

**AV6UR Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables**

Preview Document. Not Live Data.



For more Information  
please call

1-800-Belden1



**Description**

CAT6+ (350MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Tape Separator, Ripcord, PVC Jacket

**Usage (Overall):**

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors: 8

**Insulation:**

Insulation Material

Insulation Material
PO - Polyolefin

**Outer Shield:**

Outer Shield Material

Outer Shield Material
Unshielded

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter

Nom. Dia. (in.)
0.223

Outer Jacket Ripcord: Yes

**Overall Cable:**

Overall Cabling Separator Material: Patented Dielectric Tape

Overall Nominal Diameter: 0.223 in.

**Pair:**

Pair Color Code Chart

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

**Mechanical Characteristics (Overall):**

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: +5°C To +50°C

Operating Temperature Range: 0°C To +75°C

**AV6UR Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables**

Bulk Cable Weight:	24 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend/Installation:	2.500 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
Other Standards	ISO/IEC 11801 ed 2.1 (2008) Class E
EU CE Mark	Yes
EU Directive 2000/53/EC (ELV)	Yes
EU Directive 2002/95/EC (RoHS)	Yes
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
Telecommunications Standards	Category 6 - TIA 568.C.2
Other Specification	Third party verified to Category 6

Applicable Patents

**Country**  
www.belden.com/p

**Flame Test:**

UL Flame Test	UL1666 Vertical Riser
C(UL) Flame Test	FT4
CSA Flame Test	FT4

**Plenum/Non-Plenum:**

Plenum (Y/N)	No
Plenum Number	AV6UP

**Electrical Characteristics (Overall):**

Nom. Mutual Capacitance

**Capacitance (pF/ft)**  
17.000

Maximum Capacitance Unbalance (pF/100 m)	330
--	-----

Nominal Velocity of Propagation

**VP (%)**  
70.000

Maximum Delay

**Delay (ns/100 m)**  
537 @ 100MHz

Max. Delay Skew

**Delay Skew (ns/100 m)**  
35.000

Maximum Conductor DC Resistance

**DCR @ 20°C (Ohm/100 m)**  
7.800

Max. Operating Voltage - UL

**Voltage**  
300 V RMS

**AV6UR Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables**

Maximum DCR Unbalanced

<b>DCR Unbalance @ 20°C (%)</b>
3.000

**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	2.000	75.300	75.300	73.300	73.300	20.000
4	3.700	66.300	66.300	62.600	62.600	23.000
8	5.200	61.800	61.800	56.600	56.600	24.500
10	5.800	60.300	60.300	54.500	54.500	25.000
16	7.400	57.200	57.200	49.900	49.900	25.000
20	8.300	55.800	55.800	47.500	47.500	25.000
25	9.300	54.300	54.300	45.100	45.100	24.300
31.250	10.400	52.900	52.900	42.500	42.500	23.600
62.500	15.000	48.400	48.400	33.400	33.400	21.500
100	19.300	45.300	45.300	26.000	26.000	20.800
155	24.600	42.400	42.400	17.900	17.900	19.500
200	28.300	40.800	40.800	12.500	12.500	18.700
250	32.100	39.300	39.300	7.200	7.200	18.000
300	35.600	38.100	36.100	0.500	0.500	17.500
350	38.900	37.100	35.100	-1.700	-3.700	17.000
400	42.000	36.300	34.300	-5.700	-7.700	16.600
450	45.000	35.500	33.500	-9.500	-11.500	16.200
500	47.900	34.800	32.800	-13.000	-15.000	15.900
550	50.600	34.200	32.200	-16.400	-18.400	15.600

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	102 ± 15	70.800	67.800
4	100 ± 15	100 ± 15	58.800	55.800
8	100 ± 15	100 ± 15	52.700	49.700
10	100 ± 15	100 ± 15	50.800	47.800
16	100 ± 15	100 ± 15	46.700	43.700
20	100 ± 15	100 ± 15	44.800	41.800
25	100 ± 15	100 ± 15	42.800	39.800
31.250	100 ± 15	100 ± 15	40.900	37.900
62.500	100 ± 15	100 ± 15	34.900	31.900
100	100 ± 15	100 ± 15	30.800	27.800
155	100 ± 22	100 ± 15	27.000	24.000
200	100 ± 22	100 ± 15	24.800	21.800
250	100 ± 32	100 ± 15	22.800	19.800
300	100 ± 32	100 ± 15	21.300	18.300
350	100 ± 32	100 ± 15	19.900	16.900
400	100 ± 32	100 ± 15	18.800	15.800
450	100 ± 32	100 ± 15	17.700	14.700
500	100 ± 32	100 ± 15	16.800	13.800
550	100 ± 32	100 ± 15	16.000	13.000

**Notes (Overall):**

Notes Jacket sequentially marked at 2 ft intervals. Third party verified to ANSI/TIA-568-C.2, Category 6. Values above 350 MHz are for Engineering Information Only. In addition to the colors below, Pink is also available as a special, p/n 2412 012 U1000, or 2412 012 A1000.

**Reference (Overall):**

Previous Part Number 24566415, 25066515T, 24566745, 24566745T, 24566745T+HU, 24566736T, 24566715  
24566715T, 25066885, 25066885T, 25066815T, 24566945, 24566945T,  
24566945T+HU, 24566931, 24566931T, 24566931T+HU, 24566936T, 24566915,  
24566915T, 24566915T+HU, 24566015, 24566015T, 24566P15, 24566P15T, 2456618T,  
24566185T, 24566185T+HU, 24566115T, 24566345, 24566345T, 24566345T+HU,  
24566336T, 24566315, 24566315T, 24566315T+HU, 24566485, 24566485T,  
24566415T, 24566415T

**AV6UR Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables**

Revision Number: 0    Revision Date: 02-28-2014

---

© 2014 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.