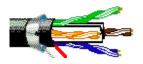


METRIC MEASUREMENT VERSION

### 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 Conductor Material423SolidBC - Bare Copper	
Total Number of Conductors:	8
Insulation Insulation Material:	
Insulation Material Wall Thickness (mm) Dia. (mm)	
PP - Polypropylene 0.254 1.092	
Inner Jacket	
Inner Jacket Material:	
Inner Jacket Material Nom Wall (mm)Nom. Dia. (mm)PVC0.5086.858	
	Yes
Inner Jacket Ripcord:	
Outer Shield Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
Beldfoil® Tape Aluminum Foil - Polyeste	er Tape 100.000
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Conductor Material	
24 7x32 TC - Tinned Copper	
Outer Jacket	
Outer Jacket Material: Outer Jacket Trade Name Outer Jacket Material	Nom. Wall Thickness (mm)
Datatuff® Industrial Grade PVC - Polyviny	
Outer Jacket Diameter:	
Nom. Dia. (mm) 8.509	
Outer Jacket Ripcord:	No
Overall Cable	
Overall Cabling Fillers:	X-Spline Center Member
Overall Nominal Diameter:	8.509 mm



### METRIC MEASUREMENT VERSION

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

#### 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)**

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:	65.481 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius/Minor Axis:	101.600 mm

## Applicable Specifications and Agency Compliance (Overall)

# 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
lame Test	
UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes
Suitability - Burial:	No
Sunlight Resistance:	Yes
Oil Resistance:	Yes



METRIC MEASUREMENT VERSION

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

Plenum/N	lon-Plenum						
Plenur	Plenum (Y/N): No						
urface F	Printing (Overall)						
Surfac	e Printing:			C(UL) CMG	JL) CAT 6 4PR23 ISO/IEC11801 2 123456 FT		
ectrical	Characteristics (Ove	rall)					
lom. Mutu	al Capacitance:						
<b>Capacita</b> 49.215	nce (pF/m)						
Maxim	um Capacitance Unbalanc	e (pF/100 m):	330				
	elocity of Propagation:	· · · ·					
<b>VP (%)</b> 72							
laximum	Delay:						
Delay (ns 537 @ 10							
lax. Delay	Skew:						
	ew (ns/100 m)						
laximum	Conductor DC Resistance:						
	0°C (Ohm/100 m)						
lay Oper:	ating Voltage - UL:						
Voltage	Description						
300 V RM	•						
600 V RM	IS Appliance Wiring Material						
lavimum	DCR Unbalanced:						
	palance @ 20°C (%)						
3.000							
ectrical	<b>Characteristics-Prem</b>	nise (Overall)	1				
	able Electrical Table 1:						
Freq. (MI	Hz) Max. Attenuation (dB/100 n	n) 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
100 155	19.800 25.200	44.3 41.5	42.3	24.5	22.5 14.3	21.100	na
200	25.200	39.8	39.5 37.8	16.3 10.8	8.8	19.800 19.000	na na
200	32.800	39.0	36.3	5.5	3.5	18.300	na
1-00		00.0					1

#### 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



#### METRIC MEASUREMENT VERSION

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

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.

Notes (Cont'd.):	
------------------	--

T568A Plug Compatible Part Number: R301603 T568B Plug Compatible Part Number: R301604

#### **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
7953A 1NH10000	10,000 FT	540.000 LB	TEAL 1NH		4 PR #23 PO PVC FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 02-07-2017

© 2020 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.

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 2014/35/EU).