

METRIC MEASUREMENT VERSION

7922A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cables



For more Information please call

1-800-Belden1



General Description:

22 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, industrial grade sunlight- and Oil-resistant PVC jacket, rip cord. Sequential marking at two foot intervals.

Usage (Overall)					
Suitable Applications:	Industrial Ethernet Cable, Harsh Environments, 350MHz Enhanced Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, CMX - Outdoor, PLTC Listed, Approved for Cable Tray Use in Class 1, Division 2, Hazardous Areas and Non-hazardous Areas, Cable Trays, Raceways, Conduit and Supported by Messenger Wires, Approved for Outdoor Usage				
Physical Characteristics (Overall)					
Conductor AWG:					
# Pairs AWG Stranding Conductor Material Dia. (mm) 4 22 Solid BC - Bare Copper 0.6604					
Total Number of Conductors:	8				
Insulation					
Insulation Material:					
Insulation MaterialWall Thickness (mm)Dia. (mm)PO - Polyolefin0.27941.2192					
Outer Shield Outer Shield Material:					
Outer Shield Material					
Unshielded					
Outer Jacket					
Outer Jacket Material:					
Outer Jacket Material Nom. Wall Thickness (mm					
Industrial Grade PVC - Polyvinyl Chloride 1.0922					
Outer Jacket Ripcord:	Yes				
Overall Cable					
Overall Nominal Diameter:	7.645 mm				
Pair					
Pair Color Code Chart:					
Number Color 1 White/Blue & Blue					
2 White/Orange & Orange					
3 White/Green & Green					
4 White/Brown & Brown					
Mechanical Characteristics (Overall)					
Storage Temperature Range:	-40°C To +80°C				
Installation Temperature Range:	-25°C To +75°C				
Operating Temperature Range:	-40°C To +75°C				
Bulk Cable Weight:	62.504 Kg/Km				
Max. Recommended Pulling Tension:	177.928 N				
Min. Bend Radius/Minor Axis:	7.620 mm				
Applicable Specifications and Agency Compliance (Or					
Applicable Specifications and Agency Compliance (Ov Applicable Standards & Environmental Programs	eranj				
NEC/(UL) Specification:	CMR, CMX-Outdoor, PLTC				
CEC/C(UL) Specification:	CMR				

Detailed Specifications & Technical Data



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EU Directive 2011/65/EU (ROHS II):	Yes
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
Telecommunications Standards:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e
Applicable Patents:	
Country www.belden.com/p	
Flame Test	
UL Flame Test:	UL1666 Vertical Riser
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall) Nom. Capacitance Conductor to Shield: Capacitance (pF/m)	
49.215	
Maximum Capacitance Unbalance (pF/100 m):	66
Nominal Velocity of Propagation: VP (%) 70 Maximum Delay: Delay (ns/100 m) 510	
Max. Delay Skew: Delay Skew (ns/100 m) 25	
Maximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m) 9	
Max. Operating Voltage - UL: Voltage 300 V RMS	
Maximum DCR Unbalanced: DCR Unbalance @ 20°C (%) 3	
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

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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
300	40.5	28.2	28.2	>0	>0	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	48.7
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	24.8
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	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: Operating temperatures are subject to length de-rating

Notes (Cont'd.):

Cable passes -40C Cold Bend per UL 1581 T568A Plug Compatible Part Number: R301601 T568B Plug Compatible Part Number: R301602

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7922A 0101000	1,000 FT	46.000 LB	BLACK	С	4 PR #22 PP PVC
7922A 0102000	2,000 FT	92.000 LB	BLACK	С	4 PR #22 PP PVC
7922A 0105000	5,000 FT	235.000 LB	BLACK	С	4 PR #22 PP PVC

Notes:

C = CRATE REEL PUT-UP.

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