

Physical Characteristics (Overall)										
Conductor										
Element		AWG	Stranding		Material				No. of Pairs	
		23	Solid		BC - Bare Copper				4	
No Ground										
Conductor Count:					8					
Total Number of Pairs:					4					
Conductor Size:					23 AWG					
Insulation										
Material			Nominal Diameter			Nominal Wall Thickness				
PP - Polypropylene			0.043 in			0.01 in				
Bonded-Pair:					Yes					
Color Chart										
Number		Color								
1		White/Blue Stripe & Blue								
2		White/Orange Stripe & Orange								
3		White/Green Stripe & Green								
4		White/Brown Stripe & Brown								
Inner Jacket Material										
Material				Nominal Diameter		Nominal Wall Thickness		Ripcord		
Industrial Grade PVC - Polyvinyl Chloride				0.258 in		0.02 in		Yes		
Outer Shield Material										
Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D				
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm				
Outer Jacket Material										
Material				Nominal Diameter		Nominal Wall Thickness		Ripcord		
Industrial Grade PVC - Polyvinyl Chloride				0.335 in		0.03 in		No		
Construction and Dimensions										
Cabling										
Filler										
X-Spline Center Member										
Print Legend:				7953A BELDEN VERIFIED (UL) CAT 6 4PR23 E108998-M CMR-CMX OUTDOOR OR C(UL) CMG----ISO/IEC11801 CAT 6 --- 300V PATENTED OIL/SUN RES FT4 IEEE 1202 123456 FT						
Electrical Characteristics										
Conductor DCR										
Max. Conductor DCR				Max. DCR Unbalance						
8.2 Ohm/1000ft				3 %						
Capacitance										
Max. Capacitance Unbalance				Nom.Mutual Capacitance						
330 pF/ft				15 pF/ft						
Delay										
Max. Delay		Max. Delay Skew		Nominal Velocity of Propagation (VP) [%]						
537 ns/100m		45 ns/100m		72 %						
High Freq										
Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	74.3 dB	72.3 dB	72.3 dB	70.3 dB	67.8 dB	64.8 dB	21 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	3.8 dB/100m	65.3 dB	63.3 dB	61.5 dB	59.5 dB	55.8 dB	52.7 dB	24 dB	100 ± 15 Ohm	100 ± 15
8 MHz	5.3 dB/100m	60.8 dB	58.8 dB	55.4 dB	53.4 dB	49.7 dB	46.7 dB	25.5 dB	100 ± 15 Ohm	100 ± 15
10 MHz	6 dB/100m	59.3 dB	57.3 dB	53.3 dB	51.3 dB	47.8 dB	44.8 dB	26 dB	100 ± 15 Ohm	100 ± 15
16 MHz	7.6 dB/100m	56.2 dB	54.3 dB	48.7 dB	46.7 dB	43.7 dB	40.7 dB	26 dB	100 ± 15 Ohm	100 ± 15
20 MHz	8.5 dB/100m	54.8 dB	52.8 dB	46.3 dB	44.3 dB	41.8 dB	38.8 dB	26 dB	100 ± 15 Ohm	100 ± 15
25 MHz	9.5 dB/100m	53.3 dB	51.3 dB	43.8 dB	41.8 dB	39.8 dB	36.8 dB	25.3 dB	100 ± 15 Ohm	100 ± 15
31.25 MHz	10.7 dB/100m	51.9 dB	49.9 dB	41.2 dB	39.2 dB	37.9 dB	34.9 dB	24.6 dB	100 ± 15 Ohm	100 ± 15
62.5 MHz	15.4 dB/100m	47.4 dB	45.4 dB	32 dB	30 dB	31.9 dB	28.9 dB	22.5 dB	100 ± 15 Ohm	100 ± 15
100 MHz	19.8 dB/100m	44.3 dB	42.3 dB	24.5 dB	22.5 dB	27.8 dB	24.8 dB	21.1 dB	100 ± 15 Ohm	
155 MHz	25.2 dB/100m	41.5 dB	39.5 dB	16.3 dB	14.3 dB	23.9 dB	20.9 dB	19.8 dB	100 ± 22 Ohm	
200 MHz	29 dB/100m	39.8 dB	37.8 dB	10.8 dB	8.8 dB	21.8 dB	18.8 dB	19 dB	100 ± 22 Ohm	
250 MHz	32.8 dB/100m	38.3 dB	36.3 dB	5.5 dB	3.5 dB	19.8 dB	16.8 dB	18.3 dB	100 ± 32 Ohm	
Voltage										
UL Description						UL Voltage Rating				
						300 V RMS				
Appliance Wiring Material						600 V RMS				
Temperature Range										
Installation Temp Range:						-25°C To +75°C				
UL Temp Rating:						75°C				
Storage Temp Range:						-40°C To +80°C				
Operating Temp Range:						-40°C To +75°C				
Mechanical Characteristics										
Bulk Cable Weight:						44 lbs/1000ft				
Max Recommended Pulling Tension:						40 lbs				
Min Bend Radius/Minor Axis:						4 in				
Standards										
NEC/(UL) Specification:						CMR, CMX-Outdoor				
CEC/C(UL) Specification:						CMG				
UL AWM Style:						UL Style 21047				
ISO/IEC Compliance:						ISO/IEC 11801 ed 2.1 (2008) Class E				
CPR Euroclass:						Eca				
Data Category:						Category 6				
Telecommunications Standards:						Category 6 - TIA 568.C.2				
Other Specification:						NEMA WC-63.1 Category 6,				
Applicable Environmental and Other Programs										
EU Directive 2000/53/EC (ELV):						Yes				
EU Directive 2003/11/EC (BFR):						Yes				
EU Directive 2011/65/EU (ROHS II):						Yes				
EU Directive 2012/19/EU (WEEE):						Yes				
EU Directive 2015/863/EU:						Yes				
EU Directive Compliance:						EU Directive 2003/11/EC (BFR)				
EU CE Mark:						Yes				
EU RoHS Compliance Date (yyyy-mm-dd):						2004-01-04				
CA Prop 65 (CJ for Wire & Cable):						Yes				
MII Order #39 (China RoHS):						Yes				
Suitability										
Suitability - Aerial:						Yes				
Suitability - Burial:						No				
Suitability - Indoor:						Yes				
Suitability - Oil Resistance:						Yes				
Suitability - Outdoor:						Yes				
Suitability - Sunlight Resistance:						Yes				
Flammability, LSOH, Toxicity Testing										
C(UL) Flammability:						FT4				
UL Flammability:						UL1666 Riser				
CSA Flammability:						FT4				
IEEE Flammability:						1202				
UL voltage rating:						300 V RMS				
Plenum/Non-Plenum										
Plenum (Y/N):						No				
Part Number										
Variants										
Item #						Color		Footnote		
7953A 0101000						Black		C		
7953A 0105000						Black		C		
7953A 0061000						Blue		C		
7953A 0081000						Gray		C		
7953A 0021000						Red		C		
7953A 1NH1000						Teal		C		
Footnote:						C - GRATE FEEL BUT NO				