

Physical Characteristics (Overall)											
Conductor											
AWG		Stranding		Material				No. of Pairs			
24		Solid		BC - Bare Copper				4			
Conductor Count:						8					
Total Number of Pairs:						4					
Conductor Size:						24 AWG					
Insulation											
Material			Nominal Diameter				Nominal Wall Thickness				
PO - Polyolefin			0.046 in				0.012 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											
Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D				
Tape	1	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	26	Solid				
Braid	2	TC - Tinned Copper		70 %							
Outer Jacket Material											
Material					Nominal Diameter		Nominal Wall Thickness				
Industrial Grade PVC - Polyvinyl Chloride					0.33 in		0.03 in				
Electrical Characteristics											
Conductor DCR											
Max. Conductor DCR					Max. DCR Unbalance						
9.38 Ohm/1000ft					3 %						
Capacitance											
Max. Capacitance Unbalance					Nom.Mutual Capacitance						
150 pF/ft					15 pF/ft						
Delay											
Max. Delay		Max. Delay Skew			Nominal Velocity of Propagation (VP) [%]						
538 ns/100m		45 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]	Min. SRL (Structural Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	65.3 dB	62.3 dB	63 dB	60 dB	63.8 dB	60.8 dB	20 dB	20 dB	100 ± 15 Ohm	95-110 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51 dB	49 dB	51.7 dB	48.7 dB	23.6 dB	23.6 dB	100 ± 15 Ohm	95-110
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	46 dB	43 dB	45.7 dB	42.7 dB	25.4 dB	25.4 dB	100 ± 15 Ohm	95-107
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43 dB	41 dB	43.8 dB	40.8 dB	26 dB	26 dB	100 ± 15 Ohm	95-107
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39 dB	36 dB	39.7 dB	36.7 dB	26 dB	26 dB	100 ± 15 Ohm	95-107
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.7 dB	34.7 dB	26 dB	26 dB	100 ± 15 Ohm	95-107
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	25.5 dB	25.5 dB	100 ± 15 Ohm	95-107
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31 dB	28 dB	33.9 dB	30.9 dB	25 dB	25 dB	100 ± 15 Ohm	95-107
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	22 dB	19 dB	27.8 dB	24.8 dB	23.5 dB	23.5 dB	100 ± 15 Ohm	95-107
100 MHz	22 dB/100m	35.3 dB	32.3 dB	14 dB	11 dB	23.8 dB	20.8 dB	22.5 dB	22.5 dB	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 +75°C					
Mechanical Characteristics											
Bulk Cable Weight:						50 lbs/1000ft					
Max Recommended Pulling Tension:						75 lbs					
Min Bend Radius/Minor Axis:						1.32 in					
Standards											
NEC/(UL) Specification:						CMR, CMX-Outdoor					
CEC/C(UL) Specification:						CMR					
ISO/IEC Compliance:						ISO 11801 Cat 5e					
CPR Euroclass:						Eca					
Data Category:						Category 5e					
Telecommunications Standards:						TIA-568.C.2 Category 5e					
Third Party Performance Verification:						UL verified Cat 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 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 - Oil Resistance:						Yes					
Suitability - Outdoor:						Yes					
Suitability - Sunlight Resistance:						Yes					
Flammability, LSOH, Toxicity Testing											
UL Flammability:						UL1666 Vertical 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			
7921A 0101000						Black		C			
7921A 0102000						Black		C			
7921A 0061000						Blue		C			
7921A 0021000						Red		C			
7921A 1NH1000						Teal		C			