

Physical Characteristics (Overall)										
Conductor										
AWG	Stranding			Material				No. of Pairs		
23	Solid			BC - Bare Copper				4		
Conductor Count:				8						
Total Number of Pairs:				4						
Conductor Size:				23 AWG						
Insulation										
Material				Nominal Wall Thickness						
PO - Polyolefin				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								
Outer Shield Material										
Material										
Unshielded										
Outer Jacket Material										
Material		Material Trade Name	Nominal Diameter	Nominal Wall Thickness	Ripcord	Separator Material				
Industrial Grade PVC - Polyvinyl Chloride		Datatuff®	0.25 in	0.03 in	Yes	Foamed Polyolefin Tape.				
Construction and Dimensions										
Print Legend:				7940A (DATATUFF(R) BY BELDEN LOGO) VERIFIED (UL) CAT6 4PR23 E108998(-PLANT IDENTIFIER) CMR-CMX OUTDOOR OR C(UL)CMG--ISO/IEC 11801 CAT 6--US PAT. 5,734,126--OIL/SUN RES FT4 IEEE 1202 (2 FT, 6 DIGIT SEQUENTIAL NUMBER) FT						
Electrical Characteristics										
Conductor DCR										
Max. Conductor DCR				Max. DCR Unbalance						
8.2 Ohm/1000ft				5 %						
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	100 ± 15 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	100 ± 15 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	100 ± 15 Ohm
Voltage										
UL Voltage Rating										
300 V RMS										
Temperature Range										
Installation Temp Range:				-20°C To +75°C						
UL Temp Rating:				60°C						
Storage Temp Range:				-40°C To +75°C						
Operating Temp Range:				-40°C To +75°C						
Mechanical Characteristics										
Bulk Cable Weight:				30 lbs/1000ft						
Max Recommended Pulling Tension:				40 lbs						
Min Bend Radius/Minor Axis:				2.5 in						
Standards										
NEC/(UL) Specification:				CMR, CMX-Outdoor, UL 444						
CEC/C(UL) Specification:				CMR						
ISO/IEC Compliance:				ISO/IEC 11801 Cat 6						
CPR Euroclass:				Eca						
Data Category:				Category 6						
Telecommunications Standards:				TIA-568-C.2 Category 6						
Third Party Performance Verification:				UL Verified 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 - Non-Halogenated:				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			
7940A 0101000					Black		C			
7940A 0102000					Black		C			
7940A 0061000					Blue					
7940A 0081000					Gray					
7940A 1NH1000					Teal		C			
Footnote:					C - CRATE REEL PUT-UP.					
Patent:					7077575					