

Physical Characteristics (Overall)											
Conductor											
AWG	Stranding			Material				No. of Pairs			
24	7x32			CA - Copper Alloy				4			
Conductor Count:						8					
Total Number of Pairs:						4					
Conductor Size:						24 AWG					
Insulation											
Material											
PO - Polyolefin											
Bonded-Pair:						Yes					
Color Chart											
Number		Color									
1		White/Blue Stripe and Blue									
2		White/Orange Stripe and Orange									
3		White/Green Stripe and Green									
4		White/Brown Stripe and Brown									
Inner Jacket Material											
Material				Nominal Diameter				Nominal Wall Thickness			
TPE - Thermoplastic Elastomer				0.254 in				0.02 in			
Outer Shield Material											
Type	Material		Material Trade Name			Coverage [%]		Nominal Diameter			
Tape	Aluminum/Polyester		Beldfoil®			100 %					
Braid	TC - Tinned Copper					85 %		0.282 in			
Outer Jacket Material											
Material				Nominal Diameter		Nominal Wall Thickness		Ripcord	Separator Material		
Industrial Grade TPE - Thermoplastic Elastomer				0.342 in		0.03 in		No	Polyester		
Electrical Characteristics											
Conductor DCR											
Max. Conductor DCR						Max. DCR Unbalance					
11 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) [%]						Typical Delay Skew		
510 ns/100m	45 ns/100m		69 %						12 ns/ft		
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]	Min. SRL (Structural Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.5 dB/100m	65.3 dB	62.3 dB	62.8 dB	59.8 dB	63.8 dB	60.8 dB	20 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	4.9 dB/100m	56.3 dB	53.3 dB	51.4 dB	48.4 dB	51.7 dB	48.7 dB	23 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	6.9 dB/100m	51.8 dB	48.8 dB	44.9 dB	41.9 dB	45.7 dB	42.7 dB	24.5 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	7.8 dB/100m	50.3 dB	47.3 dB	42.5 dB	39.5 dB	43.8 dB	40.8 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	9.9 dB/100m	47.3 dB	44.3 dB	37.4 dB	34.4 dB	39.7 dB	36.7 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	11.1 dB/100m	45.8 dB	42.8 dB	34.7 dB	31.7 dB	37.7 dB	34.7 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	12.5 dB/100m	44.3 dB	41.3 dB	21.8 dB	28.8 dB	35.8 dB	32.8 dB	24.3 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	14.1 dB/100m	42.9 dB	39.9 dB	28.8 dB	25.8 dB	33.9 dB	30.9 dB	23.6 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	20.4 dB/100m	38.4 dB	35.4 dB	18 dB	15 dB	27.8 dB	24.8 dB	21.5 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	26.4 dB/100m	35.3 dB	32.3 dB	8.9 dB	5.9 dB	23.8 dB	20.8 dB	20.1 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
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Voltage											
UL Voltage Rating											
300 V RMS											
Temperature Range											
Installation Temp Range:						-25°C To +75°C					
UL Temp Rating:						60°C					
Storage Temp Range:						-40°C To +80°C					
Operating Temp Range:						-40°C To +80°C					
Mechanical Characteristics											
Bulk Cable Weight:						60 lbs/1000ft					
Max Recommended Pulling Tension:						40 lbs					
Min Bend Radius/Minor Axis:						3.5 in					
Standards											
ISO/IEC Compliance:						Other Standards					
CPR Euroclass:						Eca					
Data Category:						Category 5e					
Applicable Environmental and Other Programs											
EU Directive Compliance:						EU Directive 2003/11/EC (BFR)					
CA Prop 65 (CJ for Wire & Cable):						Yes					
MII Order #39 (China RoHS):						Yes					
Suitability											
Suitability - Indoor:						Yes					
Suitability - Oil Resistance:						Yes					
Suitability - Outdoor:						Yes					
Suitability - Sunlight Resistance:						Yes					
Flammability, LSOH, Toxicity Testing											
C(UL) Flammability:						FT1					
UL Flammability:						UL1581 Vertical Tray (VW-1)					
UL voltage rating:						300 V RMS					
Plenum/Non-Plenum											
Plenum (Y/N):						No					
Part Number											
Variants											
Item #				Color				Footnote			
7938A B59500				Black, Matte				C			
7938A B591000				Matte Black				C			