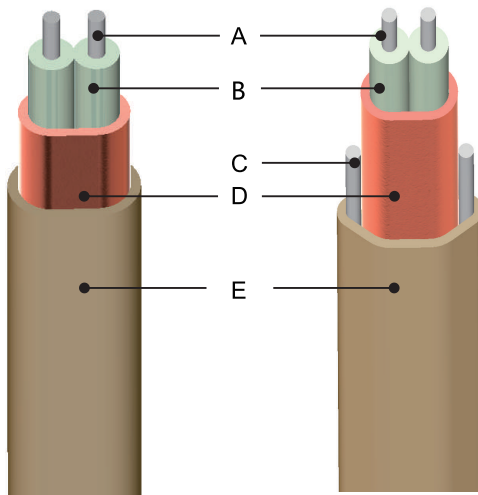


High Speed Twinax Cables

92 OHMS With Drain | Without Drain

For high-performance computing, routers, storage and switches, cables that can efficiently carry large volumes of data are critical. LINCOS High Speed Twinax Cables have typical characteristics of low attenuation and low time delay, and can maintain highspeed signal transmission up to 50GHz. LINCOS offers optional cables without drain wire and double drain wire.

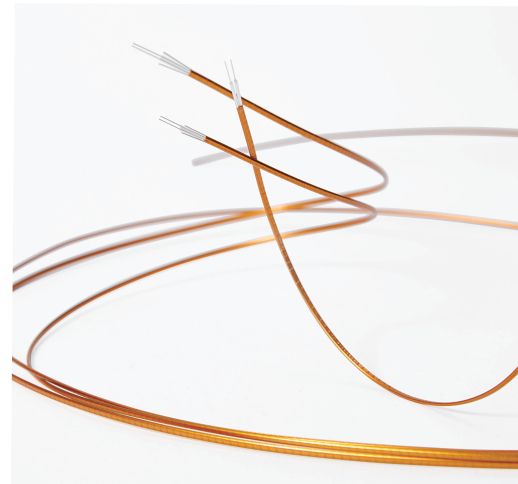


Cable Construction

Item	Construction	Material	
		Without Drain	With Drain
A	Conductor	Solid SPC	Solid SPC
B	Dielectric	FEP, Light Green	FEP, Light Green
C	Drain wire	/	SPC
D	Shield	CU tape	CU tape
E	Jacket	Mylar, Clear	Mylar, Clear

Standards Compliance

- ANSI/NEMA WC 27500 Performance Requirements: Environmental Testing, Jacket and Marking
- FAR Part 25, Appendix F, Part I and MIL-W-22759: Flame Resistance
- FAR Part 25, Appendix F, Part V: Smoke Density



Cable Parameters

Item	Specification
Impedance(Ω)	92
Velocity of propagation(%)	70
Delay(ns/m)	4.8
Capacitance(pF/m)	48
Withstand voltage(Vrms)	1500 (Conductor to conductor)
	1000 (Conductor and shield)
Operating temperature($^{\circ}\text{C}$)	-55~150

Features and Advantages

- High transmission rate
- High reliability
- Strong anti-interference ability
- Low transmission error
- Long transmission distance

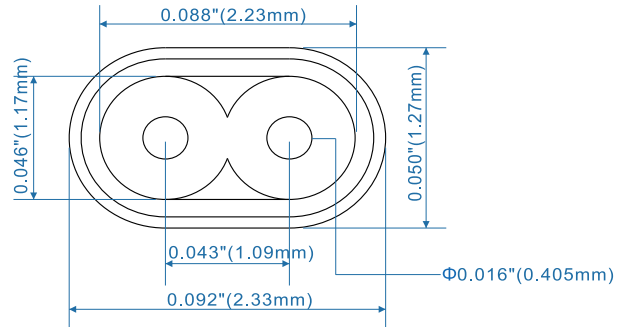
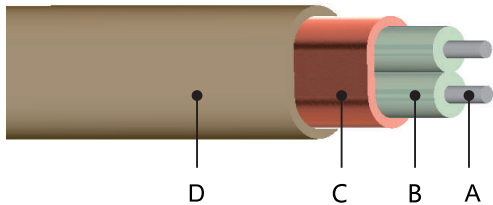
Typical Applications

- Digital Video System
- Avionics Network
- Ethernet System
- High-speed Bus
- Radar
- Satellite Communication

High Speed Twinax Cable

92 OHMS Without Drain | Suck-out free up to 50 GHz

P/N: 17330126-03

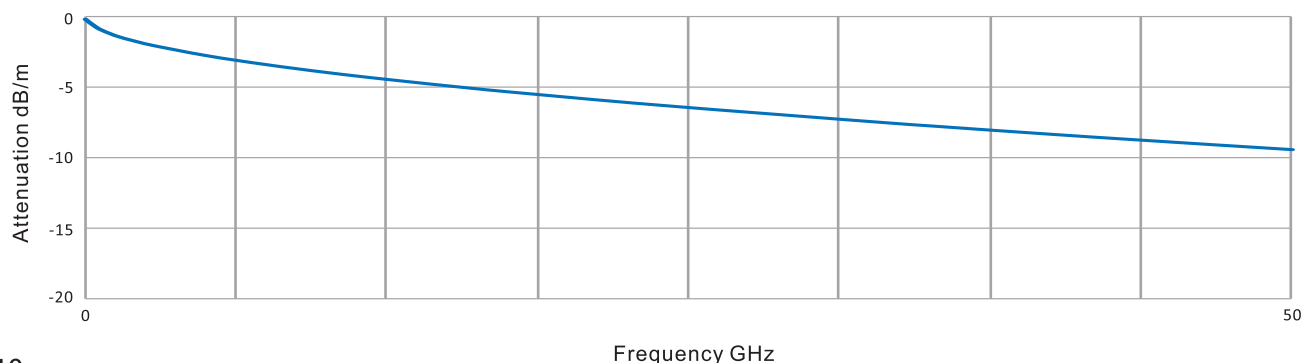


Cable Construction		
Item	Construction	Material
A	Conductor	26AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer Shield	CU tape
D	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	5.34 lbs/1000ft (7.4 kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.252" (6.4mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.14(3.73)
	14	1.19(3.90)
	19	1.48(4.87)
	26.56	1.83(5.99)
	28	1.91(6.28)
	32	2.12(6.96)
	40	2.52(8.25)
	50	2.96(9.71)

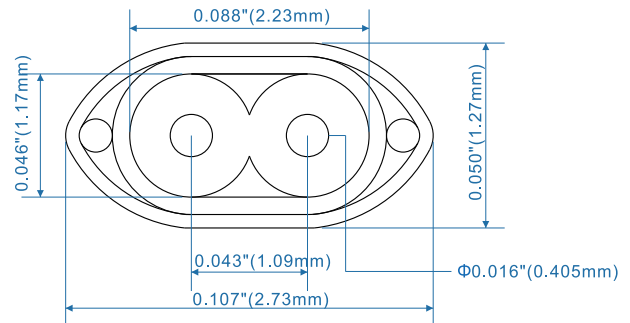
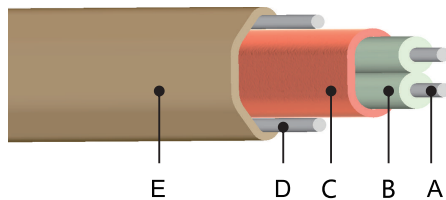
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92OHMS With Drain Suck-out free up to 40 GHz

P/N: 17330126-04

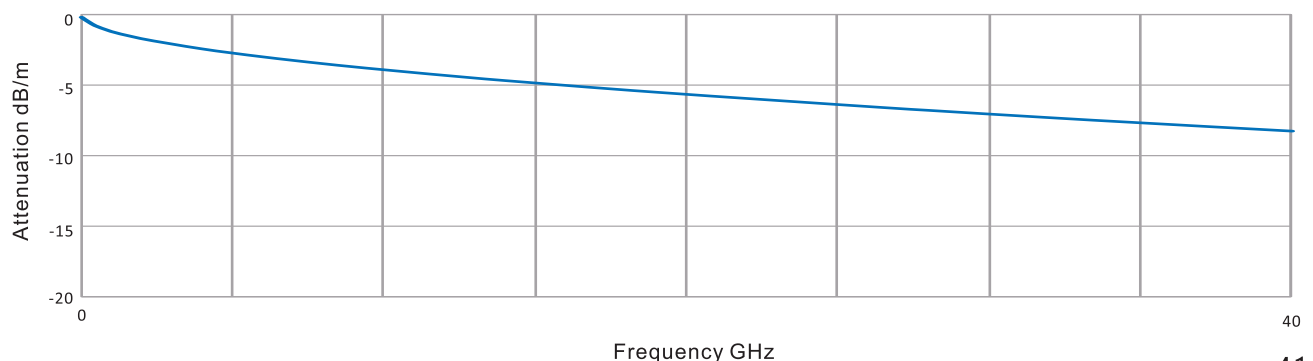


Cable Construction		
Item	Construction	Material
A	Conductor	26AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer shield	CU tape
D	Drain wire	32AWG solid SPC
E	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	5.77 lbs/1000ft (8.0 kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.252" (6.4 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.14(3.73)
	14	1.19(3.90)
	19	1.48(4.87)
	26.56	1.83(5.99)
	28	1.91(6.28)
	32	2.12(6.96)
	40	2.52(8.25)

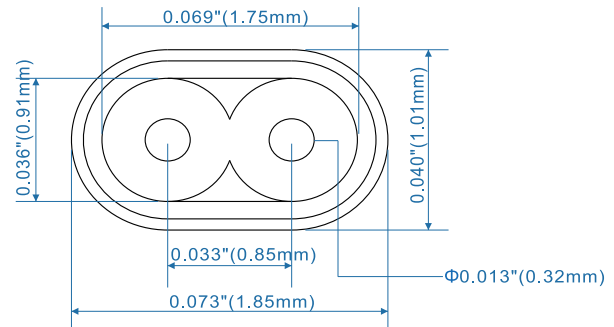
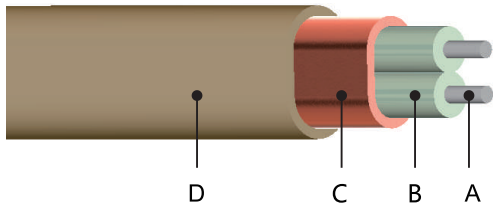
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS Without Drain | Suck-out free up to 50 GHz

P/N: 17330128-03

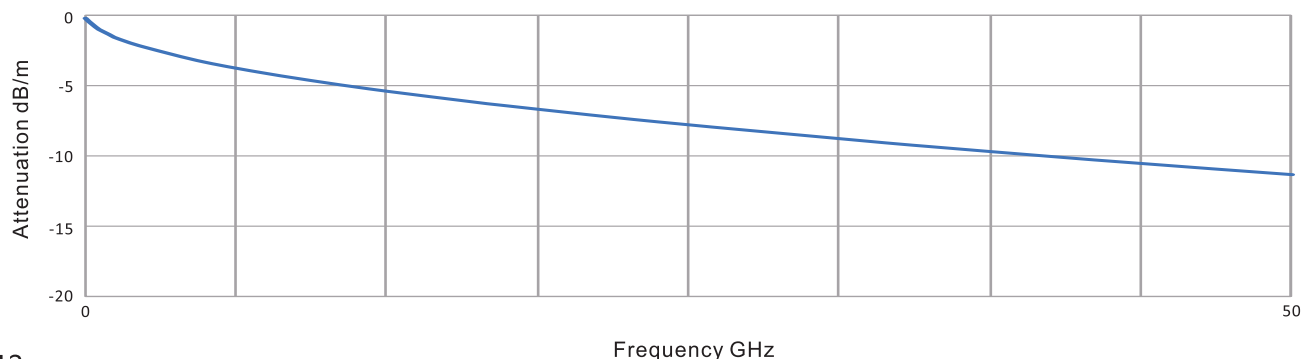


Cable Construction		
Item	Construction	Material
A	Conductor	28AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer Shield	CU tape
D	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	3.24 lbs/1000ft (4.50kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.200" (5.1 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.41(4.62)
	14	1.47(4.83)
	19	1.84(6.02)
	26.56	2.25(7.38)
	28	2.36(7.74)
	32	2.61(8.57)
	40	3.09(10.13)
	50	3.61(11.85)

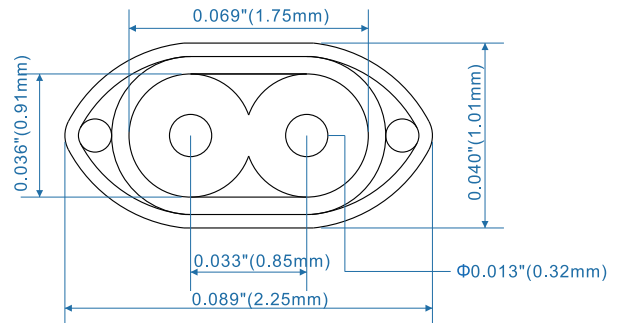
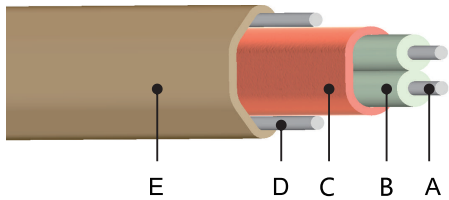
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS With Dual Drain | Suck-out free up to 40 GHz

P/N: 17330128-04

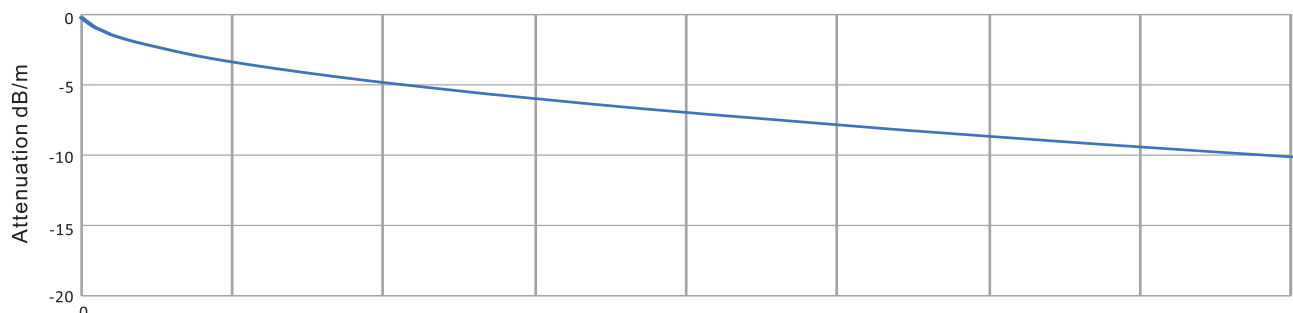


Cable Construction		
Item	Construction	Material
A	Conductor	28AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer shield	CU tape
D	Drain wire	32AWG solid SPC
E	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	3.68 lbs/1000ft (5.10kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.200" (5.1 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.41(4.62)
	14	1.47(4.83)
	19	1.84(6.02)
	26.56	2.25(7.38)
	28	2.36(7.74)
	32	2.61(8.57)
	40	3.09(10.13)

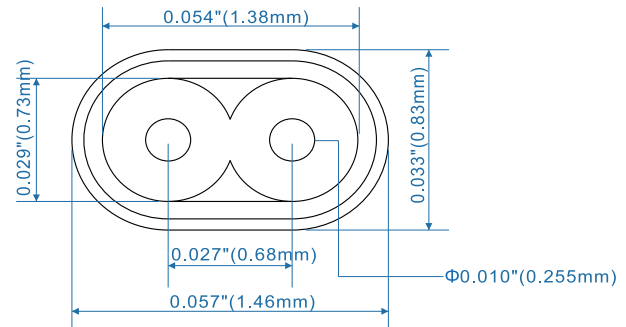
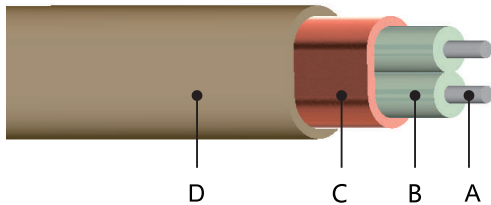
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS Without Drain | Suck-out free up to 50 GHz

P/N: 17330130-03

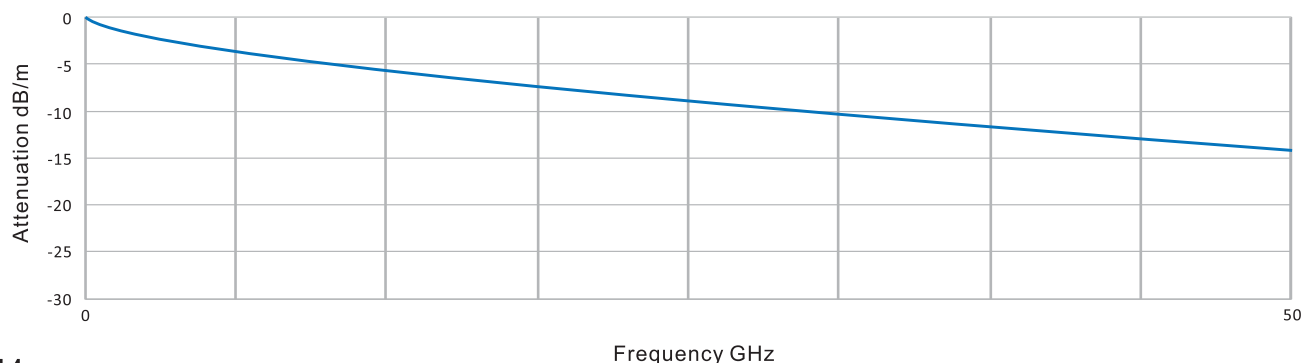


Cable Construction		
Item	Construction	Material
A	Conductor	30AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer Shield	CU tape
D	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	2.20lbs/1000ft (3.05 kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.165" (4.2 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.75(5.75)
	14	1.83(6.00)
	19	2.27(7.46)
	26.56	2.79(9.14)
	28	2.92(9.58)
	32	3.23(10.59)
	40	3.81(12.50)
	50	4.41(14.45)

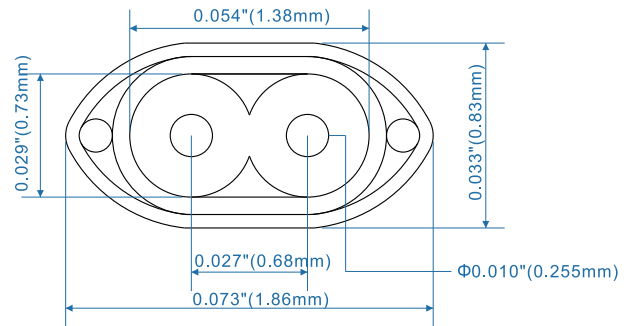
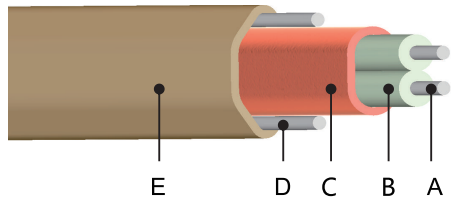
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS With Dual Drain | Suck-out free up to 40 GHz

P/N: 17330130-04

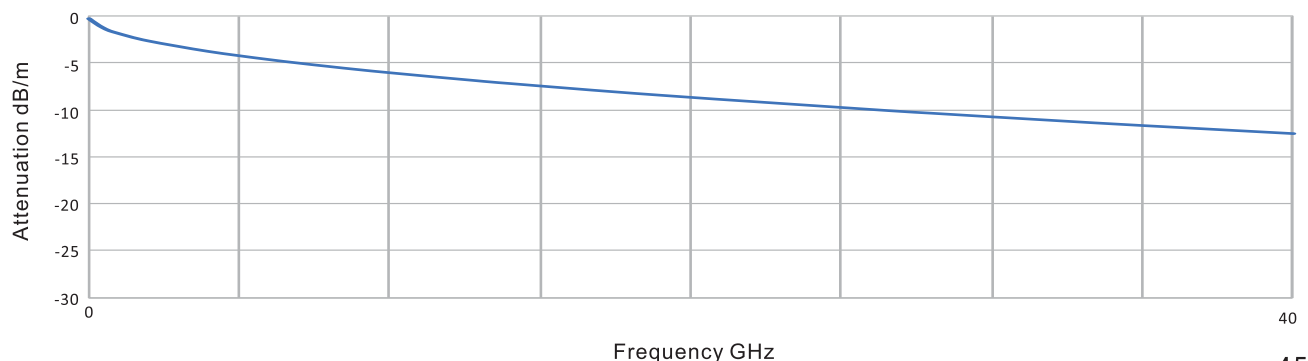


Cable Construction		
Item	Construction	Material
A	Conductor	30AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer shield	CU tape
D	Drain wire	32AWG solid SPC
E	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	2.63 lbs/1000ft (3.65kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.165" (4.2 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	1.75(5.75)
	14	1.83(6.00)
	19	2.27(7.46)
	26.56	2.79(9.14)
	28	2.92(9.58)
	32	3.23(10.59)
	40	3.81(12.50)

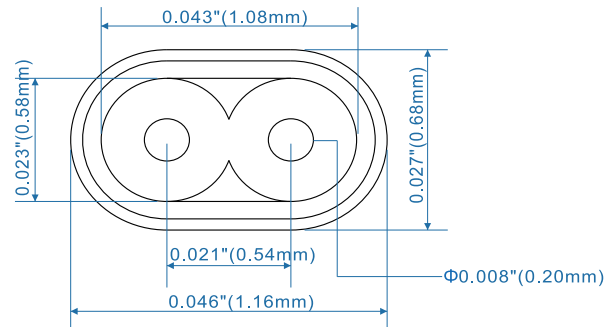
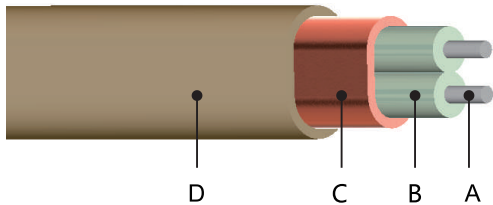
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS Without Drain | Suck-out free up to 50 GHz

P/N: 17330132-03

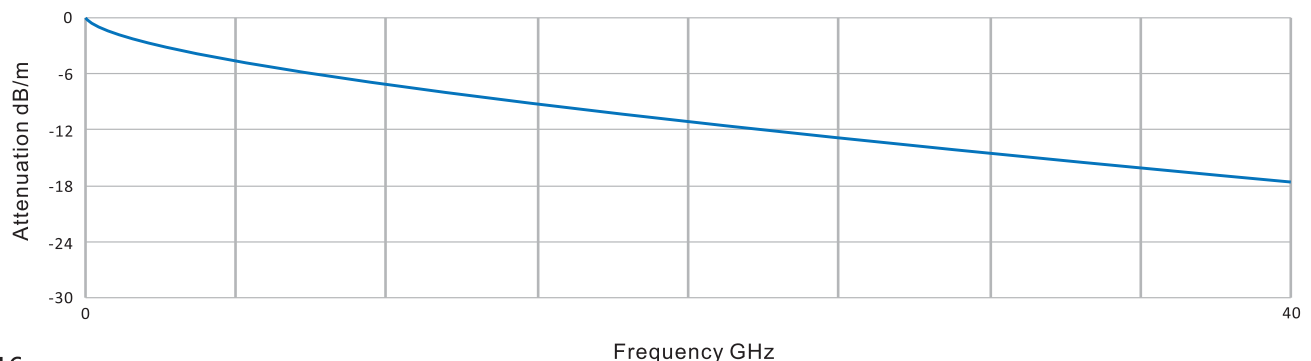


Cable Construction		
Item	Construction	Material
A	Conductor	32AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer Shield	CU tape
D	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	1.48lbs/1000ft (2.05 kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.134" (3.4 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	2.19(7.17)
	14	2.28(7.48)
	19	2.83(9.29)
	26.56	3.46(11.35)
	28	3.63(11.91)
	32	4.01(13.15)
	40	4.73(15.50)
	50	5.42(17.78)

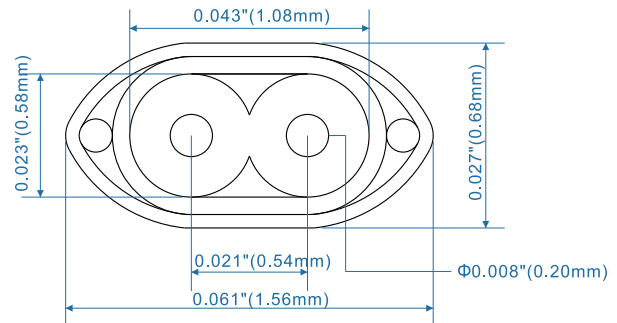
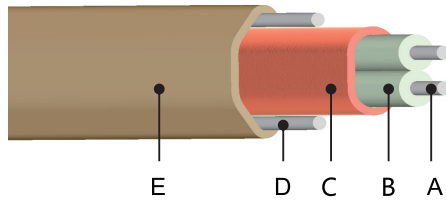
Attenuation (nominal values at +25°C, sea level)



High Speed Twinax Cable

92 OHMS With Dual Drain | Suck-out free up to 40 GHz

P/N: 17330132-04



Cable Construction		
Item	Construction	Material
A	Conductor	32AWG solid SPC
B	Dielectric	FEP, Light green
C	Outer shield	CU tape
D	Drain wire	32AWG solid SPC
E	Jacket	Mylar, Clear

Environmental&Mechanical Properties	
Weight	1.91lbs/1000ft (2.65 kg/km)
Operating Temperature	-55°C~150°C
Min. Bend Radius	0.134" (3.4 mm)

Electrical Properties		
Impedance	92±5 Ω	
Capacitance	14.6pF/ft (48 pF/m)	
Velocity	70%	
Time Delay	1.46 ns/ft (4.8 ns/m)	
Withstand voltage(Vrms)	1500 (Conductor to conductor)	
	1000 (Conductor and shield)	
Typical Attenuation (+25°C Environment; Sea level)	Frequency Ghz	Attenuation dB/ft(m)
	12.89	2.19(7.17)
	14	2.28(7.48)
	19	2.83(9.29)
	26.56	3.46(11.35)
	28	3.63(11.91)
	32	4.01(13.15)
	40	4.73(15.50)

Attenuation (nominal values at +25°C, sea level)

