

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 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											
Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D					
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm					
Outer Jacket Material											
Material					Nominal Diameter			Ripcord			
LSZH - Low Smoke Zero Halogen					0.265 in			No			
Electrical Characteristics											
Conductor DCR											
Max. Conductor DCR					Max. DCR Unbalance						
9.38 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) [%]							
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	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51 dB	49 dB	51.7 dB	48.7 dB	23 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	46 dB	43 dB	45.7 dB	42.7 dB	24.5 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43 dB	41 dB	43.8 dB	40.8 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39 dB	36 dB	39.7 dB	36.7 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.7 dB	34.7 dB	25 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31 dB	28 dB	33.9 dB	30.9 dB	23.6 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	22 dB	19 dB	27.8 dB	24.8 dB	21.5 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	22 dB/100m	35.3 dB	32.3 dB	14 dB	11 dB	23.8 dB	20.8 dB	20.1 dB	20.1 dB	100 ± 15 Ohm	
200 MHz	32.4 dB/100m		27.8 dB		1 dB		14.7 dB		15 dB	100 ± 25 Ohm	
1 MHz											
4 MHz											
8 MHz											
10 MHz											
16 MHz											
20 MHz											
25 MHz											
31.25 MHz											
62.5 MHz											
100 MHz											
200 MHz											
▶											
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:						34 lbs/1000ft					
Max Recommended Pulling Tension:						40 lbs					
Min Bend Radius/Minor Axis:						0.5 in					
Standards											
NEC/(UL) Specification:						CM, UL 444					
CEC/C(UL) Specification:						CMG					
ISO/IEC Compliance:						ISO/IEC 11801 Cat 5e					
CPR Euroclass:						Eca					
Data Category:						Category 5e					
Telecommunications Standards:						TIA-5687-C.2 Category 5e, NMEA WC-63.1					
Third Party Performance Verification:						UL Verified to 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:						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			
7936A 0101000						Black		C			