

Physical Characteristics (Overall)										
Conductor										
AWG	Stranding	Material				Nominal Diameter			No. of Pairs	
24	Solid	BC - Bare Copper				0.02 in			4	
Conductor Count:						8				
Total Number of Pairs:						4				
Conductor Size:						24 AWG				
Insulation										
Material		Nominal Diameter				Nominal Wall Thickness				
PO - Polyolefin		0.038 in				0.009 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			Ripcord		
PVC - Polyvinyl Chloride					0.206 in			Yes		
Outer Shield Material										
Material										
Unshielded										
Outer Jacket Material										
Material				Nominal Diameter		Nominal Wall Thickness		Separator Material		
Industrial Grade PVC - Polyvinyl Chloride				0.553 in		0.045 in		Polyester		
Construction and Dimensions										
Armor										
Type of Armor			Material		Diameter over Armoring					
Interlocked Armor			Aluminum		0.463 mm					
Electrical Characteristics										
Conductor DCR										
Max. Conductor DCR					Max. DCR Unbalance					
9 Ohm/1000ft					3 %					
Capacitance										
Max. Capacitance Unbalance					Nom.Mutual Capacitance					
66 pF/ft					15 pF/ft					
Delay										
Max. Delay		Max. Delay Skew			Nominal Velocity of Propagation (VP) [%]					
510 ns/100m		25 ns/100m			70 %					
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	65.3 dB	65.3 dB	63.3 dB	63.3 dB	63.8 dB	60.8 dB	20 dB	100 ± 12 Ohm	105 ± 10 Ohm
4 MHz	4 dB/100m	56.3 dB	56.3 dB	52.3 dB	52.3 dB	51.7 dB	48.7 dB	23 dB	100 ± 12 Ohm	100 ± 10
8 MHz	5.7 dB/100m	51.8 dB	51.8 dB	46.1 dB	46.1 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 10
10 MHz	6.4 dB/100m	50.3 dB	50.3 dB	43.9 dB	43.9 dB	43.8 dB	40.8 dB	25 dB	100 ± 12 Ohm	100 ± 10
16 MHz	8.1 dB/100m	47.3 dB	47.3 dB	39.1 dB	39.1 dB	39.7 dB	36.7 dB	25 dB	100 ± 12 Ohm	100 ± 10
20 MHz	9.2 dB/100m	45.8 dB	45.8 dB	35.2 dB	35.2 dB	37.7 dB	34.7 dB	25 dB	100 ± 12 Ohm	100 ± 10
25 MHz	10.3 dB/100m	44.3 dB	44.3 dB	34.1 dB	34.1 dB	35.8 dB	32.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 10
31.25 MHz	11.6 dB/100m	42.9 dB	42.9 dB	31.3 dB	31.3 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 10
62.5 MHz	16.8 dB/100m	38.4 dB	38.4 dB	21.6 dB	21.6 dB	27.8 dB	24.8 dB	21.5 dB	100 ± 15 Ohm	100 ± 10
100 MHz	21.7 dB/100m	35.3 dB	35.3 dB	17.1 dB	17.1 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15 Ohm	
155 MHz	27.7 dB/100m	32.5 dB	32.5 dB	4.7 dB	4.7 dB	19.9 dB	16.9 dB	19 dB	100 ± 18 Ohm	
200 MHz	32 dB/100m	30.8 dB	30.8 dB	3 dB	3 dB	17.7 dB	14.7 dB	19 dB	100 ± 20 Ohm	
250 MHz	36.4 dB/100m	29.3 dB	29.3 dB	0 dB	0 dB	15.8 dB	12.8 dB	18 dB	100 ± 20 Ohm	
300 MHz	40.5 dB/100m	28.2 dB	28.2 dB	0 dB	0 dB	14.2 dB	11.2 dB	18 dB	100 ± 20 Ohm	
310 MHz	41.3 dB/100m	27.9 dB	27.9 dB			13.9 dB	10.9 dB	18 dB	100 ± 20 Ohm	
350 MHz	44.3 dB/100m	27.2 dB	27.2 dB			12.9 dB	9.9 dB	17 dB	100 ± 22 Ohm	
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 +85°C				
Operating Temp Range:						-40°C To +75°C				
Mechanical Characteristics										
Bulk Cable Weight:						101 lbs/1000ft				
Max Recommended Pulling Tension:						40 lbs				
Min Bend Radius/Minor Axis:						6.5 in				
Standards										
NEC/(UL) Specification:						CM, UL 444				
CEC/C(UL) Specification:						CMG, HL				
CPR Euroclass:						Eca				
Data Category:						Category 5e				
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 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 - Oil Resistance:						Yes				
Suitability - Sunlight Resistance:						Yes				
Flammability, LSOH, Toxicity Testing										
UL Flammability:						UL1685 UL Loading				
CSA Flammability:						FT4				
UL voltage rating:						300 V RMS				
Plenum/Non-Plenum										
Plenum (Y/N):						No				
Part Number										
Variants										
Item #						Color		Footnote		
121700A 0101000						Black		C Z		
121700A 0103000						Black		C Z		
121700A 0105000						Black		C Z		