

ENGLISH MEASUREMENT VERSION

7953A Multi-Conductor - Category 6 DataTuff® 600V AWM Rated Cables



For more Information please call

1-800-Belden1



General Description:

23 AWG solid bare copper conductors, bonded pair polypropylene insulation, FRPE spline center member, inner PVC jacket, overall Beldfoil® Shield (100% coverage), industrial grade sunlight and oil resistant DataTuff® PVC jacket, sequential footage marking every two feet.

Usage (Overall)		
Suitable Applications:		Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155 ATM, 622 ATM, 250MHz Category 6
Physical Characteristics	(Overall)	
Conductor		
AWG: # Pairs AWG Stranding 0	Sanduatan Matavial	
	3C - Bare Copper	
Total Number of Conducto	rs:	8
Ground Wire		
Ground Wire (Y/N):		Ν
Insulation Insulation Material:		
Insulation MaterialWall TPP - Polypropylene0.010	hickness (in.) Dia. (in.) 0.043	
Inner Jacket Inner Jacket Material:		
Inner Jacket Material Nom	Wall (in.) Nom. Dia. (in.)	
PVC 0.02	0 0.270	
Inner Jacket Ripcord:		Yes
Beldfoil®	Tape Aluminum Foil - Polyester Tape 1	overage (%) 00.000
Outer Shield Drain Wire AWG AWG Stranding Drain Wire 24 7x32 TC - Tinn		
Outer Jacket Outer Jacket Material:		
Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Datatuff®	Industrial Grade PVC - Polyvinyl Chloride	0.030
Outer Jacket Diameter: Nom. Dia. (in.) 0.335		
Outer Jacket Ripcord:		No
Overall Cable		
Overall Cabling Fillers:		X-Spline Center Member
Overall Nominal Diameter:		0.335 in.
Pair Pair Color Code Chart:		
Number Color		
1 White/Blue Stripe	& Blue	
2 White/Orange Stri	pe & Orange	
3 White/Green Strip		
4 White/Brown Strip	e & Brown	



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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
UL Temperature Rating:	75°C
Bulk Cable Weight:	44 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius/Minor Axis:	4 in.
Applicable Specifications and Agency Complian	
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR, CMX-Outdoor
CEC/C(UL) Specification:	CMR
AWM Specification:	UL Style 21047
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 RoHS Compliance Date (mm/dd/yyyy):	10/09/2009
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:	UL Verified to Category 6
Flame Test	
UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes
Suitability - Burial:	No
Sunlight Resistance:	Yes
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Surface Printing (Overall)	
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance: Capacitance (pF/ft) 15	
Maximum Capacitance Unbalance (pF/100 m):	330
Nominal Velocity of Propagation: VP (%) 72 Maximum Delay: Delay (ns/100 m) 537 @ 100MHz	



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Max. Delay Skew: Delay Skew (ns/100 m) 45 Maximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m) 8.2 Max. Operating Voltage - UL: Description Voltage 300 V RMS

600 V RMS Appliance Wiring Material

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	2.000	74.3	72.3	72.3	70.3	21.000	na
4	3.800	65.3	63.3	61.5	59.5	24.000	na
8	5.300	60.8	58.8	55.4	53.4	25.500	na
10	6.000	59.3	57.3	53.3	51.3	26.000	na
16	7.600	56.2	54.3	48.7	46.7	26.000	na
20	8.500	54.8	52.8	46.3	44.3	26.000	na
25	9.500	53.3	51.3	43.8	41.8	25.300	na
31.25	10.700	51.9	49.9	41.2	39.2	24.600	na
62.5	15.400	47.4	45.4	32.0	30.0	22.500	na
100	19.800	44.3	42.3	24.5	22.5	21.100	na
155	25.200	41.5	39.5	16.3	14.3	19.800	na
200	29.000	39.8	37.8	10.8	8.8	19.000	na
250	32.800	38.3	36.3	5.5	3.5	18.300	na

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	67.8	64.8
4	100 ± 15	100 ± 15	55.8	52.7
8	100 ± 15	100 ± 15	49.7	46.7
10	100 ± 15	100 ± 15	47.8	44.8
16	100 ± 15	100 ± 15	43.7	40.7
20	100 ± 15	100 ± 15	41.8	38.8
25	100 ± 15	100 ± 15	39.8	36.8
31.25	100 ± 15	100 ± 15	37.9	34.9
62.5	100 ± 15	100 ± 15	31.9	28.9
100	100 ± 15	100 ± 15	27.8	24.8
155	100 ± 22	100 ± 15	23.9	20.9
200	100 ± 22	100 ± 15	21.8	18.8
250	100 ± 32	100 ± 15	19.8	16.8

Notes (Overall)

Notes: US Patent #'s 5, 606, 151; 5, 734, 126. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581. Not intended for 600 V eletrical power delivery.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7953A 0021000	1,000 FT	55.000 LB	RED	С	4 PR #23 PO PVC FS FRPVC
7953A 0061000	1,000 FT	55.000 LB	BLUE, LIGHT	С	4 PR #23 PO PVC FS FRPVC
7953A 0081000	1,000 FT	55.000 LB	GRAY	С	4 PR #23 PO PVC FS FRPVC
7953A 0101000	1,000 FT	55.000 LB	BLACK	С	4 PR #23 PO PVC FS FRPVC
7953A 0105000	5,000 FT	260.000 LB	BLACK	С	4 PR #23 PO PVC FS FRPVC
7953A 1NH1000	1,000 FT	55.000 LB	TEAL 1NH	С	4 PR #23 PO PVC FS FRPVC

Notes: C = CRATE REEL PUT-UP.



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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.