

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		0.035 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								
Outer Shield Material										
Material										
Unshielded										
Outer Jacket Material										
Material						Nominal Diameter		Ripcord		
LSZH - Low Smoke Zero Halogen						0.23 in		Yes		
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	95-110 Ohm
4 MHz	4 dB/100m	56.3 dB	56.3 dB	52.3 dB	52.3 dB	51.7 dB	48.7 dB	23.6 dB	100 ± 12 Ohm	95-110
8 MHz	5.7 dB/100m	51.8 dB	51.8 dB	46.1 dB	46.1 dB	45.7 dB	42.7 dB	25.4 dB	100 ± 12 Ohm	95-107
10 MHz	6.4 dB/100m	50.3 dB	50.3 dB	43.9 dB	43.9 dB	43.8 dB	40.8 dB	26 dB	100 ± 12 Ohm	95-107
16 MHz	8.1 dB/100m	47.3 dB	47.3 dB	39.1 dB	39.1 dB	39.7 dB	36.7 dB	26 dB	100 ± 12 Ohm	95-107
20 MHz	9.2 dB/100m	45.8 dB	45.8 dB	35.2 dB	35.2 dB	37.7 dB	34.7 dB	26 dB	100 ± 12 Ohm	95-107
25 MHz	10.3 dB/100m	44.3 dB	44.3 dB	34.1 dB	34.1 dB	35.8 dB	32.8 dB	25.5 dB	100 ± 15 Ohm	95-107
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	25 dB	100 ± 15 Ohm	95-107
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	23.5 dB	100 ± 15 Ohm	95-107
100 MHz	21.7 dB/100m	35.3 dB	35.3 dB	17.1 dB	17.1 dB	23.8 dB	20.8 dB	22.5 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:						+5°C To +75°C				
UL Temp Rating:						60°C				
Storage Temp Range:						-10°C To +75°C				
Operating Temp Range:						-10°C To +75°C				
Mechanical Characteristics										
Bulk Cable Weight:						19 lbs/1000ft				
Max Recommended Pulling Tension:						40 lbs				
Min Bend Radius/Minor Axis:						0.25 in				
Standards										
NEC/(UL) Specification:						CM, UL 444				
CEC/C(UL) Specification:						CM				
ISO/IEC Compliance:						ISO/IEC 11801 Cat 5e				
CPR Euroclass:						Eca				
Data Category:						Category 5e				
Telecommunications Standards:						TIA-568.C.2 Category 5e, NEMA WC-63.1				
Other Specification:						EtherNet/IP™				
Third Party Performance Verification:						UL Verifield 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 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:						No				
Suitability - Outdoor:						Yes				
Suitability - Sunlight Resistance:						Yes				
Flammability, LSOH, Toxicity Testing										
UL Flammability:						UL1581 Vertical Tray,UL1685 Vertical Tray Flame Test				
CSA Flammability:						FT1				
UL voltage rating:						300 V RMS				
Plenum/Non-Plenum										
Plenum (Y/N):						No				
Part Number										
Variants										
Item #						Color		Footnote		
7935A 0101000						Black		C		
7935A 0102000						Black		C		