC jacket

#### Usage (Overall)

Suitable Applications:

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments | US Patent #s 5, 606, 151; 5, 734, 126

#### **Physical Characteristics (Overall)**

#### Conductor

AWG:

# Pairs AWG Stranding Conductor Material
8 24 Solid BC - Bare Copper

Total Number of Conductors: 16

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

Outer Shield Material Unshielded

#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

#### **Overall Cable**

Overall Nominal Diameter:

0.200 x 0.415 in.

#### Pair

### Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

#### **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
Bulk Cable Weight:	45 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius/Minor Axis:	0.500 in.
Min. Bend/Installation:	2 in.

#### **Applicable Specifications and Agency Compliance (Overall)**

#### **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA WC-63.1 Category 5e, UL verified to Category 5e
nnlicable Patents:	

#### Applicable Patents:

Country www.belden.com/p

#### Flame Test

	UL Flame Test:	UL1666 Riser
	C(UL) Flame Test:	FT4
	CSA Flame Test:	FT4
Ple	num/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	1703A

#### **Electrical Characteristics (Overall)**

Nom. Mutual Capacitance:



Maximum Capacitance Unbalance (pF/100 m):

66

Nominal Velocity of Propagation:



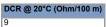
Maximum Delay:



Max. Delay Skew:



Maximum Conductor DC Resistance:



Max. Operating Voltage - UL:



Maximum DCR Unbalanced:



#### **Electrical Characteristics-Premise (Overall)**

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.0	65.3	65.3	63.3	63.3	20.0
4	4.0	56.3	56.3	52.3	52.3	23.0
8	5.7	51.8	51.8	46.1	46.1	24.5
10	6.4	50.3	50.3	43.9	43.9	25.0
16	8.1	47.3	47.3	39.1	39.1	25.0
20	9.2	45.8	45.8	35.2	35.2	25.0
25	10.3	44.3	44.3	34.1	34.1	24.3
31.25	11.6	42.9	42.9	31.3	31.3	23.6
62.5	16.8	38.4	38.4	21.6	21.6	21.5
100	21.7	35.3	35.3	17.1	17.1	20.1
155	27.7	32.5	32.5	4.7	4.7	19.0
200	32.0	30.8	30.8	3.0	3.0	19.0
250	36.4	29.3	29.3	>0	>0	18.0

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## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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300	40.5	28.2	28.2		18.0
310	41.3	27.9	27.9		18.0
350	44.3	27.2	27.2		17.0

#### Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.8
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.9
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 18	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

#### Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1702A F2V1000	1,000 FT	46.000 LB	GRAY, DEC	С	2X CAT5E U/UTP CMR SIAM REEL
1702A F2V1640	1,640 FT	75.440 LB	GRAY, DEC	С	2X CAT5E U/UTP CMR SIAM REEL
1702A 0061000	1,000 FT	25.000 LB	BLUE, LIGHT	С	2X CAT5E U/UTP CMR SIAM REEL
1702A 0061640	1,640 FT	41.000 LB	BLUE, LIGHT	С	2X CAT5E U/UTP CMR SIAM REEL

#### Notes

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 04-29-2016

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product.

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