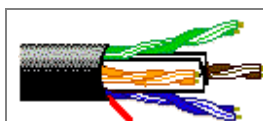


7927A Multi-Conductor - Category 6 DataTuff® Twisted Pair Cable



For more Information
please call

1-800-Belden1



Description

23 AWG Bonded-Pair solid bare copper conductors, polyolefin insulation, E-Spline center member, industrial grade sunlight- and oil-resistant PVC jacket, rip cord. Sequential marking at two foot intervals.

Suitable Applications (Overall):

Suitable Applications

Industrial Ethernet Cable, Harsh Environments, 600 MHz Enhanced Category 6, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, RJ-45 Compatible

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material
4.000	23	Solid	BC - Bare Copper

Insulation:

Insulation Material

Insulation Material
PO - Polyolefin

Outer Shield:

Outer Shield Material

Outer Shield Material
Unshielded

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
Industrial Grade PVC - Polyvinyl Chloride

Outer Jacket Ripcord

Yes

Overall Cabling:

Overall Cabling Fillers

E-Spline Center Member

Overall Cabling Color Code Chart

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

Overall Nominal Diameter:

6.375 x 6.375 mm

Mechanical Characteristics (Overall):

Operating Temperature Range -40°C To +75°C

Installation Temperature Range -25°C To +75°C

Bulk Cable Weight: 49.855 Kg/Km

Max. Recommended Pulling Tension: 200.169 N

Min. Bend Radius (Install)/Minor Axis: 6.350 mm

7927A Multi-Conductor - Category 6 DataTuff® Twisted Pair Cable

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMR
AWM Specification	UL Style 444 (300 V 75°C)
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	10/13/2005
TIA/EIA Specification	ANSI/TIA/EIA-568-B.2-1 CAT 6
Other Specification	UL Verified to Category 6

Flame Test:

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

Suitability:

Sunlight Resistance	Yes
Oil Resistance	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	N
--------------	---

Electrical Characteristics (Overall):

Nom. Mutual Capacitance

Capacitance (pF/m)
50.856

Nominal Velocity of Propagation

VP (%)
67

Maximum Capacitance Unbalance (pF/100 m) 65.6

Maximum Delay

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew

Delay Skew (ns/100 m)
38

Maximum Conductor DC Resistance

DCR @ 20°C (Ohm/100 m)
8.200

Max. Operating Voltage - UL

Voltage
300 V RMS

Maximum DCR Unbalanced

DCR Unbalance @ 20°C (%)
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)	Min. SRL (dB)
1	1.900	82.300	80.300	80.500	78.500	20.000	27.000
4	3.600	73.300	71.300	69.700	67.700	23.000	27.000
8	5.100	68.800	66.800	63.700	61.700	24.500	27.000
10	5.700	67.300	65.300	61.600	59.600	25.000	27.000
16	7.200	64.300	62.300	57.000	55.000	25.000	27.000
20	8.100	62.800	60.800	54.700	52.700	25.000	27.000

7927A Multi-Conductor - Category 6 DataTuff® Twisted Pair Cable

25	9.100	61.300	59.300	52.300	50.300	25.000	27.000
31.250	10.200	59.900	57.900	49.700	47.700	25.000	27.000
62.500	14.700	55.400	53.400	40.700	38.700	25.000	27.000
100	18.900	52.300	50.300	33.400	31.400	25.000	27.000
155	23.900	49.500	47.500	25.500	23.500	22.800	24.700
200	27.500	47.800	45.800	20.300	18.300	21.700	23.400
250	31.200	46.300	44.300	15.200	13.200	20.500	22.200
300	34.500	43.200	41.200	10.600	8.600	20.200	21.200
310	35.200	42.900	40.900	9.800	7.800	20.100	21.100
350	37.700	42.200	40.200	6.500	4.500	19.800	20.400
400	40.600	41.300	39.300	2.600	0.600	19.500	19.700
450	43.500	40.500	38.500	2.100	0.100	18.900	19.100
460	44.000	40.400	38.400	0	0	18.800	19.000
500	46.200	39.800	37.800			18.400	18.500
550	48.800	39.200	37.200			18.000	18.000
600	51.400	38.600	36.600			17.600	17.600

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	100 ± 15	73.800	70.800
4	100 ± 12	100 ± 10.4	61.800	58.800
8	100 ± 12	100 ± 8	55.700	52.700
10	100 ± 12	100 ± 7.3	53.800	50.800
16	100 ± 12	100 ± 5.7	49.700	46.700
20	100 ± 12	100 ± 5	47.800	44.800
25	100 ± 15	100 ± 5	45.800	42.800
31.250	100 ± 15	100 ± 5	43.900	40.900
62.500	100 ± 15	100 ± 5	37.900	34.900
100	100 ± 15	100 ± 5	33.800	30.800
155	100 ± 15	100 ± 5	30.000	27.000
200	100 ± 15	100 ± 5	27.800	24.800
250	100 ± 20	100 ± 5	25.800	22.800
300	100 ± 20	100 ± 5	24.300	21.300
310	100 ± 20	100 ± 5	24.000	21.000
350	100 ± 22	100 ± 5	22.900	19.900
400	100 ± 22	100 ± 5	21.800	18.800
450	100 ± 22	100 ± 5	20.700	17.700
460	100 ± 22	100 ± 5	20.500	17.500
500	100 ± 22	100 ± 5	19.800	16.800
550	100 ± 22	100 ± 5	19.000	16.000
600	100 ± 22	100 ± 5	18.200	15.200

Notes (Overall):

Notes US Patent #'s 6, 297, 454-B1; 5, 606, 151; 5, 734, 126; 5, 789, 711. Third party verified to TIA/EIA-568-B.2, Category 6. Operating temperature subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7927A 0101000	305 MT	19.958 KG	BLACK	C	4 PR #23 PP PVC BLK
7927A 0102000	610 MT	39.916 KG	BLACK	C	4 PR #23 PP PVC BLK

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 05-14-2007

7927A Multi-Conductor - Category 6 DataTuff® Twisted Pair Cable

© 2007 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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.