

Matched Impedance

Ribbon Cable



PRODUCT DESCRIPTION

FEP (Fluorinated Ethylene Propylene) insulated ribbon cable extruded to match specific system impedance with typical speeds < 1 Ghz and risetimes > 1 ns.

- Low Cost Alternative to Coax & Twinax
- High Density Cable
- Low Dielectric FEP Insulation
- Controlled Impedance Cable
- Low Crosstalk Cable
- Solder Resistant Insulation
- Low Capacitance Cable

SPECIFICATIONS

Matched Impedance				
Typical Impedance	Signal Pitch	Signal Count	Wire Type	Product
50Ω	1.27mm/.050" ±0.05mm/0.002"	10 to 64	Signal: 30 AWG, Solid, Silver Plated Copper	C50-01-**-N5
			Ground: 28 AWG, Solid, Silver Plated Copper	
75Ω	1.27mm/.050" ±0.05mm/0.002"		Signal: 32 AWG, Solid, Silver Plated Copper	C75-01-**-N4
			Ground: 30 AWG, Solid, Silver Plated Copper	
90Ω	1.27mm/.050" ±0.05mm/0.002"		Signal: 32 AWG, Solid, Silver Plated Copper	C90-01-**-N5
			Ground: 32 AWG, Solid, Silver Plated Copper	
95Ω	1.27mm/.050" ±0.05mm/0.002"		Signal: 33 AWG, Solid, Silver Plated Copper	C95-01-**-N1
			Ground: 33 AWG, Solid, Silver Plated Copper	

See specific details for 50Ω and 75Ω matched impedance cables on following pages



Temp-Flex designs and manufactures specialty insulated wire & cable for the medical, industrial, military & aerospace markets. We can custom design and manufacture your medical wire, coil, twisted pair, high speed coaxial cable, flexible microwave cable, flat ribbon cable, IDC cable, multi-flex cable, matched impedance cable, low inductance power transmission cable and a variety of other wire and cable constructions.

Matched Impedance 50Ω

Ribbon Cable



PRODUCT DESCRIPTION

FEP (Fluorinated Ethylene Propylene) insulated ribbon cable extruded to match specific system impedance with typical speeds < 1 Ghz and risetimes > 1 ns.

- Low Cost Alternative to Coax & Twinax
- High Density Cable
- Low Dielectric FEP Insulation
- Controlled Impedance Cable
- Low Crosstalk Cable
- Solder Resistant Insulation
- Low Capacitance Cable
- UL Style 2445

SPECIFICATIONS

Matched Impedance 50Ω			
Parameters	Units		
Conductor Details			
Conductor Type	Signal 30 AWG, Solid silver plated copper	Grounds 28 AWG, Solid silver plated copper	
Insulation	FEP		
Number of Signals	10 to 64		
Color	Natural with Blue Polarity Strip (standard)		
Electrical Specifications			
Impedance*	Ω	50	
Capacitance*	pF/ft	28.0	
Inductance*	μH	0.07	
Crosstalk %*	At 5 NS rise time and 10MHz Pulse	Near: 1.2	Far: 1.2
Voltage Rating	VRMS	100	
Proagation Delay*	ns/ft	1.4	
Conductor Resistance	Ω/1000 ft. max at 20°C	Signal: 104	Grounds: 65.3
Insulation resistance	MΩ	500/1000ft	
Dielectric Withstanding Voltage	VRMS	2000	
Mechanical Specification			
Operating Temperature	°C	-55 to 200	

* Measured using G-S-G, all grounds commoned



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Matched Impedance 75Ω

Ribbon Cable



PRODUCT DESCRIPTION

FEP (Fluorinated Ethylene Propylene) insulated ribbon cable extruded to match specific system impedance with typical speeds < 1 Ghz and risetimes > 1 ns.

- Low Cost Alternative to Coax & Twinax
- High Density Cable
- Low Dielectric FEP Insulation
- Controlled Impedance Cable
- Low Crosstalk Cable
- Solder Resistant Insulation
- Low Capacitance Cable
- UL Style 2445

SPECIFICATIONS

Matched Impedance 75Ω			
Parameters	Units		
Conductor Details			
Conductor Type	Signal 32 AWG, Solid silver plated copper	Grounds 30 AWG, Solid silver plated copper	
Insulation	FEP		
Number of Signals	10 to 64		
Color	Natural with Blue Polarity Strip (standard)		
Electrical Specifications			
Impedance*	Ω	75	
Capacitance*	pF/ft	17.8	
Inductance*	μH	.10	
Crosstalk %*	At 5 NS rise time and 10MHz Pulse	Near: 1.5	Far: 1.4
Voltage Rating	VRMS	100	
Propagation Delay*	ns/ft	1.4	
Conductor Resistance	Ω/1000 ft. max at 20°C	Signal: 162	Grounds: 104
Insulation resistance	MΩ	500/1000ft	
Dielectric Withstanding Voltage	VRMS	2000	
Mechanical Specification			
Operating Temperature	°C	-55 to 200	

* Measured using G-S-G, all grounds commoned



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RF Cable